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Reactor-Specific Spent Fuel Discharge Projections: 1985 to 2020

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September 1986

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ABSTRACT

The creation of four spent-fuel data bases that contain information on the projected amounts of spent fuel to be discharged from U.S. commercial nuclear reactors through the year 2020 is described. The data bases contain detailed spent-fuel information from existing, planned, and projected pressurized water reactors (PWR) and boiling water reactors (BWR). The projections are based on individual reactor information supplied by the U.S. reactor owners. The basic information is adjusted to conform to Energy Information Agency (EIA) forecasts for nuclear installed capacity, generation, and spent fuel discharged. The EIA cases considered are: 1) No New Orders with Extended Burnup, 2) No New Orders with Constant Burnup, 3) Middle Case with Extended Burnup, and 4) Middle Case with Constant Burnup. Detailed, by-reactor tables are provided for annual discharged amounts of spent fuel, for storage requirements assuming maximum-at-reactor storage, and for storage requirements assuming maximum-at-reactor plus intra-utility transshipment of spent fuel.

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1.0 INTRODUCTION

Under the provisions of the Nuclear Waste Policy Act of 1982 (NWPA), the Department of Energy (DOE) is responsible for the management and ultimate, permanent disposal of the civilian radioactive waste resulting from commercial nuclear power plant operations in the U.S. The Office of Civilian Radioactive Waste Management (OCRWM) has been established within the DOE to plan for and carry out this responsibility.

The greatest portion of the radioactive waste covered under this government responsibility will be spent nuclear fuel discharged from commercial nuclear power plants. Because most of the spent fuel that will ultimately require disposal has not yet been generated, planning for the management and disposal of this spent fuel must be largely based on projections of future discharges from commercial nuclear power plants.

The DOE Energy Information Administration (EIA) annually publishes projections of nuclear energy generation on an overall, industry composite basis (Mayes et al. 1985). The EIA also publishes projections of spent-fuel discharges from commercial nuclear plants that are keyed to each nuclear energy generation projection (Moden et al. 1985). These EIA energy projections provide several scenarios that represent different assumptions about the future growth of nuclear energy capacity in the U.S. Multiple scenarios allow analysis of the sensitivity of results and decisions to varying assumptions.

The OCRWM plans for management and disposal of spent fuel are based on the EIA nuclear energy projections. However, the EIA projections do not contain the specific reactor-by-reactor information that is needed to perform detailed analyses of relevant issues such as waste system logistics, requirements for interim storage of spent fuel, or anticipated variations in the physical characteristics of the spent fuel to be received for disposal. Therefore, to provide a more detailed basis for such analyses, a study was performed in 1985 to develop detailed reactor-specific spent fuel discharge projections corresponding to the EIA nuclear energy growth projections (Heeb, Libby and Holter 1985). The present study is an update of the 1985 study.

In the 1985 study, the basic source of data used to develop reactor-specific information was the Spent Fuel Data Base (SFDB) maintained by Pacific Northwest Laboratory (PNL) for the DOE Commercial Spent Fuel Management (CSFM) Program. The information in this data base is supplied directly by the nuclear utilities. The 1985 SFDB consists of detailed historical data (inclusive to 1984) and projected data on reactor operation, spent-fuel discharges and shipments, and spent-fuel storage and handling capabilities. The SFDB is based on utility information collected by EIA and supplied to PNL for the production of new detailed data bases that are adjusted to meet EIA projections of nuclear capacity, energy generation, and spent-fuel discharges.

The CSFM Program uses the adjusted data bases for a number of planning purposes, including the preparation of annual projections of future requirements for additional spent-fuel storage capacity (DOE 1985a). The data base also provides the basic information on spent fuel for inclusion in the DOE Integrated Data Base (IDB) maintained by Oak Ridge National Laboratory (DOE 1985b).

Two 1985 EIA nuclear growth scenarios were chosen as the bases for developing the 1985 reactor-specific spent fuel discharge projections: the Middle Case and the No New Orders Case. The Middle Case was previously selected by the OCRWM as the base case for waste management planning purposes. The No New Orders Case was included to provide an additional data set that could be used to analyze the sensitivity of analytical results and management decisions to possible reductions in nuclear growth in the U.S.

The No New Orders Case includes only nuclear power plants that are currently operating and a subset of the plants currently under construction. EIA assumes that some of the plants currently under construction will not be completed, and that others will be delayed beyond official utility startup estimates. The Middle Case includes additional power plants, not currently on order, coming on line starting in 2001 to provide sufficient power generation capacity to correspond to the overall nuclear energy production rates in the EIA projections. In addition, for plants now under construction, startup dates are earlier and the assumed number of canceled plants is lower than for the No New Orders Case.

In making projections of the amount of spent fuel discharged, the EIA considers cases of extended and constant burnup. In the Middle Case, it is assumed that by 1993 the reactors will extend their current burnups by 30 percent. The discharge burnups are assumed to be constant beyond 1993. However, extended burnup is the EIA base case for 1985. A Middle Case with constant burnup was also considered. In this case, the burnup level was maintained at the 1979 to 1984 historical levels through 2020. Thus, at projected annual energy generations forecasted by the Middle Case, two spent-fuel discharge projections are made that correspond to the constant and extended burnup assumptions (Moden et al. 1985, Table D.2). A similar set of assumptions for burnup are made for the energy generation forecasted in the No New Orders Case (Moden et al. 1985, Table D.2).

The 1984 spent fuel data base containing utility-supplied information was altered to produce four adjusted data bases. The aggregate annual energy production and spent-fuel discharge on these data bases agree with:

1. No New Orders Capacity and Energy, Extended Burnup Discharges (NNOE)
2. No New Orders Capacity and Energy, Constant Burnup Discharges (NNOC)
3. Middle Case Capacity and Energy, Extended Burnup Discharges (MCE)
4. Middle Case Capacity and Energy, Constant Burnup Discharges (MCC)

In order to meet the installed-capacity and energy-generation requirements beyond the year 2000 for the Middle Case, it was necessary to add generic power plants to the population of named reactors. Reactor types consistent with currently existing power plants were chosen to represent these generic power plants. This permitted the detailed information for the generic power plants to be obtained from the SFDB in the same manner as for the currently existing or planned reactors. Each of the generic reactors was assigned to a specific federal energy region.

2.0 SUMMARY

The projected discharge burnups on the 1985 utility spent fuel data base, which contains historical information complete through 1984 plus projections from 1985, have been adjusted from utility-supplied values to produce agreement with the EIA nuclear energy generation and spent-fuel discharge forecasts.

Four data bases were produced that correspond to the following EIA cases:

1. No New Orders Capacity and Energy, Extended Burnup Discharges (NNOE)
2. No New Orders Capacity and Energy, Constant Burnup Discharges (NNOC)
3. Middle Case Capacity and Energy, Extended Burnup Discharges (MCE)
4. Middle Case Capacity and Energy, Constant Burnup Discharges (MCC)

The method developed to adjust the data allows the detail of the utility data base to remain intact, while the over-all nuclear generation and discharged amount are changed to match any uniform nuclear generation forecast. The adjustment procedure alters burnup to meet targets of annual energy production and amounts of spent fuel discharged.

The method used in developing the reactor-specific spent fuel discharge projections and the resulting data bases themselves are described in this report. Discussions of the method cover the following topics:

- a description of the data base
- data base adjustment procedures
- addition of generic power reactors
- accuracy of the data base adjustments.

The accumulated spent-fuel inventory for each of the four cases analyzed, and the original utility inventory projection are presented in Chapter 4.0.

Reactor-specific discharge and storage requirements for the Middle Case with extended burnup are presented in Appendix A. Table A.1 gives startup and shutdown dates for reactors in three scenarios: the Utilities Case, the Middle Case and the No New Orders Case. Table A.2 gives names and startup dates for the Middle Case generic reactors. Tables A.3 through A.8 show reactor-specific projections for the Middle Case with extended burnup. Tables A.3 and A.4 show the annual and cumulative discharges respectively. Tables A.5 through A.8 display the annual and cumulative storage requirements for the maximum

at-reactor (AR) storage assumption, and for the maximum transshipment assumption. These compare directly to the storage requirements from the utility-supplied data, which were reported by DOE (1985a).

The reactor-specific spent-fuel discharge projections contained in this report cover the period from 1985 through 2020 and include a total cumulative spent-fuel inventory of nearly 127,000 MTU for the Middle Case, Constant Burnup to 74,000 MTU for the No New Orders, Extended Burnup Case. A description of the method used to derive the data and the results is included in Chapter 3.0. Detailed information that supports the discussions in the main body of the report, including descriptions of the capacity and fuel-discharge projections, are included in Appendix A.

3.0 DISCUSSION

The 1985 utility spent fuel data base (Utility SFDB) is a compendium of information on U.S. commercial power reactor spent fuel and other reactor-specific information. It is based on data provided by the utility owners and represents their estimate of the amounts and characteristics of spent-fuel discharges. Electrical energy generation may be derived from the spent-fuel quantities and spent-fuel exposure contained in the data base.

3.1 DATA BASE DESCRIPTION

The SFDB contains a file for each reactor. The first portion of the file consists of time-independent information such as the location, various power ratings, dates of startup and final shutdown, and detailed information on fuel stored in the reactor's pool(s). The second portion consists of the historical record of fuel discharges by batch or sub-batch with discharge exposure range, number of assemblies, and the uranium mass for each batch. The second and succeeding portions are organized by operating cycle, that is, by the period between successive discharges. The third portion of the Utility SFDB contains projected discharge information for 1985 and beyond.

The electrical energy generation implicit in the Utility SFDB is entirely independent of the nuclear energy generation forecasts made by EIA. The Utility SFDB was modified to be consistent with these nuclear energy generation and discharged-fuel forecasts. The technical steps involved in adjusting the Utility SFDB to conform to the EIA projections are described in this section. The principal requirement of the adjustment was to retain as much of the detailed utility estimates of exposure, plant capacity factor, and discharge schedules as possible, while matching the EIA electrical energy generation and discharge forecasts.

3.2 DATA BASE ADJUSTMENT PROCEDURE

The steps in the adjustment procedure are shown in Figure 3.1. The adjustment process required construction of four major processors, each of which is described in the sections that follow. The adjustment process is

FIGURE 3.1. Data Base Adjustment Procedure Flow Diagram

entirely concerned with the time beyond 1984, since historical information is left unchanged by the adjustment process. The adjustment steps are numbered in the Figure 3.1 flow chart.

3.2.1 Step 1 - Shift Utility Data Base Startup and Shutdown Dates

EIA operable dates published by Mayes et al. (1985) for reactors starting up from 1984 to 2020 (pipeline reactors) were checked against the utility-supplied start-up dates on the SFDB. No New Orders Case dates were shifted five months later than the EIA operable date. Middle Case startup dates were shifted six months prior to the EIA operable date. These different startup date adjustments were required to match the EIA installed nuclear capacity forecast. The start-up date for each reactor is shown in Appendix A, Table A.1.

The utility-supplied pattern of discharges was displaced in time by the same adjustment time span used in shifting the startup dates. The shutdown dates were adjusted to agree with the EIA data. The full core was assumed to be discharged in the year following the last year of energy generation, in accordance with EIA ground rules. Middle Case generic reactors were added to match installed nuclear generation capacity. The installed capacity match was accomplished at the end of Step 1.

3.2.2 Step 2 - Calculate Electrical Energy Generation from the Utility SFDB

The cycle energy generation from the Utility SFDB was calculated by adding the product of discharge exposure and mass of the discharged batch for each batch discharged from the cycle. For reactors at equilibrium, the energy generated by the discharged fuel during its residence in the core is equal to the energy generated by the entire core during the discharge cycle. To illustrate, for a three-batch core-fuel-management plan at equilibrium, each in-core fuel batch generates a fixed fraction of core power during equilibrium operation: F1, F2, F3. If E is the energy generation during each equilibrium cycle, the energy generated by the batch scheduled for discharge, ED, would be the sum of the energy generated by the discharge batch during each of the three cycles of residence:

$$ED = E \times F1 + E \times F2 + E \times F3 \quad (3.1)$$

By factoring out E, the equation is expressed as follows:

$$ED = E \times (F1 + F2 + F3) \quad (3.2)$$

Since $F1 + F2 + F3 = 1.0$ by definition, the discharge energy equals the energy generated during each equilibrium cycle:

$$ED = E \quad (3.3)$$

This conclusion would be true for any core equilibrium replacement fraction. For reactors just starting up, the ratio of first-cycle energy generation to

first-discharge batch energy generation will not be unity, but will approximate the reciprocal of the core fraction discharged if power sharing by in-core batches is proportional to batch size. Thus for one-third core replacement, the ratio of first cycle energy to the energy generated by the fuel in the first discharge would approximate three. The second discharge ratio would approximate one half of this, or 1.5. The third discharge ratio would approximate unity and would remain unity for all subsequent discharges.

In actual practice power sharing between in-core fuel batches is not exactly equitable, and fuel management plans do not specify that the same fraction of the core will be replaced for every refueling outage. However, when large numbers of reactors are involved and interest is primarily in over-all energy generation over several years during which only a small fraction of the total energy generation is from plants not at equilibrium, average nonequilibrium ratios of cycle energy to batch energy may be approximated with sufficient accuracy. Detailed fuel management plans for several reactors were analyzed to obtain a more realistic ratio of cycle to batch energy. The ratios of cycle energy to batch energy were calculated and the results are summarized in the Table 3.1. The energy of a given cycle is calculated by adding the product of exposure and tonnage discharged over all batches from the cycle, and multiplying the resulting sum by the appropriate factor from Table 3.1.

The shifted SFDB energy is calculated for each plant in each cycle. The cycle energies are then allocated to each year according to the number of months in the year for that cycle. The annual energy generation projected by EIA is then compared to the annual sum of energy generation from the shifted SFDB. An annual correction factor equal to the EIA energy generation divided by the SFDB energy is then calculated. The target annual energies are then used in the final adjustment process.

TABLE 3.1. Cycle to Batch Energy Ratio by Cycle

	<u>First</u>	<u>Second</u>	<u>Third</u>	<u>Fourth</u>	<u>Equilibrium</u>
PWR	2.857	1.266	1.095	1.073	1.000
BWR	3.663	1.404	1.111	1.058	1.000

3.2.3 Step 3 - Adjustment of Utility Discharges to Match EIA Energy Projections

The projected SFDB discharge amounts are modified to be consistent with the target energies. The adjustment assumptions were that no discharge batches of less than 11 assemblies would be modified, and that a slight adjustment to the utility-supplied exposure would be made to preserve an integral number of discharge assemblies in the batches of 11 or more assemblies. Adjusting only batches greater than ten assemblies assures that no exposure will be adjusted by more than ten percent in order to preserve an integral number of assemblies. The larger batch exposures are adjusted a little more than originally called for in order to compensate for the unadjusted fuel batches having ten or less assemblies. The original adjustment ratio of target-to-data base generated energy is preserved by this process.

3.2.4 Step 4 - Adjustment of Burnups to Match EIA Discharge Projections

In Step 4, the amount of fuel discharged is changed to match the EIA projected discharges reported by Moden et al. (1985). To preserve annual energy generation, the burnups are adjusted so that the energy (product of burnup and discharged weight) remains constant. The original utility data base contains a wide variation in discharge burnup. Those utilities whose data contained planned increases in burnup would be forced into discharge burnups far beyond the range of technical feasibility by a single global adjustment ratio applied each year. To avoid this result, a ceiling on PWR and BWR burnup is provided. No adjustments are made beyond the ceiling once it is reached. When the ceiling is encountered on one or more plants, the adjustment in burnup for the plants below the ceiling is increased so that the required annual adjustment factor is realized each year.

3.3 GENERIC REACTOR ADDITIONS

The SFDB contains information only on those reactors that were operating, or were in the planning stage by some U.S. utility in 1984. In order to meet EIA energy generation forecast after 1984 for the Middle Case, it is necessary to include generic reactors in the shifted data base at Step 1 in the adjustment process (see previous discussion and Figure 3.1). Two actual reactors

were selected to represent the generic PWR and BWR. Both were nominal 1100 MWe plants and both were on an 18 month refueling schedule. The PWR design exposure was 38,077 MWd/MTIHM, and the BWR burnup was 32,670 MWd/MTIHM. Relevant details for the two generic plant types are shown in Table 3.2.

Increases in capacity do not in general represent the addition of an integral number of plants, each with a fixed plant capacity. Fractional additions to capacity are represented by delayed startup of one of the plants of each plant type that are otherwise started up in January each year to maintain the correct cumulative capacity. Thus if the accumulated new capacity is equivalent to 15.65 generic plants by a given year, one of the plants will be started up in the fourth month of that year: $(1.0 - 0.65) \times 12.0 = 4.2$. The start-up of integral additions to capacity is done in accordance with the EIA convention of commercial operation additions in July of each year with a six month interval between first electrical generation and commercial operation.

It is important for logistics modeling to maintain reasonable geographic accuracy in the projected spent fuel discharges. Maintenance of geographic accuracy requires that the generic reactors be added with site diversity. The first step in providing site diversity is to assign each generic reactor to a federal energy region. The location of each federal energy region is shown in Table 3.3, and a map of the regions is reproduced in Appendix B.

The number of reactors added to each region is determined by apportioning the plants according to the projected electrical capacity in 1995 from nuclear power plants in the region. The projected capacities are taken from the No New Orders Case projections for 1995. It is assumed that a similar

TABLE 3.2. Generic Reactor Properties

	<u>PWR</u>	<u>BWR</u>
Rated Power Level	1,100 MWe	1,100 MWe
Thermal Power Level	3,350 MWth	3,400 MWth
Fuel Cycle Length	18 Months	18 Months
Equilibrium Enrichment	3.65 wt %	3.0 wt %
Discharge Exposure	38,077 MWd/MT	32,670 MWd/MT

TABLE 3.3. Federal Region Location

<u>Federal Energy Region</u>	<u>Location</u>
I	New England
II	New York/New Jersey
III	Middle Atlantic
IV	South Atlantic
V	Midwest
VI	Southwest
VII	Central
VIII	North Central
IX	West
X	Northwest

regional proportion of installed nuclear capacity applies beyond 1995. Because of specific regional considerations, some exceptions are made with this method for assigning generic reactors to sites. For example, the number of available sites within Region III is 19, so one of the 20 allocated reactors is relocated to the adjacent Region IV. Table 3.4 shows the 1995 installed capacities, the number of allocated generic reactors that would be in each region based on the No New Orders Case 1995 capacity, and the actual number of generic plants in each region. Table A.2 in Appendix A shows the actual federal energy region placement and date of commercial operation for each generic reactor.

The siting of generic plants within a given federal region was accomplished using the method described by Holter et al. (1986). The method develops a numerical rating for each postulated generic site in each of the 10 federal energy regions. The numerical rating defines the sequence in which each potential site is chosen. The generic reactors are then assigned chronologically in order of their startup date using this priority sequence.

3.4 ADJUSTED DATA BASE ACCURACY

The adjustment procedure is not a numerically exact process. Approximations are required during the assignment of annual energies to operating cycle

TABLE 3.4. Allocation of Generic Reactors to Federal Region

<u>Federal Energy Region</u>	<u>Installed Capacity (MWe)</u>	<u>Percent of Total</u>	<u>Allocated Reactors</u>	<u>Middle Case Generic Reactors</u>
I	6,637	6.2	10	10
II	8,767	8.2	14	14
III	12,889	12.0	20	19
IV	32,337	30.2	51	53
V	22,668	21.2	35	35
VI	7,399	6.9	12	11
VII	3,345	3.1	5	7
VIII	330	0.3	1	1
IX	10,467	9.8	16	16
X	2,230	2.1	3	1

energies. A linear weighting scheme was used which assigns the annual energy to an operating cycle in proportion to the number of months of that year that are in the cycle.

Using the following array and index definitions the adjustment procedure approximation can be expressed in general terms:

I = cycle index, J = year index, R = reactor index

M(I,J,R) = months in cycle I, year J, reactor R

ED(I,R) = shifted data base energy for cycle I, reactor R

EA(J) = annual target energy generation, year J.

The annual shifted data base energy for reactor R is calculated using the equation:

$$JED(J,R) = \sum_I M(I,J,R)/12 \times ED(I,R) \quad (3.4)$$

The annual energies are then summed over reactors:

$$SED(J) = \sum_R JED(J,R) \quad (3.5)$$

A ratio to the annual target energies is calculated:

$$\text{RATIO}(J) = \text{EA}(J)/\text{SED}(J) \quad (3.6)$$

An effective ratio is calculated for each reactor cycle using $\text{CL}(I,R)$, the cycle length in months for cycle I , reactor R :

$$\text{ERATIO}(I,R) = \sum_J \text{M}(I,J,R)/\text{CL}(I,R) \times \text{RATIO}(J) \quad (3.7)$$

The effective ratio is used to produce an adjusted data base energy for cycle I , reactor R and the discharged amounts are changed by the same ratio:

$$\text{ADJED}(I,R) = \text{ERATIO}(I,R) \times \text{ED}(I,R) \quad (3.8)$$

This process produces an adjusted data base. To test the accuracy of the adjusted data base, the adjusted cycle energies are reallocated to years, added up over all the reactors operating in a given year and compared with the target energy $\text{EA}(J)$ in test year J . In other words, the following hypothetical equality is tested for each year J :

$$\sum_R \text{YADJED}(J,R) \stackrel{?}{=} \text{EA}(J), \text{ where} \quad (3.9)$$

$$\text{YADJED}(J,R) = \sum_I \text{M}(I,J,R)/12 \times \text{ADJED}(I,R)$$

To determine the mathematical conditions under which Equation 3.9 is valid, $\text{YADJED}(J,R)$ can be analyzed by substituting the array definitions into the preceding equation which defines $\text{YADJED}(J,R)$:

$$\frac{\sum_R \sum_I \text{M}(I,J,R)/12 \times \text{ED}(I,R) \times \sum_J \text{M}(I,J,R)/\text{CL}(I,R) \times \text{EA}(J)}{\sum_R \sum_I \text{M}(I,J)/12 \times \text{ED}(I,R)} \quad (3.10)$$

The double summation over R and I in the numerator is identical to the double sum in the denominator.

When $\sum_J M(I,J,R)/CL(I,R) \times EA(J)$ reduces to $EA(J)$ the adjustment is exact.

The array $CL(I,R)$ is the cycle length in months. If $M(I,J,R)$ is summed over J years for a given reactor cycle it must equal the cycle length:

$$CL(I,R) = \sum_J M(I,J,R) \quad (3.11)$$

The sum can be reduced to unity for each value of I and R only if all of the annual target energies in the sum $EA(J)$ are equal and can be factored out of the sum. When this assumption is made the fraction reduces to $EA(J)$ and the adjustment method is exact. Thus the adjusted SFDB annual energy will equal the target EIA energy exactly only if those energies are equal for a period of time before and after the test year. Forecasts wherein the annual energy generation changes in abrupt steps will be less accurately adjusted. Calculation of the accuracy of each adjusted data base is, therefore, a mandatory step in the adjustment process.

The data base adjustment process allows a complete check on the accuracy of the approximation. When the final adjusted data base is produced, the annual adjusted energies can be calculated and summed over all reactors by performing Step 2. The resulting annual sum can be compared to the target annual energies by performing Step 3. The resulting annual energy adjustment ratios are generally very close to unity. Thus the adjustment process converges to within a few percent after a single iteration.

The adjustment process approximation can be explained by a numerical example: If an 18-month cycle were made up of three months for the first year, 12 months for the next year, and three months for the third year, the cycle energy would be:

$$ECYCLE = 3/12 \times E1 + 12/12 \times E2 + 3/12 \times E3 \quad (3.12)$$

where E1, E2, and E3 are the annual energies of the first, second and third years respectively. If the annual energies are the target EIA energies, then ECYCLE would be the cycle energy generation on the database that would exactly match the target energies. If ESFDB is the unadjusted cycle energy, the adjustment ratio will be ECYCLE/ESFDB. After the adjustment is made, ESFDB is replaced by ECYCLE, and all discharges are adjusted by the adjustment factor ECYCLE/ESFDB. The allocation of cycle energy to years would be EADJ1 = $3/18 \times ECYCLE$ for the first year. The original allocation is $3/12 \times E1$. If the adjustment is exact, the ratio of adjusted first year allocation, EADJ1, to $3/12 \times E1$ should equal unity. The ratio is:

$$\frac{3/18 \times (3/12 \times E1 + 12/12 \times E2 + 3/12 \times E3)}{3/12 \times E1} \quad (3.13)$$

This expression will be unity only if $E1 = E2 = E3$.

3.5 DATA BASE ADJUSTMENT RESULTS

The results of adjustments to the SFDB are highlighted in this section. Specifically the comparison between the target EIA capacities and energy generation, and the after-adjustment capacities and energy generation is shown. It is impossible to achieve numerical identity for two basic reasons. First, the data sources are different. The utilities supply the plant capacity numbers in the SFDB. EIA sources are independent, and while there may be differences in some detail, the over-all agreement should be quite close. Second, the energy-generation adjustment algorithm is not exact where adjacent year target energies differ greatly. This generally produces some minor differences between the target energy and the energy used to adjust spent fuel amounts.

Table 3.5 shows the installed capacity and energy generated by the target EIA forecast, and the SFDB No New Orders Case. The capacities of the adjusted data base are within 10 percent of the EIA values for the years 1986 through

TABLE 3.5. No New Orders Case Capacity and Energy Comparison

Year	Installed Capacity (Gigawatts)		Electrical Energy (Terawatt-hours)	
	EIA	SFDB	EIA	SFDB
1985	77.0	76.4	360.0	358.2
1986	82.6	86.7	397.8	395.3
1987	88.2	97.4	435.6	440.9
1988	93.8	102.3	473.4	475.0
1989	99.4	103.5	511.2	517.5
1990	105.0	104.7	549.0	544.7
1991	105.6	105.8	557.8	558.4
1992	106.2	107.1	566.6	567.7
1993	106.8	107.1	575.4	577.0
1994	107.4	107.1	584.2	584.5
1995	108.0	107.1	593.0	591.3
1996	107.6	107.1	595.6	595.6
1997	107.2	107.1	598.2	599.9
1998	106.8	106.9	600.8	601.4
1999	106.4	106.9	603.4	602.7
2000	106.0	106.5	606.0	605.5
2001	106.0	106.5	606.0	606.1
2002	106.0	106.4	606.0	606.8
2003	106.0	106.4	606.0	606.0
2004	106.0	106.3	606.0	605.9
2005	106.0	105.6	606.0	605.1
2006	105.6	105.6	603.2	605.2
2007	105.2	104.4	600.4	598.9
2008	104.8	104.1	597.6	597.9
2009	104.4	104.1	594.3	594.0
2010	104.0	104.1	592.0	583.5
2011	95.0	103.4	541.6	565.0
2012	86.0	91.3	491.2	495.3
2013	77.0	79.6	440.3	438.8
2014	68.0	68.1	390.4	382.8
2015	59.0	59.0	340.0	336.1
2016	56.4	57.8	324.8	325.2
2017	53.8	56.9	309.6	315.1
2018	51.2	53.0	294.4	295.7
2019	48.6	48.4	279.2	276.6
2020	46.0	46.1	264.0	264.1

1988 and are much closer during the years when generation capacity is stable. The annual electrical energy generation is generally within 1 percent of the EIA target value except in the year 2011 where the SFDB is high by 4 percent.

Table 3.6 shows the cumulative discharges for the Constant Burnup and Extended Burnup cases compared to the EIA target cumulative discharges described by Moden et al. (1985). Cumulative spent fuel discharges from the SFDB are generally within 1 percent of the EIA forecast value.

TABLE 3.6. No New Orders Case Cumulative Discharges Compared to EIA Target Discharges.

Year	Constant Burnup Discharges (MTIHM)		Extended Burnup Discharge (MTIHM)	
	EIA	SFDB	EIA	SFDB
1984	11,442	11,424	11,442	11,424
1985	12,679	12,801	12,474	12,759
1986	14,178	14,205	14,040	14,054
1987	15,659	15,829	15,330	15,655
1988	17,554	17,656	17,277	17,328
1989	19,702	19,646	19,071	19,112
1990	21,643	21,711	20,743	20,995
1991	23,754	23,772	22,936	22,762
1992	25,896	25,953	24,370	24,757
1993	28,193	28,193	26,738	26,494
1994	30,480	30,403	28,147	28,564
1995	32,538	32,623	30,591	30,357
1996	34,864	34,928	32,125	32,401
1997	37,395	37,219	34,289	34,213
1998	39,417	39,516	36,031	36,057
1999	41,756	41,831	37,666	37,909
2000	44,345	44,168	39,861	39,635
2001	46,435	46,485	41,209	41,627
2002	48,716	48,822	43,635	43,370
2003	51,366	51,186	45,100	45,316
2004	53,535	53,515	47,061	47,049
2005	55,710	55,853	48,835	48,825
2006	58,385	58,163	50,437	50,708
2007	60,465	60,504	52,719	52,474
2008	62,739	62,826	54,142	54,498
2009	65,359	65,220	56,517	56,287
2010	67,678	67,753	58,094	58,345
2011	70,378	70,465	60,318	60,550
2012	73,499	73,496	63,135	63,129
2013	76,774	76,312	65,853	65,646
2014	78,825	78,775	67,877	67,692
2015	80,919	80,570	69,280	69,350
2016	82,170	82,237	70,740	70,637
2017	83,833	83,655	71,739	71,845
2018	85,205	84,997	72,914	72,866
2019	86,196	86,196	73,809	73,871
2020	87,449	87,283	74,635	74,778

Annual capacity and energy generation comparisons for the Middle Case are shown in Table 3.7. As in the No New Orders Case the agreement in installed capacity between the SFDB and EIA is within 10 percent in the years 1986

TABLE 3.7. Middle Case Capacity and Energy Comparison

Year	Installed Capacity (Gigawatts)		Electrical Energy (Terawatt-hours)	
	EIA	SFDB	EIA	SFDB
1985	80.5	80.3	372.0	374.2
1986	86.3	92.6	412.4	416.5
1987	92.1	100.4	452.8	454.9
1988	97.9	104.3	493.2	498.2
1989	103.7	106.1	533.6	530.5
1990	109.6	109.3	574.0	568.7
1991	111.0	112.9	588.0	586.3
1992	112.4	115.3	602.0	620.5
1993	113.9	116.4	616.0	619.3
1994	115.3	116.4	630.0	629.8
1995	116.8	116.4	644.0	641.5
1996	116.5	116.4	647.0	647.2
1997	116.3	116.3	650.0	649.7
1998	116.1	116.2	653.0	653.2
1999	115.9	115.8	656.0	656.6
2000	115.7	115.7	659.0	658.8
2001	122.3	120.8	690.2	685.0
2002	129.0	128.6	721.4	722.4
2003	135.6	135.2	752.6	752.2
2004	142.3	141.6	783.3	783.2
2005	149.0	148.4	815.0	816.2
2006	155.6	153.8	852.2	858.7
2007	162.2	158.3	889.4	881.2
2008	168.8	164.5	926.6	923.4
2009	175.4	175.8	963.3	972.7
2010	182.0	182.0	1001.0	988.6
2011	188.8	194.0	1031.6	1031.1
2012	195.6	203.2	1062.2	1062.2
2013	202.4	209.9	1092.3	1097.8
2014	209.2	211.9	1123.4	1117.6
2015	216.0	216.4	1154.0	1144.3
2016	222.4	225.0	1197.2	1198.9
2017	228.8	226.8	1240.4	1228.4
2018	235.2	235.3	1283.5	1271.0
2019	241.6	242.5	1326.3	1315.4
2020	248.0	248.4	1370.0	1352.7

through 1989, and within one percent in the stable middle years except for 2011 and 2012 when disagreement is larger than 1 percent but less than 10 percent. The annual electrical generation is within 1 percent except for the years 2010 and 2011.

The Middle Case cumulative discharges are compared to EIA target discharges in Table 3.8. The agreement is consistently within 1 percent.

Annual reactor-by-reactor discharge projections for the Middle Case with extended burnup are shown in Table A.3 of Appendix A. Table A.4 shows the cumulative inventory at each reactor for the same Middle Case.

Figure 3.2 illustrates the installed capacities of the Middle Case and the No New Orders Case according to the EIA (Mayes et al. 1985). Figure 3.3 shows a similar comparison of annual energy generation for the two EIA forecasts. The cumulative spent fuel discharges are shown in Figure 3.4.

The required adjustment factors to obtain an agreement between the utility and the EIA forecasted annual energy generation are shown in Table 3.9. In general, the utility-supplied energy generation had to be reduced by approximately 5 percent to align with the EIA forecasted No New Orders Case generation. Less than 5 percent adjustment was required in the Middle Case. The information supplied by the utilities was more optimistic than EIA estimates of the annual energy generation.

3.6 SPENT FUEL STORAGE REQUIREMENTS

The final result to be reported is the analysis of additional fuel storage requirements. The two reference cases covered in this analysis are based on the maximum at-reactor storage capacities of the individual reactor pools, as determined by the utilities. Both cases include allowances for maintaining full core discharge capability, also referred to as full core reserve (FCR), for each separate reactor. A single FCR is assumed to be maintained for all units at multiple reactor stations employing either a single common spent-fuel storage pool, or separate pools with interconnections allowing transfer of spent fuel around them. The only difference between the two references cases

TABLE 3.8. Middle Case Cumulative Discharges Compared to EIA

Year	Constant Burnup Discharges (MTIHM)		Extended Burnup Discharge (MTIHM)	
	EIA	SFDB	EIA	SFDB
1984	11,442	11,424	11,442	11,423
1985	12,679	12,659	12,474	12,436
1986	14,178	14,155	14,040	13,979
1987	15,754	15,728	15,426	15,340
1988	17,680	17,648	17,498	17,384
1989	19,757	19,725	19,287	19,146
1990	21,792	21,757	20,950	20,781
1991	24,085	24,050	23,149	22,956
1992	26,275	26,237	24,693	24,537
1993	28,635	28,593	27,193	27,015
1994	31,010	30,860	28,730	28,483
1995	33,530	33,378	31,441	31,169
1996	35,919	35,782	32,946	32,736
1997	38,571	38,427	35,436	35,178
1998	41,048	40,902	37,445	37,185
1999	43,507	43,372	39,137	38,876
2000	46,118	45,978	41,658	41,363
2001	48,569	48,427	42,989	42,989
2002	51,284	51,143	45,723	45,697
2003	54,047	53,901	47,302	47,367
2004	56,783	56,633	50,029	50,061
2005	59,729	59,584	52,446	52,453
2006	63,246	63,081	54,548	54,527
2007	66,290	66,188	57,863	57,830
2008	69,580	69,470	60,048	60,236
2009	73,645	73,522	63,580	63,738
2010	77,417	77,279	66,381	66,784
2011	81,605	81,462	69,914	70,295
2012	86,479	86,302	74,259	74,584
2013	92,182	91,982	78,539	78,817
2014	96,668	96,444	82,731	82,958
2015	101,187	100,950	86,416	86,628
2016	106,129	105,860	90,502	90,674
2017	111,472	111,180	94,535	94,656
2018	116,102	115,780	98,620	98,699
2019	121,395	121,040	102,684	102,199
2020	126,642	126,250	106,404	106,444

is in the consideration of transshipment to other reactor sites. The first reference case assumes that transshipments occur only as currently planned by the utilities. The second reference case includes the additional assumption

FIGURE 3.2. Installed EIA Nuclear Capacity Projections

that there are no constraints on transshipments of spent fuel among reactors of like type (i.e. among BWRs or among PWRs within a given utility system). This assumption allows unused spent-fuel storage capacity at one reactor to offset needs for additional capacity at another reactor in the same utility system, thus delaying the utility's need for additional storage capacity. Such transshipments are included in the spent-fuel management plans of several utilities. The two reference cases therefore define a range of potential storage requirements.

FIGURE 3.3. Projected EIA Nuclear Energy Generation

The maximum at-reactor storage capacity case results are given in Table 3.10 for the four projected data bases: No New Orders with Extended Burnup, No New Orders with Constant Burnup, Middle Case with Extended Burnup, and the Middle Case with Constant Burnup. The time period covers the range from 1985 to the year 2020. The availability of federally-operated storage or repository facilities is not taken into account in these projections. It is

FIGURE 3.4. Cumulative Spent Fuel Inventory for the Four Adjusted Data Bases, and for the Unadjusted Utility Data

expected that the first repository will begin accepting fuel by 1998, which would make the projections in Tables 3.10 and 3.11 unrealistic for that year and beyond.

It is evident that the four adjusted data bases have substantially reduced additional storage requirement needs from utility projections. This reduction is due both to the reduced plant operating capacity factor and (in later years) to the delayed startup assumptions.

TABLE 3.9. Utility to EIA Required Energy Adjustment Factors--EIA/SFDB

<u>Year</u>	<u>No New Orders Case</u>	<u>Middle Case</u>
1984	0.948	0.966
1985	0.955	0.912
1986	0.902	0.887
1987	0.864	0.902
1988	0.855	0.934
1989	0.837	0.990
1990	0.878	1.014
1991	0.885	1.000
1992	0.887	0.967
1993	0.901	0.974
1994	0.919	0.987
1995	0.928	0.996
1996	0.926	0.998
1997	0.920	1.010
1998	0.930	1.008
1999	0.944	1.001
2000	0.943	1.002
2001	0.941	1.015
2002	0.935	0.996
2003	0.937	0.986
2004	0.942	0.982
2005	0.941	0.975
2006	0.936	0.969
2007	0.941	0.997
2008	0.934	0.987
2009	0.940	0.967
2010	0.939	0.990
2011	0.855	0.952
2012	0.882	0.917
2013	0.913	0.892
2014	0.961	0.899
2015	0.969	0.907
2016	0.933	0.900
2017	0.895	0.913
2018	0.915	0.913
2019	0.951	0.911
2020	0.953	0.917

The maximum at-reactor storage capacity plus transshipment case results are given in Table 3.11. Again, a substantially reduced additional storage requirement need is evident under the adjusted data base energy generation and capacity assumptions.

TABLE 3.10. Cumulative Storage Requirements--Maximum AR Storage (MTIHM)

Year	Utility Base	No New Orders		Middle Case	
		Ext. Burnup	Const. Burnup	Ext. Burnup	Const. Burnup
1985	1	3	5	0	3
1986	50	30	41	22	32
1987	126	54	77	27	43
1988	271	160	211	116	144
1989	521	323	397	249	313
1990	759	449	560	334	435
1991	1148	687	850	600	738
1992	1633	973	1199	771	1017
1993	2056	1231	1566	1094	1349
1994	2590	1659	2083	1343	1800
1995	3392	2024	2631	1789	2287
1996	4156	2478	3279	2049	2832
1997	5172	2994	4055	2637	3604
1998	6601	3563	4946	3203	4421
1999	7888	4235	6089	3641	5373
2000	9332	5025	7296	4591	6661
2001	10947	5869	8444	5206	7770
2002	12751	6796	9899	6462	9260
2003	14811	7811	11319	7210	10682
2004	16671	8717	12845	8322	12178
2005		9736	14405	9354	13797
2006		10823	16074	10174	15642
2007		11906	17815	11410	17035
2008		13214	19595	12282	18514
2009		14464	21586	13681	20632
2010		15999	23829	14513	22053
2011		17649	26269	15702	23943
2012		19038	28261	16873	26004
2013		20229	29920	18089	28392
2014		21313	31507	19361	30405
2015		21818	32230	20148	32129
2016		22824	33719	21349	34513
2017		23783	34939	22323	36961
2018		24383	35875	23145	38727
2019		25148	36841	24048	41043
2020		25784	37655	25035	43512

In many years, Table 3.10 shows a higher storage requirement for the No New Orders Case than for the Middle case for both extended and constant burnup scenarios. Since the Middle Case has a larger energy generation, one would expect that it would have a higher storage requirement than the No New Orders Case. This does not occur because the Middle Case has more reactors than the

TABLE 3.11. Cumulative Storage Requirements---Maximum AR Storage Plus Transshipment (MTIHM)

Year	Utility Base	No New Orders		Middle Case	
		Ext. Burnup	Const. Burnup	Ext. Burnup	Const. Burnup
1985	0	0	0	0	0
1986	0	0	0	0	0
1987	31	17	20	5	7
1988	57	39	44	19	27
1989	89	63	70	41	53
1990	92	63	70	41	53
1991	258	110	133	100	117
1992	452	155	238	114	166
1993	729	241	446	201	293
1994	1100	509	842	309	546
1995	1719	797	1323	532	858
1996	2523	1201	1850	726	1315
1997	3529	1599	2530	1092	1955
1998	4952	2130	3411	1627	2744
1999	6357	2768	4437	2044	3633
2000	7919	3434	5654	2988	4784
2001	9543	4262	6778	3444	5690
2002	11283	5092	7991	4370	6786
2003	13400	6122	9488	5003	8051
2004	15118	6969	11016	5847	9577
2005		7919	12570	6823	11263
2006		9057	14225	7613	13173
2007		10123	15957	8926	14610
2008		11419	17796	9875	16113
2009		12685	19845	11366	18139
2010		14187	22042	12266	19529
2011		15888	24456	13490	21296
2012		17230	26339	14844	23084
2013		18426	28000	16129	25165
2014		19558	29659	17439	26955
2015		20074	30412	18251	28384
2016		21102	31960	19494	30663
2017		22089	33262	20445	33407
2018		22679	34240	21240	34972
2019		23450	35254	22133	37504
2020		24068	36090	23104	40106

No New Orders Case and the per-reactor energy generation is actually higher in the No New Orders Case than it is in the Middle Case. In this situation, the older reactors with limited storage generate more energy, and hence discharge

more fuel in the No New Orders Case. As discussed in Section 1.0, the variables in the case scenarios for current and pipeline reactors reflect variation in plant operation at the same plant.

In the period after 1995, the Middle Case has up to nine more pipeline reactors operating than in the No New Orders Case. In addition, it has generic reactor additions starting in the year 2000. Discharges from reactors which started up before 1985 are higher in the No New Orders Case than in the Middle Case. Since these older reactors have lower storage capacity than generic reactors and the Middle Case additional pipeline reactors, the No New Orders Case storage requirements remain above Middle Case requirements.

The No New Orders requirement excess above the Middle Case reaches a maximum of 2165 MTIHM in 2012 for the extended burnup scenario. This further increase is due to the difference in shutdown dates for reactors which started up in 1984 or before. For example, the No New Orders Case has 18 reactors shutting down in 2011. It would have been unrealistic to introduce 18 generic reactors in the Middle Case to make up for the large decrease in capacity in 2011. Therefore the Middle Case shutdown dates were moved to an earlier period for some of these reactors. A similar procedure was followed for other years in developing the Middle Case data base in order to smooth out the addition of generic reactor capacity. The result of the advanced shutdown dates for historic reactors is that the Middle Case low storage capacity reactors are removed sooner than those same reactors in the No New Orders Case. Since they are replaced with high storage capacity generic reactors, the No New Orders Case storage requirements remain above the Middle Case extended burnup cases in the 2006 to 2020 time period. In the constant burnup cases, the greater total fuel inventory compared to the extended burnup cases causes the Middle Case requirement to finally exceed the No New Orders Case requirements in 2016. A similar crossover would occur after 2020 with the extended burnup cases.

The additional storage requirements taking transshipment into account are shown in Table 3.11 for the four projected data bases and for the utility data base. A comparison of Tables 3.10 and 3.11 shows that transshipment is an effective means of reducing additional storage requirements. Storage requirements based on the information from Tables 3.10 and 3.11 are illustrated in

Figures 3.5 and 3.6. The No New Orders Case storage requirements with transshipment are higher than those for the Middle Case for the same reasons cited for the maximum at-reactor case without transshipment. The trend is the same for both maximum at-reactor storage with transshipment and without transshipment. The No New Orders Case requirements remain above Middle Case requirements for the constant burnup scenario until 2016 for the maximum at-reactor storage case and 2017 for the maximum at-reactor storage plus transshipment case. At this time, a crossover occurs and the higher discharge of the Middle Case finally results in higher requirements for the Middle Case. Such a crossover occurs for the extended burnup scenario only after 2020.

FIGURE 3.5. Cumulative Additional Storage Requirement--Maximum At-Reactor Storage

FIGURE 3.6. Cumulative Additional Storage Requirement--Maximum At-Reactor Storage Plus Transshipment

4.0 REFERENCES

- DOE. 1985a. Spent Fuel Storage Requirements: An Update of DOE/RL-84-1. DOE/RL-85-2, U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE. 1985b. Spent Fuel and Radioactive Waste Inventories, Projections, and Characteristics, DOE/RW-0006, Rev.1, U.S. Department of Energy, Office of Nuclear Energy, Washington, D.C.
- Heeb, C. M., R. A. Libby and G. M. Holter. 1985. Reactor-Specific Spent Fuel Discharge Projections: 1984 to 2020. PNL-5396, Pacific Northwest Laboratory, Richland, Washington.
- Holter, G. M. et al. 1986. A Method for Assigning Sites to Projected Generic Nuclear Power Plants. PNL-5870, Pacific Northwest Laboratory, Richland, Washington.
- Mayes, F. et al. 1985. Commercial Nuclear Power: Prospects for the United States and the World. DOE/EIA-0438 (85), U.S. Department of Energy, Washington, D.C.
- Moden, R. et al. 1985. World Nuclear Fuel Cycle Requirements 1985. DOE/EIA-0436 (85), U.S. Department of Energy, Washington, D.C.

APPENDIX A

DETAILED DATA BASE RESULTS

APPENDIX A

DETAILED DATA BASE RESULTS

The following tables provide detailed results for three scenarios: Utility, No New Orders Case, and Middle Case. Table A.1 gives startup and shutdown dates for reactors in each scenario. Table A.2 gives names and startup dates for the Middle Case generic reactors. Tables A.3 to A.8 give spent fuel discharge projections by reactor similar to information published by DOE (1985a) for the Utility Data Base. The Middle Case has been selected by OCRWM as the projection to be used for planning purposes. The Middle Case with extended burnup is the EIA base case assumption for 1985. Therefore Tables A.3 through A.8 show the Middle Case with extended burnup.

Table Number	Title
A.1	Startup and Shutdown Dates for Utility, No New Orders and Middle Case
A.2	Startup and Shutdown Dates of Middle Case Generic Reactors
A.3	Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges
A.4	Middle Case (with Extended Burnup) 1984 and Projected Inventories
A.5	Middle Case (with Extended Burnup) Maximum At-Reactor Capacity - Projected Annual Additional Storage Requirements
A.6	Middle Case (with Extended Burnup) Maximum At-Reactor Capacity - Projected Cumulative Storage Requirements
A.7	Middle Case (with Extended Burnup) Maximum At-Reactor Capacity - Plus Transshipment - Projected Annual Storage Requirements
A.8	Middle Case (with Extended Burnup) Maximum At-Reactor Capacity - Plus Transshipment - Projected Cumulative Storage Requirements

TABLE A.1. Startup and Shutdown Dates for Utility, No New Orders, and Middle Cases

Reactor	Utility Case		No New Orders Case		Middle Case	
	Startup	Shutdown	Startup	Shutdown	Startup	Shutdown
DRESDEN 1	1960/07	1978	1960/07	1978	1960/07	1978
YANKEE-ROWE 1	1961/07	1997	1961/07	1997	1961/07	1997
INDIAN PT 1	1962/10	1980	1962/10	1980	1962/10	1980
HUMBOLDT BAY	1963/09	1976	1963/09	1976	1963/09	1976
BIG ROCK 1	1965/11	2001	1965/11	2001	1965/11	2001
SAN ONOFRE 1	1968/01	1999	1968/01	1999	1968/01	1999
HADDAM NECK	1968/01	2004	1968/01	2011	1968/01	2006
LACROSSE	1969/11	2003	1969/11	2003	1969/11	2003
OYSTER CRK 1	1969/12	2004	1969/12	2006	1969/12	2006
NINE MILE PT 1	1969/12	2005	1969/12	2011	1969/12	2006
DRESDEN 2	1970/06	2008	1970/06	2012	1970/06	2006
GINNA	1970/07	2006	1970/07	2006	1970/07	2006
POINT BEACH 1	1970/12	2007	1970/12	2011	1970/12	2006
MILLSTONE 1	1970/12	2010	1970/12	2010	1970/12	2006
ROBINSON 2	1971/03	2007	1971/03	2011	1971/03	2006
MONTICELLO	1971/06	2007	1971/06	2011	1971/06	2006
DRESDEN 3	1971/11	2006	1971/11	2011	1971/11	2007
PALISADES	1971/12	2011	1971/12	2011	1971/12	2007
POINT BEACH 2	1972/10	2008	1972/10	2013	1972/10	2007
VT YANKEE 1	1972/11	2012	1972/11	2013	1972/11	2007
PILGRIM 1	1972/12	2008	1972/12	2013	1972/12	2007
MAINE YANKEE	1972/12	2008	1972/12	2012	1972/12	2007
SURRY 1	1972/12	2008	1972/12	2013	1972/12	2008
TURKEY PT 3	1972/12	2007	1972/12	2011	1972/12	2007
QUAD CITIES 1	1973/02	2007	1973/02	2011	1973/02	2008
QUAD CITIES 2	1973/03	2007	1973/03	2011	1973/03	2008
SURRY 2	1973/05	2008	1973/05	2013	1973/05	2008
OCONEE 1	1973/07	2007	1973/07	2011	1973/07	2008
FORT CALHOUN	1973/09	2008	1973/09	2012	1973/09	2008
TURKEY PT 4	1973/09	2007	1973/09	2011	1973/09	2008
ZION 1	1973/12	2007	1973/12	2011	1973/12	2008
PRAIRIE ISL 1	1973/12	2008	1973/12	2012	1973/12	2008
KEWAUNEE	1974/06	2014	1974/06	2014	1974/06	2009
COOPER STN	1974/07	2004	1974/07	2004	1974/07	2004

TABLE A.1.   Startup and Shutdown Dates for Utility, No New Orders, and Middle Cases (contd)

Reactor	Utility Case		No New Orders Case		Middle Case	
	Startup	Shutdown	Startup	Shutdown	Startup	Shutdown
PEACH BOTTOM 2	1974/07	2008	1974/07	2012	1974/07	2009
INDIAN PT 2	1974/08	2006	1974/08	2011	1974/08	2009
BROWNS FERRY 1	1974/08	2014	1974/08	2014	1974/08	2009
ZION 2	1974/09	2008	1974/09	2012	1974/09	2009
3 MILE ISL 1	1974/09	2008	1974/09	2012	1974/09	2009
OCONEE 2	1974/09	2010	1974/09	2014	1974/09	2009
PRAIRIE ISL 2	1974/12	2008	1974/12	2012	1974/12	2009
OCONEE 3	1974/12	2009	1974/12	2013	1974/12	2009
ARK NUCLEAR 1	1974/12	2008	1974/12	2012	1974/12	2009
PEACHBOTTOM 3	1974/12	2008	1974/12	2012	1974/12	2012
HATCH 1	1974/12	2009	1974/12	2013	1974/12	2013
DUANE ARNOLD	1975/02	2010	1975/02	2014	1975/02	2014
BROWNS FERRY 2	1975/03	2014	1975/03	2014	1975/03	2014
RANCHO SECO 1	1975/04	2008	1975/04	2013	1975/04	2013
CALVERT CLF 1	1975/05	2009	1975/05	2013	1975/05	2013
FITZPATRICK	1975/07	2015	1975/07	2014	1975/07	2014
COOK 1	1975/08	2009	1975/08	2013	1975/08	2013
BRUNSWICK 2	1975/11	2010	1975/11	2014	1975/11	2014
MILLSTONE 2	1975/12	2015	1975/12	2014	1975/12	2014
TROJAN	1976/05	2015	1976/05	2015	1976/05	2015
INDIAN PT 3	1976/08	2015	1976/08	2016	1976/08	2016
B VALLEY 1	1976/10	2010	1976/10	2014	1976/10	2014
ST LUCIE 1	1976/12	2010	1976/12	2014	1976/12	2014
BROWNS FERRY 3	1977/03	2017	1977/03	2017	1977/03	2017
CRYSTAL RVR 3	1977/03	2017	1977/03	2017	1977/03	2017
BRUNSWICK 1	1977/03	2010	1977/03	2014	1977/03	2014
CALVERT CLF 2	1977/04	2009	1977/04	2013	1977/04	2013
SALEM 1	1977/06	2017	1977/06	2017	1977/06	2017
FARLEY 1	1977/12	2012	1977/12	2012	1977/12	2012
NORTH ANNA 1	1978/06	2011	1978/06	2011	1978/06	2016
COOK 2	1978/07	2009	1978/07	2013	1978/07	2013
DAVIS-BESSE 1	1978/07	2017	1978/07	2017	1978/07	2017
HATCH 2	1979/09	2012	1979/09	2013	1979/09	2013
ARK NUCLEAR 2	1980/03	2012	1980/03	2012	1980/03	2012
NORTH ANNA 2	1980/12	2011	1980/12	2011	1980/12	2016
FARLEY 2	1981/07	2012	1981/07	2012	1981/07	2016
SEQUOYAH 1	1981/07	2021	1981/07	2018	1981/07	2021
MCGUIRE 1	1981/09	2022	1981/09	2018	1981/09	2021

TABLE A.1. Startup and Shutdown Dates for Utility, No New Orders, and Middle Cases (contd)

Reactor	Utility Case		No New Orders Case		Middle Case	
	Startup	Shutdown	Startup	Shutdown	Startup	Shutdown
SALEM 2	1981/10	2020	1981/10	2018	1981/10	2021
SEQUOYAH 2	1982/06	2022	1982/06	2019	1982/06	2021
LASALLE CTY 1	1982/10	2022	1982/10	2018	1982/10	2021
SUSQUEHANNA 1	1983/06	2022	1983/06	2021	1983/06	2021
SAN ONOFRE 2	1983/08	2012	1983/08	2012	1983/08	2024
ST LUCIE 2	1983/08	2023	1983/08	2023	1983/08	2023
SUMMER 1	1984/01	2024	1984/01	2024	1984/01	2024
MCGUIRE 2	1984/02	2024	1984/02	2024	1984/02	2024
SAN ONOFRE 3	1984/04	2013	1984/04	2013	1984/04	2024
GRAND GULF 1	1985/03	2022	1984/09	2024	1984/09	2024
WATERFORD 3	1985/06	2025	1986/07	2026	1984/09	2024
CATAWBA 1	1985/06	2025	1985/11	2025	1984/09	2024
LASALLE CTY 2	1984/09	2023	1984/09	2019	1984/09	2024
BYRON 1	1985/01	2024	1986/03	2026	1984/10	2024
CALLAWAY 1	1985/03	2024	1984/10	2024	1984/10	2024
WATTS BAR 1	1985/12	2025	1985/12	2025	1984/10	2024
SUSQUEHANNA 2	1984/11	2024	1984/11	2024	1984/11	2024
DIABLO CNYN 1	1985/03	2025	1984/11	2024	1984/11	2024
ENRICO FERMI 2	1985/07	2025	1986/03	2026	1984/12	2024
WASH NUCLEAR 2	1984/12	2023	1984/12	2023	1984/12	2023
PALOVERDE 1	1985/10	2024	1986/04	2026	1985/02	2025
WOLF CRK 1	1985/05	2026	1986/07	2026	1985/03	2025
COMANCHE PK 1	1986/01	2026	1986/06	2026	1985/05	2025
LIMERICK 1	1985/11	2014	1986/12	2026	1985/07	2025
SHOREHAM	1983/10	2025			1985/08	2025
HARRIS 1	1986/09	2016	1986/12	2026	1985/08	2025
DIABLO CNYN 2	1985/10	2025	1986/12	2026	1985/08	2025
PALO VERDE 2	1986/03	2025	1987/03	2027	1986/01	2026
BYRON 2	1986/10	2026	1987/07	2027	1986/01	2026
MILLSTONE 3	1986/05	2025	1987/06	2027	1986/01	2026
PERRY 1	1985/12	2025	1987/05	2027	1986/01	2026
BRAIDWOOD 1	1988/10	2026	1987/07	2027	1986/02	2026
COMANCHE PK 2	1987/07	2027	1986/08	2026	1986/03	2026
WATTS BAR 2	1987/09	2027	1988/02	2028	1986/07	2026
SEABROOK 1	1986/08	2026	1987/10	2027	1986/07	2026
CLINTON 1	1986/11	2026	1987/12	2027	1986/07	2026
HOPE CRK 1	1986/12	2027	1988/02	2028	1986/08	2026
B VALLEY 2	1986/10	2020	1988/01	2028	1986/08	2026

TABLE A.1. Startup and Shutdown Dates for Utility, No New Orders, and Middle Cases (contd)

Reactor	Utility Case		No New Orders Case		Middle Case	
	Startup	Shutdown	Startup	Shutdown	Startup	Shutdown
RVR BEND 1	1985/12	2025	1987/12	2027	1986/09	2026
NINE MILE PT 2	1986/10	2026	1988/03	2028	1986/10	2026
SOUTH TEXAS 1	1987/06	2026	1988/12	2028	1987/04	2027
CATAWBA 2	1987/06	2027	1988/09	2028	1987/05	2027
PALOVERDE 3	1987/03	2026	1989/02	2029	1987/09	2027
VOGTLE 1	1987/03	2027	1989/02	2029	1987/09	2027
BRAIDWOOD 2	1987/12	2027	1989/10	2029	1988/02	2028
BELLEFONTE 1	1989/04	2028	1990/06	2030	1988/10	2028
SOUTH TEXAS 2	1989/06	2028			1989/07	2029
VOGTLE 2	1988/09	2028	1991/10	2031	1989/11	2029
WNP-3					1990/03	2030
PERRY 2	1990/05	2030			1990/08	2030
GRAND GULF 2	1988/12	2028			1991/01	2031
BELLEFONTE 2	1990/04	2030	1993/03	2033	1991/04	2031
SEABROOK-2					1991/07	2031
WNP-1					1992/01	2032
LIMERICK 2	1990/07	2014			1992/11	2032
CARROLL COUNTY-2					2001/06	2041
CARROLL COUNTY-1					2001/06	2041

TABLE A.2. Startup and Shutdown Dates of Middle Case Generic Reactors

<u>Reactor Name</u>	<u>Region</u>	<u>Startup</u>	<u>Shutdown</u>
P010101	4	2001/01	2041/01
P010201	5	2001/01	2041/01
B010101	2	2001/01	2041/01
P010305	4	2001/05	2041/05
B010209	3	2001/09	2041/09
B020101	9	2002/01	2042/01
P020301	4	2002/01	2042/01
P020201	5	2002/01	2042/01
P020101	3	2002/01	2042/01
P020403	2	2002/03	2042/03
B020208	4	2002/08	2042/08
P030101	9	2003/01	2043/01
P030201	6	2003/01	2043/01
P030301	4	2003/01	2043/01
B030101	4	2003/01	2043/01
P030403	1	2003/03	2043/03
B030208	5	2003/08	2043/08
P040301	4	2004/01	2044/01
P040201	3	2004/01	2044/01
P040101	5	2004/01	2044/01
B040101	6	2004/01	2044/01
P040402	4	2004/02	2044/02
B040208	4	2004/08	2044/08
P050301	2	2005/01	2045/01
P050201	4	2005/01	2045/01
P050101	5	2005/01	2045/01
P050401	9	2005/01	2045/01
B050101	5	2005/01	2045/01
B050205	3	2005/05	2045/05
P050508	3	2005/08	2045/08
B060101	4	2006/01	2046/01
P060101	4	2006/01	2046/01
P060201	7	2006/01	2046/01
P060301	5	2006/01	2046/01
B060202	7	2006/02	2046/02
P060405	6	2006/05	2046/05
P070301	5	2007/01	2047/01
P070501	3	2007/01	2047/01
B070101	2	2007/01	2047/01
B070201	9	2007/01	2047/01
P070401	4	2007/01	2047/01

TABLE A.2. Startup and Shutdown Dates of Middle Case Generic Reactors (contd)

<u>Reactor Name</u>	<u>Region</u>	<u>Startup</u>	<u>Shutdown</u>
P070201	1	2007/01	2047/01
P070101	4	2007/01	2047/01
B070307	4	2007/07	2047/07
P070612	2	2007/12	2047/12
B080301	4	2008/01	2048/01
P080701	5	2008/01	2048/01
P080201	4	2008/01	2048/01
B080101	5	2008/01	2048/01
P080101	9	2008/01	2048/01
P080401	9	2008/01	2048/01
P080601	6	2008/01	2048/01
P080501	4	2008/01	2048/01
B080201	1	2008/01	2048/01
P080301	5	2008/01	2048/01
B080406	3	2008/06	2048/06
P080809	3	2008/09	2048/09
P090101	4	2009/01	2049/01
B090201	6	2009/01	2049/01
B090501	5	2009/01	2049/01
B090301	4	2009/01	2049/01
B090101	5	2009/01	2049/01
P091001	5	2009/01	2049/01
B090401	9	2009/01	2049/01
P090801	4	2009/01	2049/01
P090701	3	2009/01	2049/01
P090601	9	2009/01	2049/01
P090501	2	2009/01	2049/01
P090401	5	2009/01	2049/01
P090301	4	2009/01	2049/01
P090901	7	2009/01	2049/01
P090201	1	2009/01	2049/01
P091108	4	2009/08	2049/08
B090611	4	2009/11	2049/11
P100601	4	2010/01	2050/01
P100501	2	2010/01	2050/01
P100401	1	2010/01	2050/01
P100301	4	2010/01	2050/01
P100201	5	2010/01	2050/01
B100201	9	2010/01	2050/01
P100101	6	2010/01	2050/01

TABLE A.2. Startup and Shutdown Dates of Middle Case Generic Reactors (contd)

<u>Reactor Name</u>	<u>Region</u>	<u>Startup</u>	<u>Shutdown</u>
B100101	2	2010/01	2050/01
B100302	3	2010/02	2050/02
P100705	9	2010/05	2050/05
B110301	1	2011/01	2051/01
P110401	4	2011/01	2051/01
P110501	3	2011/01	2051/01
P110601	5	2011/01	2051/01
P110201	4	2011/01	2051/01
P110301	5	2011/01	2051/01
P110701	6	2011/01	2051/01
P110101	4	2011/01	2051/01
B110201	5	2011/01	2051/01
B110101	4	2011/01	2051/01
B110406	4	2011/06	2051/06
P110812	4	2011/12	2051/12
B120201	5	2012/01	2052/01
B120101	6	2012/01	2052/01
P120201	9	2012/01	2052/01
P120101	2	2012/01	2052/01
P120301	4	2012/01	2052/01
P120401	5	2012/01	2052/01
P120503	1	2012/03	2052/03
B120308	3	2012/08	2052/08
P130101	3	2013/01	2053/01
P130501	10	2013/01	2053/01
P130201	4	2013/01	2053/01
P130301	7	2013/01	2053/01
P130401	5	2013/01	2053/01
P130601	4	2013/01	2053/01
B130301	2	2013/01	2053/01
B130201	7	2013/01	2053/01
B130101	4	2013/01	2053/01
P130702	7	2013/02	2053/02
B140201	4	2014/01	2054/01
P140301	4	2014/01	2054/01
P140201	9	2014/01	2054/01
P140401	5	2014/01	2054/01
P140101	2	2014/01	2054/01
B140101	9	2014/01	2054/01
P140505	3	2014/05	2054/05

TABLE A.2. Startup and Shutdown Dates of Middle Case Generic Reactors (contd)

<u>Reactor Name</u>	<u>Region</u>	<u>Startup</u>	<u>Shutdown</u>
B140308	5	2014/08	2054/08
B150201	4	2015/01	2055/01
P150501	4	2015/01	2055/01
P150301	5	2015/01	2055/01
P150201	8	2015/01	2055/01
P150101	4	2015/01	2055/01
B150101	4	2015/01	2055/01
P150401	5	2015/01	2055/01
P150608	3	2015/08	2055/08
B150311	3	2015/11	2055/11
P160501	6	2016/01	2056/01
P160301	2	2016/01	2056/01
B160101	5	2016/01	2056/01
B160201	1	2016/01	2056/01
P160201	4	2016/01	2056/01
P160401	9	2016/01	2056/01
P160101	5	2016/01	2056/01
P160606	4	2016/06	2056/06
B160309	4	2016/09	2056/09
P170101	5	2017/01	2057/01
B170101	6	2017/01	2057/01
P170201	5	2017/01	2057/01
P170301	3	2017/01	2057/01
P170407	4	2017/07	2057/07
B170211	2	2017/11	2057/11
P180501	2	2018/01	2058/01
P180401	4	2018/01	2058/01
P180201	1	2018/01	2058/01
B180201	4	2018/01	2058/01
P180301	5	2018/01	2058/01
B180101	9	2018/01	2058/01
P180101	7	2018/01	2058/01
P180605	9	2018/05	2058/05
B180308	5	2018/08	2058/08
P190301	5	2019/01	2059/01
P190201	6	2019/01	2059/01
P190101	4	2019/01	2059/01
B190101	3	2019/01	2059/01
P190406	3	2019/01	2059/01

TABLE A.2. Startup and Shutdown Dates of Middle Case Generic Reactors (contd)

<u>Reactor Name</u>	<u>Region</u>	<u>Startup</u>	<u>Shutdown</u>
B190209	4	2019/09	2059/09
P200101	4	2020/01	2060/01
P200201	5	2020/01	2060/01
P200301	4	2020/01	2060/01
B200101	5	2020/01	2060/01
P200407	1	2020/07	2060/07
B200211	4	2020/11	2060/11

Note: The generic reactor name consists of four identification fields:

- The first character denotes reactor type. P for PWR and B for BWR
- The next two characters are the last two digits of the startup year
- The second set of two characters denotes the sequence within a year
- The last two characters denote the startup month.

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges

REACTOR	Inv												Assemblies												Inv												MTIHM											
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	:	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994																									
ARK NUCLEAR 1	384	0	51	0	57	0	46	64	0	66	0	:	178	0	24	0	26	0	21	30	0	31	0																									
ARK NUCLEAR 2	160	52	56	0	61	0	50	68	0	69	0	:	66	22	24	0	26	0	21	28	0	29	0																									
B VALLEY 1	218	0	57	47	0	51	53	0	38	71	0	:	100	0	26	22	0	24	24	0	18	33	0																									
B VALLEY 2	0	0	0	0	0	39	0	73	0	59	0	:	0	0	0	0	0	18	0	34	0	27	0																									
BELLEFONTE 1	0	0	0	0	0	44	0	0	59	0	0	:	0	0	0	0	0	20	0	0	25	0	0																									
BELLEFONTE 2	0	0	0	0	0	0	0	0	0	0	44	:	0	0	0	0	0	0	0	0	0	0	20																									
BIG ROCK 1	172	17	16	17	0	17	17	20	15	21	16	:	22	2	2	2	0	2	2	3	2	3	2																									
BRAIDWOOD 1	0	0	0	0	70	53	34	48	36	54	30	:	0	0	0	0	30	22	14	20	15	23	13																									
BRAIDWOOD 2	0	0	0	0	0	42	42	51	34	54	29	:	0	0	0	0	0	18	18	22	14	23	12																									
BROWNS FERRY1	1068	188	0	197	0	182	0	0	148	0	170	:	201	34	0	36	0	33	0	0	27	0	31																									
BROWNS FERRY2	1188	0	175	0	0	168	0	267	0	271	0	:	222	0	32	0	0	31	0	49	0	49	0																									
BROWNS FERRY3	1004	0	199	0	237	0	172	0	150	0	173	:	187	0	36	0	43	0	32	0	27	0	31																									
BRUNSWICK 1	512	0	61	0	135	121	0	167	92	0	110	:	96	0	11	0	25	23	0	31	17	0	21																									
BRUNSWICK 2	752	0	141	105	0	121	128	0	94	171	0	:	141	0	26	20	0	23	24	0	18	32	0																									
BYRON 1	0	0	50	33	48	44	41	49	34	54	30	:	0	0	21	14	20	19	17	21	14	23	13																									
BYRON 2	0	0	0	33	48	41	38	50	35	53	29	:	0	0	0	14	20	17	16	21	15	22	12																									
CALLAWAY 1	0	0	49	54	0	57	56	0	49	78	0	:	0	0	23	25	0	25	24	0	21	33	0																									
CALVERT CLF 1	468	67	57	0	71	52	0	70	45	0	47	:	179	26	22	0	28	20	0	27	18	0	18																									
CALVERT CLF 2	391	57	0	51	79	0	55	70	0	70	47	:	149	22	0	20	31	0	22	27	0	27	18																									
CARROLL COUNTY-1	0	0	0	0	0	0	0	0	0	0	0	:	0	0	0	0	0	0	0	0	0	0	0																									
CARROLL COUNTY-2	0	0	0	0	0	0	0	0	0	0	0	:	0	0	0	0	0	0	0	0	0	0	0																									
CATAWBA 1	0	37	0	42	47	45	43	57	36	50	0	:	0	16	0	18	20	19	18	24	15	21	0																									
CATAWBA 2	0	0	0	0	53	48	38	0	36	60	33	:	0	0	0	0	22	20	16	0	15	25	14																									
CLINTON 1	0	0	0	149	123	0	168	131	0	250	89	:	0	0	0	27	23	0	31	24	0	46	16																									
COMANCHE PK 1	0	0	0	43	49	47	47	55	40	59	37	:	0	0	0	20	23	22	22	16	24	15																										
COMANCHE PK 2	0	0	0	40	56	47	48	56	38	62	39	:	0	0	0	17	24	20	20	15	25	16																										
COOK 1	466	73	60	0	71	0	56	74	0	77	0	:	204	31	27	0	33	0	26	34	0	35	0																									
COOK 2	336	56	0	56	0	61	65	0	53	0	53	:	154	23	0	23	0	25	26	0	21	0	21																									
COOPER STN	914	0	105	63	110	79	84	112	67	113	72	:	172	0	19	12	20	14	15	20	12	21	13																									
CRYSTAL RVR 3	253	17	37	39	0	40	36	0	32	53	0	:	118	0	17	18	0	19	17	0	15	25	0																									
DAVIS-BESSE 1	197	0	49	47	0	44	48	0	36	68	0	:	93	0	23	22	0	21	22	0	17	32	0																									
DIABLO CNYN 1	0	0	49	43	54	0	45	62	33	63	0	:	0	0	23	20	25	0	21	28	15	29	0																									
DIABLO CNYN 2	0	0	53	43	0	50	43	60	38	50	0	:	0	0	24	20	0	23	20	28	17	23	0																									
DRESDEN 1	683	0	0	0	0	0	0	0	0	0	0	:	69	0	0	0	0	0	0	0	0	0	0																									
DRESDEN 2	1312	0	111	122	0	131	139	0	102	186	0	:	247	0	20	22	0	24	25	0	18	33	0																									
DRESDEN 3	1168	92	107	0	143	103	0	146	79	0	97	:	222	17	20	0	26	19	0	27	15	0	18																									
DUANE ARNOLD	576	86	0	79	95	0	79	115	0	116	74	:	107	16	0	14	17	0	14	21	0	21	14																									
ENRICO FERMI2	0	0	206	156	0	219	0	256	0	272	0	:	0	0	38	29	0	40	0	47	0	50	0																									
FARLEY 1	273	59	55	0	56	51	0	65	41	0	43	:	125	27	25	0	26	24	0	30	19	0	20																									
FARLEY 2	116	57	56	45	0	46	53	0	38	70	0	:	53	26	26	21	0	21	24	0	18	32	0																									
FITZPATRICK	816	154	122	0	162	117	0	159	99	0	104	:	153	28	22	0	30	22	0	29	18	0	19																									
FORT CALHOUN	305	47	0	33	34	0	39	45	0	42	35	:	112	17	0	12	12	0	14	16	0	15	13																									
GINNA	332	29	22	17	25	20	20	26	18	27	18	:	128	11	0	6	9	7	7	9	6	9	6																									
GRAND GULF 1	0	0	199	0	237	174	0	233	141	246	0	:	0	0	37	0	44	32	0	41	25	43	0																									
GRAND GULF 2	0	0	0	0	0	0	0	0	0	263	142	:	0	0	0	0	0	0	0	0	0	48	26																									
HADDAM NECK	545	35	0	34	46	37	0	49	27	0	32	:	225	14	0	14	19	15	0	20	11	0	13																									
HARRIS 1	0	0	0	0	45	38	0	45	31	0	32	:	0	0	0	0	21	18	0	21	14	0	15																									
HATCH 1	957	117	74	66	104	89	91	121	65	123	86	:	175	21	14	12	19	16	17	22	12	22	16																									

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Inv												MTIHM											
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994		
HATCH 2	446	23	89	74	114	92	97	125	71	130	83	82	4	16	14	21	17	18	23	13	24	15		
HOPE CRK 1	0	0	0	118	213	185	0	244	182	0	144	0	0	0	21	39	34	0	44	29	0	26		
HUMBOLDT BAY	390	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0		
INDIAN PT 1	160	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0		
INDIAN PT 2	396	48	0	45	0	37	48	0	38	69	0	179	22	0	21	0	17	22	0	17	32	0		
INDIAN PT 3	216	69	0	53	71	0	56	0	48	72	0	99	32	0	24	32	0	26	0	22	33	0		
KEWAUNEE	336	29	30	23	34	26	28	36	22	38	23	132	11	11	9	13	10	11	14	8	15	9		
LACROSSE	213	5	15	14	21	16	17	23	12	23	15	25	1	2	2	2	2	2	3	1	3	2		
LASALLE CTY 1	0	166	0	141	181	0	140	221	0	213	139	0	30	0	26	33	0	25	40	0	39	25		
LASALLE CTY 2	0	0	180	0	292	193	0	201	128	0	138	0	0	33	0	53	35	0	37	23	0	25		
LIMERICK 2	0	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	20		
LIMERICK 1	0	0	280	0	255	104	0	160	129	0	135	0	0	52	0	47	19	0	29	24	0	25		
MAINE YANKEE	721	51	0	47	61	0	49	68	0	70	44	273	19	0	18	23	0	18	26	0	26	17		
MCGUIRE 1	60	60	45	41	55	40	44	0	35	56	38	28	29	21	18	23	17	19	0	15	24	16		
MCGUIRE 2	0	40	50	37	58	43	0	59	33	61	37	0	18	23	17	24	18	0	25	14	26	16		
WILLSTONE 1	1336	0	167	127	0	124	0	182	0	195	112	253	0	30	22	0	22	0	32	0	34	20		
WILLSTONE 2	376	66	46	0	57	54	0	59	33	0	46	145	27	19	0	23	22	0	24	13	0	19		
WILLSTONE 3	0	0	0	38	82	43	0	59	42	50	39	0	0	0	18	29	20	0	27	19	23	18		
WONTICELLO	1136	95	68	65	96	70	74	97	54	0	63	212	17	12	12	17	12	13	17	10	0	11		
NINE MILE PT1	1244	0	149	0	176	0	135	0	106	0	122	235	0	26	0	31	0	24	0	19	0	21		
NINE MILE PT2	0	0	0	0	223	0	170	251	0	264	0	0	0	0	0	40	0	31	49	0	45	0		
NORTH ANNA 1	250	0	58	39	0	50	49	0	37	87	0	115	0	27	18	0	23	23	0	17	31	0		
NORTH ANNA 2	174	0	55	42	59	0	50	65	0	86	42	80	0	25	19	27	0	23	30	0	30	19		
OCONEE 1	494	0	50	0	59	44	0	57	0	64	39	230	0	23	0	27	20	0	26	0	30	18		
OCONEE 2	380	49	0	46	58	0	45	0	38	86	0	176	23	0	21	27	0	21	0	18	31	0		
OCONEE 3	412	41	0	42	0	48	50	0	36	0	43	191	19	0	19	0	22	23	0	17	0	20		
OYSTER CRK 1	980	0	153	0	187	0	0	184	0	91	118	183	0	27	0	33	1	0	32	0	16	21		
PALISADES	477	52	0	43	59	0	0	87	33	0	40	193	20	0	17	23	0	26	13	0	16	0		
PALO VERDE 1	0	0	82	43	52	50	47	57	40	61	36	0	0	26	17	21	21	20	25	17	27	16		
PALO VERDE 2	0	0	0	40	59	53	44	56	39	62	37	0	0	0	17	24	21	19	24	17	27	16		
PALO VERDE 3	0	0	0	0	55	63	44	65	39	50	39	0	0	0	0	23	25	18	28	17	22	17		
PEACHBOTTOM 2	1522	0	193	0	194	167	0	226	132	0	146	273	0	35	0	35	30	0	42	24	0	27		
PEACHBOTTOM 3	1218	218	0	176	0	188	171	0	132	239	0	228	40	0	32	0	34	31	0	24	44	0		
PERRY 1	0	0	0	149	0	186	163	0	148	233	0	0	0	0	27	0	34	30	0	27	42	0		
PERRY 2	0	0	0	0	0	0	0	0	101	226	0	0	0	0	0	0	0	0	0	18	41	0		
PILGRIM 1	1123	0	155	118	0	133	0	179	0	180	0	212	0	28	21	0	24	0	32	0	32	0		
POINT BEACH 1	394	29	20	21	26	23	22	30	21	32	21	157	12	8	8	10	8	8	11	7	11	7		
POINT BEACH 2	379	21	20	21	27	24	22	31	20	31	21	151	8	8	8	10	9	8	11	7	11	7		
PRAIRIE ISL 1	320	0	12	17	23	23	25	43	22	0	24	114	0	4	6	8	8	9	16	8	0	9		
PRAIRIE ISL 2	321	0	45	0	31	26	29	39	23	38	0	127	0	16	0	11	9	10	13	8	13	0		
QUAD CITIES 1	1240	142	0	140	161	0	122	163	0	169	108	234	25	0	25	28	0	22	29	0	30	19		
QUAD CITIES 2	1100	137	121	0	152	114	0	152	95	0	103	209	24	21	0	27	20	0	27	17	0	18		
RANCHO SECO 1	207	51	40	0	56	48	0	62	35	0	38	96	24	19	0	26	22	0	29	16	0	18		
ROBINSON 2	222	0	36	29	48	0	34	48	29	49	0	96	0	15	12	21	0	15	21	12	21	0		
RVR BEND 1	0	0	0	0	56	114	102	128	91	142	80	0	0	0	0	10	21	19	24	17	26	15		
SALEM 1	271	0	61	46	0	37	59	0	45	73	0	124	0	28	21	0	17	27	0	21	34	0		
SALEM 2	133	0	43	0	44	49	0	75	44	0	50	61	0	20	0	20	22	0	34	20	0	23		
SAN ONOFRE 1	94	0	28	0	38	0	37	0	27	0	31	35	0	10	0	14	0	14	0	10	0	12		
SAN ONOFRE 2	65	0	67	57	0	63	0	85	0	89	0	28	0	29	24	0	27	0	36	0	38	0		

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Inv											MTIHM										
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
SAN ONOFRE 3	0	46	65	0	70	0	67	0	52	0	57	0	20	28	0	30	0	29	0	22	0	24
SEABROOK 1	0	0	0	36	64	44	43	56	40	61	34	0	0	0	15	27	19	18	24	17	26	14
SEABROOK-2	0	0	0	0	0	0	0	0	0	63	42	0	0	0	0	0	0	0	0	0	27	18
SEQUOYAH 1	140	42	0	42	63	0	53	0	44	77	0	64	19	0	19	29	0	24	0	20	35	0
SEQUOYAH 2	136	0	48	43	0	51	55	0	44	0	49	62	0	22	20	0	24	25	0	20	0	22
SHOREHAM	0	0	0	142	0	144	166	0	76	134	0	0	0	0	26	0	26	30	0	14	24	0
SOUTH TEXAS 1	0	0	0	0	51	49	28	47	28	39	30	0	0	0	0	27	26	15	25	15	21	16
SOUTH TEXAS 2	0	0	0	0	0	0	0	35	28	47	30	0	0	0	0	0	0	0	19	15	25	16
ST LUCIE 1	372	73	0	47	80	0	55	89	0	77	62	142	28	0	17	24	0	20	27	0	29	19
ST LUCIE 2	80	0	74	54	0	62	57	0	50	78	0	31	0	27	20	0	24	22	0	19	30	0
SUMMER 1	44	97	0	52	55	50	47	0	40	62	45	20	45	0	24	25	23	22	0	18	28	21
SURRY 1	477	0	52	38	0	42	44	0	34	57	0	217	0	24	17	0	19	20	0	16	26	0
SURRY 2	349	48	45	0	54	43	0	59	31	0	37	158	22	21	0	25	20	0	27	14	0	17
SUSQUEHANNA 1	0	158	172	156	0	166	167	0	131	247	0	0	29	32	29	0	30	29	0	23	43	0
SUSQUEHANNA 2	0	0	194	0	223	167	0	216	128	0	145	0	0	36	0	41	31	0	38	22	0	26
3 MILE ISL 1	208	0	0	53	60	0	50	65	0	71	45	97	0	0	25	28	0	23	30	0	33	21
TROJAN	283	26	37	35	41	32	28	37	23	38	25	130	12	17	16	19	15	13	17	11	18	12
TURKEY PT 3	387	28	36	0	44	39	0	48	30	0	32	175	13	16	0	20	18	0	22	14	0	15
TURKEY PT 4	379	0	0	48	0	34	36	0	30	50	0	172	0	0	22	0	16	17	0	14	23	0
VOGTLE 1	0	0	0	0	46	0	63	61	38	53	41	0	0	0	0	21	0	29	28	18	24	19
VOGTLE 2	0	0	0	0	0	0	36	67	38	52	41	0	0	0	0	0	0	17	31	18	24	19
VT YANKEE 1	1202	86	0	71	69	61	64	85	48	87	57	224	12	0	13	13	11	12	16	9	16	10
WASH NUCLEAR2	0	0	152	108	142	104	117	150	85	153	97	0	0	28	20	26	19	21	26	15	27	17
WNP-1	0	0	0	0	0	0	0	0	55	149	40	0	0	0	0	0	0	0	0	25	68	18
WNP-3	0	0	0	0	0	0	0	78	43	61	43	0	0	0	0	0	0	0	33	17	25	19
WATERFORD 3	0	0	59	0	79	47	44	67	0	70	39	0	0	25	0	31	19	19	29	0	30	17
WATTS BAR 1	0	27	69	0	52	0	52	0	44	0	43	0	12	31	0	23	0	24	0	20	0	20
WATTS BAR 2	0	0	0	35	70	0	44	22	35	0	38	0	0	0	16	31	0	20	10	16	0	17
WOLF CRK 1	0	0	0	30	37	35	31	43	30	45	25	0	0	0	14	17	16	14	20	14	21	12
YANKEE-ROWE 1	300	27	0	25	33	0	27	34	22	0	22	74	6	0	6	8	0	6	8	5	0	5
ZION 1	433	27	35	32	42	33	33	45	26	45	29	197	12	16	15	19	15	15	21	12	21	13
ZION 2	422	40	39	31	42	33	34	45	26	46	29	192	18	18	14	19	15	16	21	12	21	13
BRUNSWICK-1 PWR POOL	160											69										
BRUNSWICK-2 PWR POOL	144											141										
MORRIS-BWR POOL	879											169										
MORRIS-PWR POOL	350											132										
WEST VALLEY BWR	310											54										
WEST VALLEY PWR	121											46										

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
ARK NUCLEAR 1	55	0	67	41	0	63	0	71	0	54	25	0	31	19	0	29	0	33	0	25
ARK NUCLEAR 2	60	0	74	52	0	68	0	75	0	56	25	0	31	22	0	28	0	31	0	23
B VALLEY 1	60	42	0	45	53	0	37	78	0	59	28	19	0	21	24	0	17	36	0	27
B VALLEY 2	77	0	59	51	0	63	38	0	40	67	35	0	27	24	0	29	18	0	18	31
BELLEFONTE 1	78	38	0	73	53	0	51	90	0	72	36	17	0	33	24	0	23	41	0	33
BELLEFONTE 2	80	46	0	52	0	69	51	0	51	85	34	20	0	24	0	31	23	0	23	39
BIG ROCK 1	0	14	21	14	17	18	15	84	0	0	0	2	3	2	2	2	2	11	0	0
BRAIDWOOD 1	55	34	48	45	36	49	30	54	30	44	23	14	20	19	15	21	13	23	13	19
BRAIDWOOD 2	54	32	48	44	35	48	30	54	30	43	23	14	20	19	15	20	13	23	13	18
BROWNS FERRY1	0	156	0	167	0	261	0	289	0	223	0	28	0	30	0	47	0	52	0	40
BROWNS FERRY2	230	0	290	0	199	0	162	0	158	0	42	0	53	0	36	0	29	0	29	0
BROWNS FERRY3	0	158	0	167	0	0	161	0	161	0	0	29	0	30	0	0	29	0	29	0
BRUNSWICK 1	148	0	184	107	0	166	93	0	98	141	28	0	34	20	0	31	17	0	18	26
BRUNSWICK 2	148	101	0	106	127	0	93	183	0	141	28	19	0	20	24	0	17	34	0	26
BYRON 1	54	33	49	45	35	49	29	54	30	44	23	14	21	19	15	21	12	23	13	19
BYRON 2	54	32	47	44	35	48	30	54	30	44	23	14	20	19	15	20	13	23	13	19
CALLAWAY 1	69	50	0	52	57	0	51	84	0	67	29	21	0	22	24	0	22	36	0	28
CALVERT CLF 1	58	0	77	48	0	68	50	0	50	59	23	0	30	19	0	27	20	0	20	23
CALVERT CLF 2	0	48	71	0	53	66	0	76	48	0	0	19	28	0	21	26	0	30	19	0
CARROLL COUNTY-1	0	0	0	0	0	0	0	81	31	48	0	0	0	0	0	0	0	34	13	19
CARROLL COUNTY-2	0	0	0	0	0	0	0	54	31	46	0	0	0	0	0	0	0	23	13	19
CATAWBA 1	61	35	50	50	37	50	37	54	0	50	26	15	21	21	16	21	16	23	0	21
CATAWBA 2	60	35	72	41	35	0	37	56	36	44	25	15	30	17	15	0	16	24	15	19
CLINTON 1	0	159	121	0	155	0	114	194	0	155	0	29	22	0	28	0	21	35	0	28
COMANCHE PK 1	62	40	53	51	40	55	41	61	39	50	25	16	21	21	16	22	17	25	16	20
COMANCHE PK 2	63	40	53	51	41	54	41	60	39	49	25	16	21	21	17	22	17	24	16	20
COOK 1	66	47	0	54	54	0	48	0	48	85	30	22	0	25	25	0	22	0	22	30
COOK 2	73	0	89	58	0	172	0	91	56	0	29	0	36	23	0	70	0	37	23	0
COOPER STN	95	68	118	69	80	105	68	119	68	87	17	12	22	13	15	19	12	22	12	16
CRYSTAL RVR 3	46	34	0	34	39	0	35	58	0	44	21	16	0	16	18	0	16	27	0	20
DAVIS-BESSE 1	55	39	0	40	48	0	37	71	0	53	26	18	0	19	22	0	17	33	0	25
DIABLO CNYN 1	50	39	64	0	44	64	33	0	33	55	23	18	29	0	20	29	15	0	15	25
DIABLO CNYN 2	65	33	69	0	38	59	34	0	32	54	30	15	32	0	17	27	16	0	15	25
DRESDEN 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRESDEN 2	158	109	0	115	136	0	104	199	0	153	28	20	0	21	24	0	19	36	0	28
DRESDEN 3	131	0	163	95	0	147	86	0	86	125	24	0	30	17	0	27	16	0	16	23
DUANE ARNOLD	0	66	123	0	84	110	0	123	65	0	0	12	22	0	15	20	0	22	12	0
ENRICO FERMI2	276	155	0	225	0	249	0	271	158	0	50	28	0	41	0	45	0	49	29	0
FARLEY 1	61	0	72	46	0	63	43	0	39	58	28	0	33	21	0	29	20	0	18	27
FARLEY 2	57	45	0	44	53	0	39	77	0	54	26	21	0	20	24	0	18	36	0	25
FITZPATRICK	143	0	175	107	0	160	108	0	106	137	26	0	31	19	0	29	19	0	19	25
FORT CALHOUN	0	28	41	0	39	45	0	41	25	0	0	10	15	0	14	16	0	15	9	0
GINNA	23	19	30	19	20	26	19	30	19	23	8	7	11	7	7	9	7	11	7	8
GRAND GULF 1	218	148	0	151	189	0	149	274	143	0	38	26	0	27	33	0	26	48	25	0
GRAND GULF 2	200	129	220	158	143	214	124	219	127	186	37	24	40	29	26	39	23	40	23	34
HADDAM NECK	42	31	0	30	37	47	0	55	28	0	17	13	0	12	15	19	0	22	12	0
HARRIS 1	53	0	44	0	33	52	0	49	33	0	25	0	20	0	15	24	0	23	15	0
HATCH 1	104	72	131	82	87	118	64	140	67	101	19	13	24	15	18	22	12	26	12	18

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies										WTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
HATCH 2	112	76	140	81	98	125	68	142	73	108	20	14	26	15	18	23	12	26	13	20
HOPE CRK 1	271	0	228	186	0	231	151	0	149	247	49	0	41	34	0	42	27	0	27	45
HUMBOLDT BAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN PT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN PT 2	58	41	0	42	51	0	41	74	0	57	27	19	0	19	23	0	19	34	0	26
INDIAN PT 3	64	0	79	55	0	68	0	89	43	0	29	0	36	25	0	31	0	41	20	0
KEWAUNEE	32	22	41	24	27	33	23	41	23	30	12	8	16	9	10	13	9	16	9	12
LACROSSE	20	13	25	14	17	23	11	24	13	72	2	1	3	2	2	3	1	3	1	8
LASALLE CTY 1	0	126	230	0	156	207	0	230	129	0	0	23	42	0	28	38	0	42	23	0
LASALLE CTY 2	190	0	230	133	0	208	132	0	129	176	34	0	43	24	0	38	24	0	23	32
LIMERICK 2	0	253	155	0	272	244	0	155	193	0	0	46	28	0	50	44	0	28	35	0
LIMERICK 1	219	0	186	152	0	188	143	0	137	202	40	0	34	28	0	34	26	0	25	37
MAINE YANKEE	0	42	74	0	51	66	0	74	43	0	0	16	28	0	19	25	0	28	16	0
MCGUIRE 1	52	35	62	39	42	0	36	65	36	46	22	15	26	17	18	0	15	28	15	19
MCGUIRE 2	54	34	65	0	44	57	37	62	36	47	23	14	28	0	19	24	16	26	15	20
MILLSTONE 1	0	110	0	121	0	168	0	208	107	0	0	20	0	21	0	30	0	37	19	0
MILLSTONE 2	51	0	67	49	0	58	35	0	38	61	21	0	27	20	0	24	14	0	15	25
MILLSTONE 3	0	39	51	52	37	65	37	0	39	43	0	18	24	24	17	30	17	0	18	20
MONTICELLO	85	58	92	0	95	83	59	107	59	82	15	10	16	0	17	15	10	19	10	15
NINE MILE PT1	0	114	0	117	0	184	0	207	0	158	0	20	0	21	0	32	0	36	0	28
NINE MILE PT2	249	0	224	184	0	227	0	250	0	205	46	0	40	33	0	41	0	45	0	37
NORTH ANNA 1	57	38	0	42	49	0	39	72	0	54	26	18	0	19	23	0	18	33	0	25
NORTH ANNA 2	0	39	71	0	48	62	0	73	38	0	0	18	33	0	22	29	0	34	18	0
OCONEE 1	0	38	68	0	45	0	38	65	0	52	0	18	32	0	21	0	18	30	0	24
OCONEE 2	57	39	0	40	0	66	0	67	38	0	26	18	0	19	0	31	0	31	18	0
OCONEE 3	56	0	72	0	47	0	38	72	0	54	26	0	33	0	22	0	18	33	0	25
OYSTER CRK 1	0	41	0	97	0	156	106	0	98	0	0	7	0	17	0	28	19	0	17	0
PALISADES	64	34	0	41	45	0	34	66	0	53	25	13	0	16	18	0	13	26	0	21
PALO VERDE 1	62	39	55	52	41	56	39	62	38	50	27	17	24	23	18	24	17	27	17	22
PALO VERDE 2	62	39	55	52	41	56	39	61	38	50	27	17	24	23	18	24	17	27	17	22
PALO VERDE 3	63	37	70	44	40	66	39	59	38	59	27	16	31	19	17	29	17	26	17	26
PEACHBOTTOM 2	200	0	247	144	0	220	143	0	145	188	37	0	46	27	0	41	26	0	27	35
PEACHBOTTOM 3	206	143	0	148	175	0	142	258	0	190	38	26	0	27	32	0	26	47	0	35
PERRY 1	235	143	0	191	154	0	136	232	0	187	43	26	0	35	28	0	25	42	0	34
PERRY 2	305	173	0	217	195	0	159	298	0	251	56	32	0	40	36	0	29	54	0	46
PILGRIM 1	157	106	0	115	0	180	0	195	0	154	28	19	0	20	0	32	0	35	0	27
POINT BEACH 1	27	21	34	22	22	28	22	35	22	26	10	7	12	8	8	10	8	12	8	9
POINT BEACH 2	27	22	33	22	23	30	22	34	22	26	10	8	12	8	8	11	8	12	8	9
PRAIRIE ISL 1	32	25	41	25	0	37	25	41	25	31	12	9	15	9	0	14	9	15	9	11
PRAIRIE ISL 2	33	25	41	25	28	38	0	41	25	31	11	8	14	8	9	13	0	14	8	10
QUAD CITIES 1	0	100	182	0	123	163	0	180	101	0	0	18	32	0	22	29	0	32	18	0
QUAD CITIES 2	135	0	173	102	0	156	104	0	102	132	24	0	30	18	0	27	18	0	18	23
RANCHO SECO 1	50	0	61	37	0	55	37	0	37	48	23	0	28	17	0	25	17	0	17	22
ROBINSON 2	42	30	54	31	0	46	31	53	30	0	18	13	23	13	0	21	13	23	13	0
RVR BEND 1	144	89	128	119	93	131	84	143	82	114	26	16	23	22	17	24	15	26	15	21
SALEM 1	61	47	0	47	53	0	47	78	0	60	28	22	0	22	24	0	22	36	0	28
SALEM 2	63	0	77	47	0	71	47	0	47	59	29	0	35	22	0	33	22	0	22	27
SAN ONOFRE 1	0	29	0	33	46	157	0	0	0	0	0	11	0	12	17	58	0	0	0	0

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
SAN ONOFRE 2	74	0	90	0	63	0	58	0	59	70	32	0	38	0	27	0	25	0	25	30
SAN ONOFRE 3	0	57	93	0	66	0	58	0	59	0	0	24	40	0	28	0	25	0	25	0
SEABROOK 1	62	37	54	51	40	55	33	60	34	49	26	16	23	22	17	23	14	25	14	21
SEABROOK-2	62	37	67	47	42	64	36	65	37	56	26	16	28	20	18	27	15	28	16	24
SEQUOYAH 1	84	47	0	49	0	73	48	0	49	62	29	22	0	22	0	34	22	0	22	28
SEQUOYAH 2	65	0	82	0	57	74	0	81	48	0	30	0	38	0	26	34	0	37	22	0
SHOREHAM	99	85	0	0	84	0	84	0	0	132	18	15	0	0	15	0	15	1	0	24
SOUTH TEXAS 1	48	26	54	34	27	49	26	45	26	43	26	14	29	18	15	26	14	24	14	23
SOUTH TEXAS 2	48	28	48	37	31	48	29	48	28	42	26	15	26	20	17	26	16	26	15	23
ST LUCIE 1	69	0	96	52	0	81	52	0	64	63	26	0	30	19	0	25	19	0	20	23
ST LUCIE 2	66	52	0	53	58	0	52	84	0	63	25	20	0	20	22	0	20	32	0	24
SUMMER 1	52	0	75	38	51	58	0	76	34	56	24	0	35	17	23	27	0	35	16	26
SURRY 1	51	35	0	37	41	0	38	63	0	48	23	16	0	17	19	0	17	29	0	22
SURRY 2	51	0	64	35	0	57	35	0	36	46	23	0	29	16	0	26	16	0	17	21
SUSQUEHANNA 1	179	130	0	141	167	0	138	245	0	188	31	23	0	25	29	0	24	43	0	33
SUSQUEHANNA 2	197	0	244	142	0	222	137	0	134	190	35	0	43	25	0	39	24	0	24	34
3 MILE ISL 1	0	42	76	0	52	68	0	76	41	0	0	19	35	0	24	32	0	35	19	0
TRIJAN	32	24	42	24	28	36	25	42	24	32	15	11	19	11	13	17	12	19	11	15
TURKEY PT 3	43	0	53	33	0	46	33	0	33	41	20	0	24	15	0	21	15	0	15	19
TURKEY PT 4	44	32	0	33	37	0	33	53	0	41	20	15	0	15	17	0	15	24	0	19
VOGTLE 1	65	34	72	46	37	67	35	60	34	59	30	16	33	21	17	31	16	28	16	27
VOGTLE 2	63	34	72	45	36	65	35	59	34	58	29	16	33	21	17	30	16	27	16	27
VT YANKEE 1	75	51	95	53	64	83	50	94	50	71	14	9	17	10	12	15	9	17	9	13
WASH NUCLEAR2	132	90	167	96	112	147	93	165	91	128	23	16	29	17	20	26	16	29	16	23
WNP-1	63	38	67	47	42	64	36	65	37	55	29	17	31	21	19	29	16	30	17	25
WNP-3	69	41	73	51	47	70	35	70	40	59	30	18	32	22	20	30	15	30	17	25
WATERFORD 3	70	34	0	61	36	72	35	0	49	58	30	15	0	26	15	31	15	0	21	25
WATTS BAR 1	75	0	68	54	0	68	0	77	47	0	34	0	31	25	0	31	0	35	22	0
WATTS BAR 2	0	46	87	0	49	81	0	73	0	61	0	21	40	0	22	37	0	34	0	28
WOLF CRK 1	46	29	41	38	31	40	26	45	26	36	21	13	19	18	14	18	12	21	12	17
YANKEE-ROWE 1	34	0	43	76	0	0	0	0	0	0	8	0	10	18	0	0	0	0	0	0
ZION 1	40	27	49	29	33	46	28	51	27	38	18	12	22	13	15	21	13	23	12	17
ZION 2	40	27	50	29	34	44	28	51	27	38	18	12	23	13	16	20	13	23	12	17
GENERIC PWR	0	0	0	0	0	0	0	0	124	442	0	0	0	0	0	0	0	0	57	204
GENERIC BWR	0	0	0	0	0	0	0	0	285	675	0	0	0	0	0	0	0	0	52	123
TOTAL GENERIC	0	0	0	0	0	0	0	0	409	1117	0	0	0	0	0	0	0	0	109	327

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2004
ARK NUCLEAR 1	45	0	41	0	57	177	0	0	0	0	21	0	19	0	26	82	0	0	0	0
ARK NUCLEAR 2	49	0	49	0	60	0	78	59	177	0	20	0	20	0	25	0	32	25	74	0
B VALLEY 1	48	0	43	36	0	36	75	0	53	52	22	0	20	17	0	17	35	0	24	24
B VALLEY 2	0	42	55	0	56	35	0	66	38	0	0	19	25	0	26	16	0	30	18	0
BELLEFRONTE 1	58	0	69	51	0	45	0	88	49	0	26	0	31	23	0	21	0	40	22	0
BELLEFRONTE 2	0	67	69	0	94	46	0	99	49	0	0	31	31	0	43	21	0	45	22	0
BIG ROCK 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRAIDWOOD 1	45	32	40	30	43	32	37	50	48	30	19	14	17	13	18	14	16	21	20	13
BRAIDWOOD 2	44	31	40	30	43	32	36	51	48	30	19	13	17	13	18	14	15	22	20	13
BROWNS FERRY1	0	206	0	158	0	764	0	0	0	0	0	37	0	29	0	139	0	0	0	0
BROWNS FERRY2	184	0	165	0	236	0	0	235	0	216	33	0	30	0	43	0	0	43	0	39
BROWNS FERRY3	185	0	164	0	238	0	288	0	207	0	34	0	30	0	43	0	52	0	38	0
BRUNSWICK 1	0	132	105	0	152	89	0	145	135	132	0	25	20	0	28	17	0	27	25	25
BRUNSWICK 2	117	0	104	91	0	89	177	0	129	127	22	0	19	17	0	17	33	0	24	24
BYRON 1	44	32	40	28	42	32	36	50	47	26	19	14	17	12	18	14	15	21	20	11
BYRON 2	44	32	40	30	43	32	35	51	47	30	19	14	17	13	18	14	15	22	20	13
CALLAWAY 1	56	0	55	49	0	48	81	0	62	60	24	0	23	21	0	20	34	0	26	25
CALVERT CLF 1	0	53	48	0	61	48	0	51	54	217	0	21	19	0	24	19	0	20	21	85
CALVERT CLF 2	48	54	0	48	60	0	76	51	0	217	19	21	0	19	24	0	30	20	0	23
CARROLL COUNTY-1	39	38	38	29	42	29	44	56	46	41	16	15	16	12	18	12	19	24	19	17
CARROLL COUNTY-2	39	36	38	29	42	29	44	56	46	41	16	15	16	12	18	12	19	24	19	17
CATAWBA 1	44	38	42	36	45	33	0	54	54	31	19	16	18	15	19	14	0	23	23	13
CATAWBA 2	49	41	45	0	44	36	40	51	51	30	21	17	19	0	19	15	17	22	22	13
CLINTON 1	129	0	148	116	0	119	144	0	178	196	24	0	27	21	0	22	26	0	33	36
COMANCHE PK 1	52	38	48	40	49	38	42	58	51	35	21	15	19	16	20	15	17	23	21	14
COMANCHE PK 2	52	38	47	40	48	38	41	57	50	36	21	15	19	18	19	15	17	23	20	15
COOK 1	0	60	51	0	87	0	83	61	0	193	0	28	23	0	31	0	38	28	0	89
COOK 2	57	0	56	55	0	56	87	0	66	193	23	0	23	22	0	23	35	0	27	78
COOPER STN	548	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
CRYSTAL RVR 3	35	0	34	34	0	34	55	0	40	40	16	0	16	16	0	16	25	0	19	19
DAVIS-BESSE 1	44	0	39	37	0	36	69	0	50	49	21	0	18	17	0	17	32	0	23	23
DIABLO CNYN 1	0	46	37	32	0	37	64	47	46	0	0	21	17	15	0	17	29	22	21	0
DIABLO CNYN 2	36	46	0	31	53	30	0	58	50	68	17	21	0	14	24	14	0	27	23	30
DRESDEN 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRESDEN 2	128	0	724	0	0	0	0	0	0	0	23	0	130	0	0	0	0	0	0	0
DRESDEN 3	0	118	93	724	0	0	0	0	0	0	0	21	17	133	0	0	0	0	0	0
DUANE ARNOLD	77	87	0	65	99	0	124	94	0	86	14	16	0	12	18	0	23	17	0	16
ENRICO FERMI2	224	0	204	0	224	147	0	259	0	152	41	0	37	0	41	27	0	47	0	28
FARLEY 1	0	51	45	0	57	43	0	64	157	0	0	24	21	0	26	20	0	30	72	0
FARLEY 2	50	0	40	44	0	38	74	0	49	56	23	0	18	20	0	18	34	0	23	26
FITZPATRICK	0	126	105	0	145	104	0	142	127	125	0	23	19	0	26	19	0	26	23	22
FORT CALHOUN	38	40	0	30	133	0	0	0	0	0	14	14	0	11	48	0	0	0	0	0
GINNA	19	21	121	0	0	0	0	0	0	0	7	7	42	0	0	0	0	0	0	0
GRAND GULF 1	177	189	0	149	210	152	0	207	190	0	31	33	0	26	37	27	0	36	33	0
GRAND GULF 2	160	149	153	123	175	120	186	237	193	168	29	27	28	23	32	22	34	44	35	31
HADDAM NECK	35	40	157	0	0	0	0	0	0	0	14	16	65	0	0	0	0	0	0	0
HARRIS 1	40	0	36	33	0	31	35	0	44	47	19	0	17	15	0	14	16	0	20	22
HATCH 1	81	99	75	63	104	65	123	98	94	560	15	18	14	11	19	12	22	18	17	102

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
HATCH 2	89	100	78	67	113	65	139	106	99	560	16	18	14	12	21	12	25	19	18	102
HOPE CRK 1	0	154	200	0	210	138	0	243	141	0	0	28	36	0	38	25	0	44	26	0
HUMBOLDT BAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN PT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN PT 2	48	0	42	41	0	193	0	0	0	0	22	0	19	19	0	89	0	0	0	0
INDIAN PT 3	55	0	55	50	0	49	0	59	54	0	25	0	25	23	0	22	0	27	25	0
KEWAUNEE	25	28	22	23	31	121	0	0	0	0	10	11	8	9	12	46	0	0	0	0
LACROSSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LASALLE CTY 1	146	163	0	129	186	0	232	176	0	159	27	30	0	23	34	0	42	32	0	29
LASALLE CTY 2	0	163	132	0	187	127	0	179	161	0	0	30	24	0	34	23	0	33	29	0
LIMERICK 2	176	154	0	207	219	0	291	219	0	180	32	28	0	38	40	0	53	40	0	33
LIMERICK 1	0	145	164	0	168	138	0	205	109	0	0	26	30	0	31	25	0	37	20	0
MAINE YANKEE	46	52	0	217	0	0	0	0	0	0	17	20	0	81	0	0	0	0	0	0
MCQUIRE 1	43	44	38	35	0	34	66	46	43	44	18	19	16	15	0	14	28	19	18	19
MCQUIRE 2	41	44	0	35	53	33	66	46	47	44	17	19	0	15	22	14	28	19	20	19
MILLSTONE 1	117	0	580	0	0	0	0	0	0	0	21	0	103	0	0	0	0	0	0	0
MILLSTONE 2	0	45	39	0	58	40	0	51	46	52	0	18	18	0	24	16	0	21	19	21
MILLSTONE 3	52	37	45	37	61	35	0	58	54	33	24	17	21	17	28	16	0	27	25	15
MONTICELLO	67	76	484	0	0	0	0	0	0	0	12	13	86	0	0	0	0	0	0	0
NINE MILE PT1	0	148	532	0	0	0	0	0	0	0	0	26	94	0	0	0	0	0	0	0
NINE MILE PT2	162	0	188	0	206	0	168	265	0	139	29	0	34	0	37	0	30	48	0	25
NORTH ANNA 1	45	0	41	38	0	38	72	0	62	51	21	0	19	18	0	18	33	0	29	24
NORTH ANNA 2	45	49	0	38	58	0	72	73	0	56	21	23	0	18	27	0	33	34	0	26
OCONEE 1	0	48	39	0	177	0	0	0	0	0	0	22	18	0	82	0	0	0	0	0
OCONEE 2	46	0	40	37	0	177	0	0	0	0	21	0	19	17	0	82	0	0	0	0
OCONEE 3	46	0	40	0	58	177	0	0	0	0	21	0	19	0	27	82	0	0	0	0
OYSTER CRK 1	124	0	560	0	0	0	0	0	0	0	22	0	99	0	0	0	0	0	0	0
PALISADES	40	0	49	204	0	0	0	0	0	0	18	0	19	80	0	0	0	0	0	0
PALO VERDE 1	49	38	44	37	50	37	40	58	55	34	21	17	19	16	22	16	17	25	24	15
PALO VERDE 2	50	38	45	37	49	37	40	58	55	35	22	17	20	16	21	16	17	25	24	15
PALO VERDE 3	39	45	46	37	60	35	44	61	34	59	17	20	20	16	26	15	19	27	15	26
PEACHBOTTOM 2	0	176	145	0	202	764	0	0	0	0	0	33	27	0	37	141	0	0	0	0
PEACHBOTTOM 3	164	0	144	139	0	136	250	0	764	0	30	0	26	25	0	25	46	0	139	0
PERRY 1	191	0	172	132	0	147	153	0	204	127	35	0	31	24	0	27	28	0	37	23
PERRY 2	224	0	207	154	0	154	250	0	267	231	37	0	38	28	0	28	46	0	49	42
PILGRIM 1	127	0	111	580	0	0	0	0	0	0	22	0	20	103	0	0	0	0	0	0
POINT BEACH 1	21	24	121	0	0	0	0	0	0	0	7	9	43	0	0	0	0	0	0	0
POINT BEACH 2	21	23	21	121	0	0	0	0	0	0	7	8	7	43	0	0	0	0	0	0
PRAIRIE ISL 1	26	0	24	24	121	0	0	0	0	0	10	0	9	9	44	0	0	0	0	0
PRAIRIE ISL 2	27	29	25	0	32	121	0	0	0	0	9	10	8	0	11	40	0	0	0	0
QUAD CITIES 1	114	129	0	100	724	0	0	0	0	0	20	23	0	18	128	0	0	0	0	0
QUAD CITIES 2	0	120	101	0	724	0	0	0	0	0	0	21	18	0	128	0	0	0	0	0
RANCHO SECO 1	0	43	39	31	0	37	60	0	46	177	0	20	18	14	0	17	28	0	21	82
ROBINSON 2	33	38	157	0	0	0	0	0	0	0	14	16	68	0	0	0	0	0	0	0
RVR BEND 1	117	85	104	81	120	88	95	138	122	77	21	15	19	15	22	16	17	25	22	14
SALEM 1	49	0	46	46	0	45	76	0	55	54	22	0	21	21	0	21	35	0	25	25
SALEM 2	0	56	46	0	63	46	0	61	55	0	0	26	21	0	29	21	0	28	25	0
SAN ONOFRE 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
SAN ONOFRE 2	0	66	0	57	0	58	0	73	0	66	0	28	0	24	0	25	0	31	0	28
SAN ONOFRE 3	60	0	62	0	75	0	93	0	67	0	26	0	26	0	32	0	40	0	29	0
SEABROOK 1	50	36	44	32	49	37	40	56	53	33	21	15	19	14	21	16	17	24	22	14
SEABROOK-2	47	44	45	36	51	35	54	70	57	50	20	19	19	15	22	15	23	30	24	21
SEQUOYAH 1	0	58	0	47	67	0	82	63	0	58	0	27	0	22	31	0	38	29	0	27
SEQUOYAH 2	52	0	47	48	0	46	80	0	60	0	24	0	22	22	0	21	37	0	28	0
SHOREHAM	133	0	130	103	0	102	152	0	165	142	24	0	24	19	0	19	28	0	30	26
SOUTH TEXAS 1	30	33	36	26	47	25	33	47	26	44	16	18	19	14	25	13	18	25	14	24
SOUTH TEXAS 2	36	33	35	27	39	28	41	51	43	37	19	18	19	15	21	15	22	27	23	20
ST LUCIE 1	0	66	51	0	73	51	0	68	57	0	0	21	19	0	23	19	0	22	21	0
ST LUCIE 2	54	0	52	52	0	50	79	0	59	58	20	0	20	20	0	19	30	0	22	22
SUMMER 1	43	0	44	29	60	31	0	57	45	53	20	0	20	13	28	14	0	26	21	24
SURRY 1	38	0	37	35	157	0	0	0	0	0	17	0	17	16	72	0	0	0	0	0
SURRY 2	0	45	36	0	157	0	0	0	0	0	0	21	17	0	72	0	0	0	0	0
SUSQUEHANNA 1	157	0	139	135	0	133	239	0	173	175	27	0	24	24	0	23	42	0	30	31
SUSQUEHANNA 2	0	175	140	0	202	131	0	195	172	0	0	31	25	0	36	23	0	34	30	0
3 MILE ISL 1	48	53	0	39	61	177	0	0	0	0	22	25	0	18	28	82	0	0	0	0
TROJAN	26	29	24	24	33	24	40	32	29	29	12	13	11	11	15	11	18	15	13	13
TURKEY PT 3	0	39	32	157	0	0	0	0	0	0	0	18	15	72	0	0	0	0	0	0
TURKEY PT 4	34	0	32	32	157	0	0	0	0	0	16	0	15	15	72	0	0	0	0	0
VOGTLE 1	39	45	49	34	63	32	44	65	34	60	18	21	23	16	29	15	20	30	16	28
VOGTLE 2	40	45	49	34	59	32	45	65	34	58	18	21	23	16	27	15	21	30	16	27
VT YANKEE 1	60	67	53	368	0	0	0	0	0	0	11	12	10	67	0	0	0	0	0	0
WASH NUCLEAR2	105	117	94	91	134	88	163	128	116	115	18	21	17	16	24	15	29	23	20	20
WNP-1	47	44	45	35	51	35	54	70	57	50	21	20	21	16	23	16	25	32	26	23
WNP-3	50	46	49	33	53	32	55	71	58	53	22	20	21	14	23	14	24	31	25	23
WATERFORD 3	43	49	46	0	88	32	49	64	0	82	18	21	20	0	38	14	21	27	0	35
WATTS BAR 1	63	53	0	48	0	46	49	0	69	73	29	24	0	22	0	21	22	0	32	34
WATTS BAR 2	49	0	55	47	0	45	0	71	44	0	22	0	25	22	0	21	0	33	20	0
WOLF CRK 1	38	27	34	26	37	28	30	43	40	25	18	12	16	12	17	13	14	20	18	12
YANKEE-ROWE 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZION 1	33	36	27	27	193	0	0	0	0	0	15	16	12	12	88	0	0	0	0	0
ZION 2	32	36	28	27	40	193	0	0	0	0	15	16	13	12	18	88	0	0	0	0
GENERIC PWR	447	583	882	693	1388	1272	2303	3465	3196	2931	206	266	396	308	618	561	1025	1533	1405	1281
GENERIC BWR	805	1083	1273	1118	2223	1634	4342	5314	4754	5216	147	198	233	204	406	298	793	970	868	952
TOTAL GENERIC	1252	1666	2155	1811	3611	2906	6645	8779	7950	8147	353	464	629	513	1024	859	1818	2503	2272	2233

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies							MTIHM					
	2015	2016	2017	2018	2019	2020		2015	2016	2017	2018	2019	2020
ARK NUCLEAR 1	0	0	0	0	0	0	:	0	0	0	0	0	0
ARK NUCLEAR 2	0	0	0	0	0	0	:	0	0	0	0	0	0
B VALLEY 1	157	0	0	0	0	0	:	72	0	0	0	0	0
B VALLEY 2	56	46	0	36	52	0	:	26	21	0	17	24	0
BELLEFONTE 1	73	59	0	55	66	0	:	33	27	0	25	30	0
BELLEFONTE 2	67	0	60	65	0	58	:	31	0	27	30	0	26
BIG ROCK 1	0	0	0	0	0	0	:	0	0	0	0	0	0
BRAIDWOOD 1	43	45	36	32	30	53	:	18	19	15	14	13	22
BRAIDWOOD 2	42	44	36	32	30	51	:	18	19	15	14	13	22
BROWNS FERRY1	0	0	0	0	0	0	:	0	0	0	0	0	0
BROWNS FERRY2	764	0	0	0	0	0	:	139	0	0	0	0	0
BROWNS FERRY3	145	0	234	764	0	0	:	26	0	42	89	0	0
BRUNSWICK 1	560	0	0	0	0	0	:	105	0	0	0	0	0
BRUNSWICK 2	560	0	0	0	0	0	:	105	0	0	0	0	0
BYRON 1	42	45	36	27	31	51	:	18	19	15	11	13	22
BYRON 2	43	44	35	32	31	51	:	18	19	15	14	13	22
CALLAWAY 1	0	74	66	0	49	57	:	0	31	28	0	21	24
CALVERT CLF 1	0	0	0	0	0	0	:	0	0	0	0	0	0
CALVERT CLF 2	0	0	0	0	0	0	:	0	0	0	0	0	0
CARROLL COUNTY-1	35	39	41	41	33	42	:	15	16	17	17	14	18
CARROLL COUNTY-2	35	39	41	41	33	42	:	15	16	17	17	14	18
CATAWBA 1	45	52	39	36	43	38	:	19	22	17	15	18	16
CATAWBA 2	44	36	0	34	33	54	:	19	15	0	14	14	23
CLINTON 1	0	159	112	0	116	130	:	0	29	20	0	21	24
COMANCHE PK 1	49	51	41	36	36	59	:	20	21	17	15	15	24
COMANCHE PK 2	50	51	43	35	37	59	:	20	21	17	14	15	24
COOK 1	0	0	0	0	0	0	:	0	0	0	0	0	0
COOK 2	0	0	0	0	0	0	:	0	0	0	0	0	0
COOPER STN	0	0	0	0	0	0	:	0	0	0	0	0	0
CRYSTAL RVR 3	0	50	45	177	0	0	:	0	23	21	82	0	0
DAVIS-BESSE 1	0	60	56	177	0	0	:	0	28	26	83	0	0
DIABLO CNYN 1	37	53	51	0	29	48	:	17	24	23	0	13	22
DIABLO CNYN 2	43	0	41	29	50	36	:	20	0	19	13	23	17
DRESDEN 1	0	0	0	0	0	0	:	0	0	0	0	0	0
DRESDEN 2	0	0	0	0	0	0	:	0	0	0	0	0	0
DRESDEN 3	0	0	0	0	0	0	:	0	0	0	0	0	0
DUANE ARNOLD	368	0	0	0	0	0	:	67	0	0	0	0	0
ENRICO FERMI2	0	233	150	0	155	0	:	0	42	27	0	28	0
FARLEY 1	0	0	0	0	0	0	:	0	0	0	0	0	0
FARLEY 2	0	54	157	0	0	0	:	0	25	72	0	0	0
FITZPATRICK	560	0	0	0	0	0	:	101	0	0	0	0	0
FORT CALHOUN	0	0	0	0	0	0	:	0	0	0	0	0	0
GINNA	0	0	0	0	0	0	:	0	0	0	0	0	0
GRAND GULF 1	131	238	0	163	151	173	:	23	42	0	29	27	30
GRAND GULF 2	139	163	165	165	136	171	:	26	30	30	30	25	31
HADDAM NECK	0	0	0	0	0	0	:	0	0	0	0	0	0
HARRIS 1	0	41	0	31	36	0	:	0	19	0	14	17	0
HATCH 1	0	0	0	0	0	0	:	0	0	0	0	0	0

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies						:	MTIHM					
	2015	2016	2017	2018	2019	2020		2015	2016	2017	2018	2019	2020
HATCH 2	0	0	0	0	0	0	:	0	0	0	0	0	0
HOPE CRK 1	203	168	0	154	189	0	:	37	31	0	28	34	0
HUMBOLDT BAY	0	0	0	0	0	0	:	0	0	0	0	0	0
INDIAN PT 1	0	0	0	0	0	0	:	0	0	0	0	0	0
INDIAN PT 2	0	0	0	0	0	0	:	0	0	0	0	0	0
INDIAN PT 3	0	62	193	0	0	0	:	0	28	88	0	0	0
KEWAUNEE	0	0	0	0	0	0	:	0	0	0	0	0	0
LACROSSE	0	0	0	0	0	0	:	0	0	0	0	0	0
LASALLE CTY 1	117	0	184	144	0	190	:	21	0	34	26	0	35
LASALLE CTY 2	117	195	0	139	124	0	:	21	36	0	25	23	0
LIMERICK 2	213	0	207	219	0	199	:	39	0	38	40	0	36
LIMERICK 1	168	135	0	125	154	0	:	31	25	0	23	28	0
MAINE YANKEE	0	0	0	0	0	0	:	0	0	0	0	0	0
MCGUIRE 1	32	54	52	32	44	0	:	14	23	22	14	19	0
MCGUIRE 2	33	0	50	37	35	40	:	14	0	21	16	15	17
WILLSTONE 1	0	0	0	0	0	0	:	0	0	0	0	0	0
WILLSTONE 2	217	0	0	0	0	0	:	88	0	0	0	0	0
WILLSTONE 3	43	40	38	0	34	57	:	20	18	18	0	16	26
MONTICELLO	0	0	0	0	0	0	:	0	0	0	0	0	0
NINE MILE PT1	0	0	0	0	0	0	:	0	0	0	0	0	0
NINE MILE PT2	0	214	0	150	188	0	:	0	38	0	27	34	0
NORTH ANNA 1	0	63	157	0	0	0	:	0	29	72	0	0	0
NORTH ANNA 2	55	0	157	0	0	0	:	25	0	72	0	0	0
OCONEE 1	0	0	0	0	0	0	:	0	0	0	0	0	0
OCONEE 2	0	0	0	0	0	0	:	0	0	0	0	0	0
OCONEE 3	0	0	0	0	0	0	:	0	0	0	0	0	0
OYSTER CRK 1	0	0	0	0	0	0	:	0	0	0	0	0	0
PALISADES	0	0	0	0	0	0	:	0	0	0	0	0	0
PALO VERDE 1	49	51	41	36	36	58	:	21	22	18	16	16	25
PALO VERDE 2	47	50	40	38	36	58	:	21	22	17	17	16	25
PALO VERDE 3	44	40	34	42	46	39	:	19	17	15	18	20	17
PEACHBOTTOM 2	0	0	0	0	0	0	:	0	0	0	0	0	0
PEACHBOTTOM 3	0	0	0	0	0	0	:	0	0	0	0	0	0
PERRY 1	0	196	155	0	133	217	:	0	36	28	0	24	39
PERRY 2	0	223	226	0	186	235	:	0	41	41	0	34	43
PILGRIM 1	0	0	0	0	0	0	:	0	0	0	0	0	0
POINT BEACH 1	0	0	0	0	0	0	:	0	0	0	0	0	0
POINT BEACH 2	0	0	0	0	0	0	:	0	0	0	0	0	0
PRAIRIE ISL 1	0	0	0	0	0	0	:	0	0	0	0	0	0
PRAIRIE ISL 2	0	0	0	0	0	0	:	0	0	0	0	0	0
QUAD CITIES 1	0	0	0	0	0	0	:	0	0	0	0	0	0
QUAD CITIES 2	0	0	0	0	0	0	:	0	0	0	0	0	0
RANCHO SECO 1	0	0	0	0	0	0	:	0	0	0	0	0	0
ROBINSON 2	0	0	0	0	0	0	:	0	0	0	0	0	0
RVR BEND 1	112	120	95	88	83	143	:	20	22	17	16	15	25
SALEM 1	0	68	64	193	0	0	:	0	31	29	89	0	0
SALEM 2	43	67	0	50	56	0	:	20	31	0	23	26	0
SAN ONOFRE 1	0	0	0	0	0	0	:	0	0	0	0	0	0

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	Assemblies						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
SAN ONOFRE 2	0	61	0	73	0	68	0	26	0	31	0	29
SAN ONOFRE 3	57	59	0	58	0	73	24	25	0	25	0	31
SEABROOK 1	48	52	41	30	34	56	20	22	17	13	14	24
SEABROOK-2	41	48	49	49	40	51	17	20	21	21	17	22
SEQUOYAH 1	0	69	45	0	46	0	0	32	21	0	21	0
SEQUOYAH 2	42	69	0	51	44	0	19	32	0	23	20	0
SHOREHAM	0	138	138	0	115	145	0	25	25	0	21	26
SOUTH TEXAS 1	34	30	27	32	34	29	18	16	15	17	18	16
SOUTH TEXAS 2	31	36	38	37	31	39	17	19	20	20	17	21
ST LUCIE 1	217	0	0	0	0	0	83	0	0	0	0	0
ST LUCIE 2	0	71	66	0	48	56	0	27	25	0	18	21
SUMMER 1	25	0	61	39	38	43	11	0	28	18	17	20
SURRY 1	0	0	0	0	0	0	0	0	0	0	0	0
SURRY 2	0	0	0	0	0	0	0	0	0	0	0	0
SUSQUEHANNA 1	0	212	194	0	135	169	0	37	34	0	24	30
SUSQUEHANNA 2	124	209	0	150	137	0	22	37	0	26	24	0
3 MILE ISL 1	0	0	0	0	0	0	0	0	0	0	0	0
TROJAN	21	193	0	0	0	0	10	39	0	0	0	0
TURKEY PT 3	0	0	0	0	0	0	0	0	0	0	0	0
TURKEY PT 4	0	0	0	0	0	0	0	0	0	0	0	0
VOGTLE 1	46	40	32	42	45	39	21	18	15	19	21	18
VOGTLE 2	43	40	32	42	46	40	20	18	15	19	21	18
VT YANKEE 1	0	0	0	0	0	0	0	0	0	0	0	0
WASH NUCLEAR2	85	141	133	100	92	110	15	25	23	18	16	19
WNP-1	41	48	49	49	40	51	19	22	22	22	18	23
WNP-3	43	50	51	51	42	53	19	22	22	22	18	23
WATERFORD 3	43	44	40	41	0	53	18	19	17	18	0	23
WATTS BAR 1	0	63	0	47	44	0	0	29	0	22	20	0
WATTS BAR 2	61	49	0	52	0	69	28	22	0	24	0	32
WOLF CRK 1	36	37	31	27	26	43	17	17	14	12	12	20
YANKEE-ROWE 1	0	0	0	0	0	0	0	0	0	0	0	0
ZION 1	0	0	0	0	0	0	0	0	0	0	0	0
ZION 2	0	0	0	0	0	0	0	0	0	0	0	0
GENERIC PWR	2763	3475	3548	3930	3571	4272	1200	1506	1531	1695	1536	1835
GENERIC BWR	3797	5268	6048	5726	5138	7262	692	931	1102	1044	936	1323
TOTAL GENERIC	6560	8743	9596	9656	8709	11534	1893	2437	2633	2739	2472	3158

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

		SUBTOTALS BY REACTOR TYPE AND TOTALS										
		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
		----	----	----	----	----	----	----	----	----	----	----
PWR	ASSEMBLY	16087	1673	2028	2071	3043	2435	2705	3096	2437	3714	2144
PWR	MT.	6787	713	890	898	1299	1063	1169	1321	1062	1624	917
BWR	ASSEMBLY	25461	1662	3604	2553	4101	3855	2583	4714	2879	4758	3050
BWR	MT.	4635	300	654	463	744	700	466	853	519	855	550
TOTAL ASSEMBLY		41548	3335	5632	4624	7144	6290	5288	7810	5316	8472	5194
TOTAL MT.		11423	1013	1544	1360	2043	1764	1635	2174	1581	2478	1467
		SUBTOTALS BY REACTOR TYPE AND TOTALS										
		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
		----	----	----	----	----	----	----	----	----	----	
PWR	ASSEMBLY	4054	2262	3884	2928	2633	3721	2359	4056	2471	3938	
PWR	MT.	1771	983	1888	1263	1148	1605	1034	1769	1070	1739	
BWR	ASSEMBLY	5061	3238	4292	4116	3020	4894	3281	5236	3314	5299	
BWR	MT.	916	583	778	742	544	882	592	939	599	956	
TOTAL ASSEMBLY		9115	5498	8156	7044	5653	8615	5640	9292	5785	9237	
TOTAL MT.		2687	1566	2442	2006	1692	2487	1626	2708	1669	2695	
		SUBTOTALS BY REACTOR TYPE AND TOTALS										
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
		----	----	----	----	----	----	----	----	----	----	
PWR	ASSEMBLY	3355	3021	4366	3505	5008	4635	4837	6180	6106	5919	
PWR	MT.	1473	1320	1902	1518	2200	2045	2143	2726	2685	2522	
BWR	ASSEMBLY	5088	4159	7771	4893	7201	5494	7516	8583	8500	8883	
BWR	MT.	918	754	1401	888	1301	1001	1369	1562	1548	1619	
TOTAL ASSEMBLY		8443	7180	12137	8398	12209	10129	12353	14763	14686	14802	
TOTAL MT.		2391	2074	3303	2407	3501	3046	3512	4289	4233	4141	

TABLE A.3. Middle Case (with Extended Burnup) 1984 Inventory and Projected Annual Reactor Discharges (contd)

		SUBTOTALS BY REACTOR TYPE AND TOTALS					
		2015	2016	2017	2018	2019	2020
		----	----	----	----	----	----
PWR	ASSEMBLY	5016	5912	5760	5994	5035	5986
PWR	MT.	2181	2590	2518	2623	2185	2584
BWR	ASSEMBLY	8163	8012	8041	8087	7232	9144
BWR	MT.	1490	1456	1463	1421	1314	1662
TOTAL ASSEMBLY		13179	13924	13801	14081	12267	15130
TOTAL MT.		3671	4046	3982	4043	3500	4246

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories

REACTOR	Assemblies												WTIHM											
	Inv.	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Inv.	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ARK NUCLEAR 1	384	384	435	435	492	492	538	602	602	668	668	668	178	178	202	202	228	228	249	279	279	310	310	310
ARK NUCLEAR 2	160	212	268	268	329	329	379	447	447	516	516	516	66	88	112	112	138	138	159	187	187	216	216	216
B VALLEY 1	218	218	275	322	322	373	426	426	464	535	535	535	100	100	126	148	148	171	196	196	213	246	246	246
B VALLEY 2	0	0	0	0	0	39	39	112	112	171	171	171	0	0	0	0	0	18	18	52	52	79	79	79
BELLEFONTE 1	0	0	0	0	0	44	44	44	103	103	103	103	0	0	0	0	0	20	20	20	45	45	45	45
BELLEFONTE 2	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	20	20
BIG ROCK 1	172	189	205	222	222	239	256	276	291	312	328	328	22	25	27	29	29	31	33	36	38	41	43	43
BRAIDWOOD 1	0	0	0	0	70	123	157	205	241	295	325	325	0	0	0	0	30	52	66	87	102	125	137	137
BRAIDWOOD 2	0	0	0	0	0	42	84	135	169	223	252	252	0	0	0	0	0	18	36	57	71	94	107	107
BROWNS FERRY1	1068	1256	1256	1453	1453	1635	1635	1635	1783	1783	1953	1953	201	235	235	271	271	304	304	304	331	331	362	362
BROWNS FERRY2	1188	1188	1363	1363	1363	1531	1531	1798	1798	2069	2069	2069	222	222	254	254	254	285	285	334	334	383	383	383
BROWNS FERRY3	1004	1004	1203	1203	1440	1440	1612	1612	1762	1762	1935	1935	187	187	223	223	266	266	298	298	325	325	357	357
BRUNSWICK 1	512	512	573	573	708	829	829	996	1088	1088	1198	1198	96	96	107	107	132	155	155	186	203	203	224	224
BRUNSWICK 2	752	752	893	998	998	1119	1247	1247	1341	1512	1512	1512	141	141	167	187	187	209	233	233	251	283	283	283
BYRON 1	0	0	50	83	131	175	216	265	299	353	383	383	0	0	21	35	55	74	91	112	126	149	162	162
BYRON 2	0	0	0	33	81	122	160	210	245	298	327	327	0	0	0	14	34	52	68	89	104	126	138	138
CALLAWAY 1	0	0	49	103	103	160	216	216	265	343	343	343	0	0	23	47	47	73	96	96	117	150	150	150
CALVERT CLF 1	468	535	592	592	663	715	715	785	830	830	877	877	179	205	227	227	255	275	275	303	320	320	339	339
CALVERT CLF 2	391	448	448	499	578	578	633	703	703	773	820	820	149	172	172	191	222	222	243	271	271	298	317	317
CARROLL COUNTY-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CARROLL COUNTY-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATAWBA 1	0	37	37	79	126	171	214	271	307	357	357	357	0	16	16	33	53	72	91	115	130	151	151	151
CATAWBA 2	0	0	0	0	53	101	139	139	175	235	268	268	0	0	0	0	22	43	59	59	74	100	114	114
CLINTON 1	0	0	0	149	272	272	440	571	571	821	910	910	0	0	0	27	50	50	81	105	105	150	166	166
COMANCHE PK 1	0	0	0	43	92	139	186	241	281	340	377	377	0	0	0	20	42	64	86	108	124	148	163	163
COMANCHE PK 2	0	0	0	40	96	143	191	247	285	347	386	386	0	0	0	17	41	60	81	103	119	144	159	159
COOK 1	466	539	599	599	670	670	726	800	800	877	877	877	204	235	262	262	295	295	321	355	355	390	390	390
COOK 2	336	392	392	448	448	509	574	574	627	627	680	680	154	177	177	199	199	224	250	250	272	272	293	293
COOPER STN	914	914	1019	1082	1192	1271	1355	1467	1534	1647	1719	1719	172	172	191	203	223	237	253	273	285	306	319	319
CRYSTAL RVR 3	253	270	307	346	346	386	422	422	454	507	507	507	118	126	143	161	161	179	196	196	211	235	235	235
DAVIS-BESSE 1	197	197	246	293	293	337	385	385	421	489	489	489	93	93	116	138	138	159	181	181	198	230	230	230
DIABLO CNYN 1	0	0	49	92	146	146	191	253	286	349	349	349	0	0	23	42	67	67	88	116	131	160	160	160
DIABLO CNYN 2	0	0	53	96	96	146	189	249	287	337	337	337	0	0	24	44	44	67	87	114	132	155	155	155
DRESDEN 1	683	683	683	683	683	683	683	683	683	683	683	683	69	69	69	69	69	69	69	69	69	69	69	69
DRESDEN 2	1312	1312	1423	1545	1545	1676	1815	1815	1917	2103	2103	2103	247	247	267	289	289	312	337	337	356	389	389	389
DRESDEN 3	1168	1260	1367	1367	1510	1613	1613	1759	1838	1838	1935	1935	222	239	259	259	285	304	304	331	345	345	363	363
DUANE ARNOLD	576	662	662	741	836	836	915	1030	1030	1146	1220	1220	107	123	123	138	155	155	169	190	190	212	225	225
ENRICO FERMI2	0	0	206	362	362	581	581	837	837	1109	1109	1109	0	0	38	67	67	107	107	153	153	203	203	203
FARLEY 1	273	332	387	387	443	494	494	559	600	600	643	643	125	152	178	178	204	227	227	257	276	276	296	296
FARLEY 2	118	173	229	274	274	320	373	373	411	481	481	481	53	79	105	126	126	147	171	171	189	221	221	221
FITZPATRICK	816	970	1092	1092	1254	1371	1371	1530	1629	1629	1733	1733	153	181	204	204	233	255	255	283	301	301	320	320
FORT CALHOUN	305	352	352	385	419	419	458	503	503	545	580	580	112	129	129	141	153	153	167	183	183	198	211	211
GINNA	332	361	383	400	425	445	465	491	509	536	554	554	128	139	147	154	162	169	176	185	192	201	208	208
GRAND GULF 1	0	0	199	199	436	610	610	843	984	1230	1230	1230	0	0	37	37	80	112	112	153	178	222	222	222
GRAND GULF 2	0	0	0	0	0	0	0	0	0	263	405	405	0	0	0	0	0	0	0	0	0	48	75	75
HADDAM NECK	545	580	580	614	660	697	697	746	773	773	805	805	225	239	239	253	272	287	287	307	318	318	331	331
HARRIS 1	0	0	0	0	45	83	83	128	159	159	191	191	0	0	0	0	21	39	39	60	74	74	89	89
HATCH 1	957	1074	1148	1214	1318	1407	1498	1619	1684	1807	1893	1893	175	197	210	222	241	258	274	296	308	331	346	346

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Inv. Assemblies											Inv. MTIHM										
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
HATCH 2	446	489	558	632	748	838	935	1060	1131	1261	1344	82	86	102	116	137	154	172	194	207	231	246
HOPE CRK 1	0	0	0	118	331	516	516	760	922	922	1066	0	0	0	21	60	94	94	138	168	168	194
HUMBOLDT BAY	390	390	390	390	390	390	390	390	390	390	390	28	28	28	28	28	28	28	28	28	28	28
INDIAN PT 1	160	160	160	160	160	160	160	160	160	160	160	31	31	31	31	31	31	31	31	31	31	31
INDIAN PT 2	396	444	444	489	489	526	574	574	612	681	681	179	201	201	221	221	238	260	260	278	309	309
INDIAN PT 3	216	285	285	338	409	409	465	465	513	585	585	99	130	130	154	187	187	212	212	234	267	267
KEWAUNEE	338	365	395	418	452	478	506	542	564	602	625	132	143	155	164	177	187	197	211	220	234	243
LACROSSE	213	218	233	247	268	284	301	324	336	359	374	25	26	27	29	31	33	35	37	38	41	42
LASALLE CTY 1	0	166	166	307	488	488	628	849	849	1062	1201	0	30	30	56	89	89	115	155	155	194	219
LASALLE CTY 2	0	0	180	180	472	665	665	866	994	994	1132	0	0	33	33	86	122	122	158	182	182	207
LIMERICK 2	0	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	20
LIMERICK 1	0	0	280	280	535	639	639	799	928	928	1063	0	0	52	52	99	118	118	148	171	171	196
MAINE YANKEE	721	772	772	819	880	880	929	997	997	1067	1111	273	292	292	309	332	332	351	376	376	402	419
MCQUIRE 1	60	120	165	206	261	301	345	345	380	436	474	28	56	77	94	118	135	153	153	168	192	208
MCQUIRE 2	0	40	90	127	183	226	226	285	318	379	416	0	18	41	58	82	101	101	126	140	165	181
MILLSTONE 1	1336	1336	1503	1630	1630	1754	1754	1936	1936	2131	2243	253	253	283	305	305	327	327	360	360	394	414
MILLSTONE 2	376	442	488	488	545	599	599	658	691	691	737	145	172	191	191	214	235	235	260	273	273	291
MILLSTONE 3	0	0	0	38	100	143	143	202	244	294	333	0	0	0	18	46	66	66	93	113	135	154
MONTECELLO	1136	1231	1299	1364	1460	1530	1604	1701	1755	1755	1818	212	229	241	253	270	282	295	312	322	322	333
NINE MILE PT1	1244	1244	1393	1393	1569	1569	1704	1704	1810	1810	1932	235	235	261	261	292	292	316	316	335	335	356
NINE MILE PT2	0	0	0	0	223	223	393	644	644	908	908	0	0	0	0	40	40	71	120	120	165	165
NORTH ANNA 1	250	250	308	347	347	397	446	446	483	550	550	115	115	142	159	159	183	205	205	222	253	253
NORTH ANNA 2	174	174	229	271	330	330	380	445	445	511	553	80	80	105	125	152	152	175	205	205	235	255
OCONEE 1	494	494	544	544	603	647	647	704	704	768	807	230	230	253	253	280	301	301	327	327	357	375
OCONEE 2	380	429	429	475	533	533	578	578	618	682	682	176	199	199	220	247	247	268	268	286	316	316
OCONEE 3	412	453	453	495	495	543	593	593	629	629	672	191	210	210	229	229	252	275	275	291	291	311
OYSTER CRK 1	980	980	1133	1133	1320	1326	1326	1510	1510	1601	1719	183	183	210	210	243	244	244	276	276	292	313
PALISADES	477	529	529	572	631	631	631	698	731	731	771	193	213	213	230	253	253	279	292	292	307	307
PALO VERDE 1	0	0	82	105	157	207	254	311	351	412	448	0	0	26	43	64	86	106	131	148	175	191
PALO VERDE 2	0	0	0	40	99	152	196	252	291	353	390	0	0	0	17	41	62	81	105	122	149	165
PALO VERDE 3	0	0	0	0	55	118	162	227	268	316	355	0	0	0	0	23	49	66	94	111	133	150
PEACHBOTTOM 2	1522	1522	1715	1715	1909	2076	2076	2302	2434	2434	2580	273	273	308	308	344	374	374	416	440	440	467
PEACHBOTTOM 3	1218	1438	1438	1612	1612	1800	1971	1971	2103	2342	2342	228	267	267	300	300	334	365	365	389	433	433
PERRY 1	0	0	0	149	149	335	498	498	846	879	879	0	0	0	27	27	61	91	91	118	160	160
PERRY 2	0	0	0	0	0	0	0	0	101	327	327	0	0	0	0	0	0	0	0	18	60	60
PILGRIM 1	1123	1123	1278	1396	1396	1529	1529	1708	1708	1888	1888	212	212	239	260	260	284	284	316	316	347	347
POINT BEACH 1	394	423	443	464	490	513	535	565	588	618	639	157	168	176	185	195	203	211	222	229	240	248
POINT BEACH 2	379	400	420	441	468	492	514	545	565	596	617	151	160	168	176	185	194	202	213	220	231	238
PRAIRIE ISL 1	320	320	332	349	372	395	420	463	485	485	509	114	114	118	124	133	141	150	166	174	174	183
PRAIRIE ISL 2	321	321	366	366	397	423	452	491	514	552	552	127	127	143	143	155	163	173	186	194	206	206
QUAD CITIES 1	1240	1382	1382	1522	1683	1683	1805	1968	1968	2137	2245	234	259	259	284	312	312	334	363	363	392	412
QUAD CITIES 2	1100	1237	1358	1358	1510	1624	1624	1776	1871	1871	1974	209	233	255	255	282	302	302	328	345	345	363
RANCHO SECO 1	207	258	298	298	354	402	402	484	499	499	537	96	119	138	138	164	186	186	215	231	231	249
ROBINSON 2	222	222	258	287	335	335	369	417	446	495	495	96	96	111	124	144	144	159	179	192	213	213
RVR BEND 1	0	0	0	0	56	170	272	400	491	633	713	0	0	0	0	10	31	50	73	90	116	131
SALEM 1	271	271	332	378	378	415	474	474	519	592	592	124	124	152	174	174	191	218	218	238	272	272
SALEM 2	133	133	176	176	220	269	269	344	388	388	438	61	61	81	81	101	123	123	158	178	178	201
SAN ONOFRE 1	94	94	122	122	160	160	197	197	224	224	255	35	35	45	45	59	59	73	73	83	83	94

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies												MTIHM											
	Inv.	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Inv.	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
SAN ONOFRE 2	65	65	132	189	189	252	252	337	337	426	426	426	28	28	56	81	81	108	108	144	144	182	182	182
SAN ONOFRE 3	0	46	111	111	181	181	248	248	300	300	357	357	0	20	47	47	77	77	106	106	128	128	152	152
SEABROOK 1	0	0	0	36	100	144	187	243	283	344	378	378	0	0	0	15	42	61	79	103	120	146	160	160
SEABROOK-2	0	0	0	0	0	0	0	0	0	63	105	105	0	0	0	0	0	0	0	0	0	27	44	44
SEQUOYAH 1	140	182	182	224	287	287	340	340	384	461	461	461	64	84	84	103	132	132	156	156	177	212	212	212
SEQUOYAH 2	136	136	184	227	227	278	333	333	377	377	426	426	62	62	84	104	104	128	153	153	173	173	196	196
SHOREHAM	0	0	0	142	142	286	452	452	528	662	662	662	0	0	0	26	26	52	83	83	97	121	121	121
SOUTH TEXAS 1	0	0	0	0	51	100	128	175	203	242	272	272	0	0	0	0	27	54	69	94	109	130	146	146
SOUTH TEXAS 2	0	0	0	0	0	0	0	35	63	110	140	140	0	0	0	0	0	0	0	0	19	34	59	75
ST LUCIE 1	372	445	445	492	572	572	627	716	716	793	855	855	142	170	170	187	211	211	232	258	258	287	306	306
ST LUCIE 2	80	80	154	208	208	270	327	327	377	455	455	455	31	31	58	78	78	102	124	124	143	172	172	172
SUMMER 1	44	141	141	193	248	298	345	345	385	447	492	492	20	65	65	89	114	137	159	159	177	205	226	226
SURRY 1	477	477	529	587	587	609	653	653	687	744	744	744	217	217	240	258	258	277	297	297	313	339	339	339
SURRY 2	349	397	442	442	496	539	539	598	629	629	666	666	158	180	201	201	226	245	245	272	287	287	304	304
SUSQUEHANNA 1	0	156	328	484	484	650	817	817	948	1195	1195	1195	0	29	60	89	89	118	148	148	171	214	214	214
SUSQUEHANNA 2	0	0	194	194	417	584	584	800	928	928	1071	1071	0	0	36	36	76	107	107	145	167	167	193	193
3 MILE ISL 1	208	208	208	261	321	321	371	436	436	507	552	552	97	97	97	121	149	149	172	202	202	235	256	256
TROJAN	283	309	348	381	422	454	482	519	542	580	605	605	130	142	159	175	194	209	221	239	249	267	278	278
TURKEY PT 3	387	415	451	451	495	534	534	582	612	612	644	644	175	188	205	205	225	243	243	265	279	279	293	293
TURKEY PT 4	379	379	379	427	427	461	497	497	527	577	577	577	172	172	172	194	194	210	226	226	240	263	263	263
VOGTLE 1	0	0	0	0	46	46	109	170	208	261	302	302	0	0	0	0	21	21	50	78	96	120	139	139
VOGTLE 2	0	0	0	0	0	0	36	103	141	193	234	234	0	0	0	0	0	0	17	48	65	89	108	108
VT YANKEE 1	1202	1268	1268	1339	1408	1469	1533	1618	1668	1753	1810	1810	224	236	236	249	262	273	285	300	309	325	335	335
WASH NUCLEAR2	0	0	152	280	402	506	623	773	858	1011	1108	1108	0	0	28	47	73	92	113	140	155	182	199	199
WNP-1	0	0	0	0	0	0	0	0	55	204	244	244	0	0	0	0	0	0	0	0	25	93	111	111
WNP-3	0	0	0	0	0	0	0	78	121	182	225	225	0	0	0	0	0	0	0	0	33	50	75	94
WATERFORD 3	0	0	59	59	138	185	229	296	296	366	405	405	0	0	25	25	56	76	95	123	123	153	170	170
WATTS BAR 1	0	27	96	96	148	148	200	200	244	244	287	287	0	12	43	43	66	66	90	90	110	110	130	130
WATTS BAR 2	0	0	0	35	105	105	149	171	206	206	244	244	0	0	0	16	47	47	67	77	93	93	111	111
WOLF CRK 1	0	0	0	30	87	102	133	176	206	251	276	276	0	0	0	14	31	47	61	81	95	116	127	127
YANKEE-ROWE 1	300	327	327	352	385	385	412	448	468	488	490	490	74	80	80	86	93	93	100	108	113	113	118	118
ZION 1	433	460	495	527	569	602	635	680	708	751	780	780	197	210	226	240	260	275	290	310	322	343	356	356
ZION 2	422	462	501	532	574	607	641	686	712	758	787	787	192	210	228	242	261	276	292	312	324	345	358	358
BRUNSWICK-1 PWR POOL	160	160	160	160	160	160	160	160	160	160	160	160	69	69	69	69	69	69	69	69	69	69	69	69
BRUNSWICK-2 PWR POOL	144	144	144	144	144	144	144	144	144	144	144	144	65	65	65	65	65	65	65	65	65	65	65	65
MORRIS-BWR	879	879	879	879	879	879	879	879	879	879	879	879	169	169	169	169	169	169	169	169	169	169	169	169
MORRIS-PWR	350	350	350	350	350	350	350	350	350	350	350	350	132	132	132	132	132	132	132	132	132	132	132	132
WEST VALLEY-B	310	310	310	310	310	310	310	310	310	310	310	310	54	54	54	54	54	54	54	54	54	54	54	54
WEST VALLEY-P	121	121	121	121	121	121	121	121	121	121	121	121	46	46	46	46	46	46	46	46	46	46	46	46

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies										MTIHW									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
ARK NUCLEAR 1	723	723	790	831	831	894	894	965	965	1019	335	335	366	385	385	414	414	447	447	472
ARK NUCLEAR 2	576	576	650	702	702	770	770	845	845	901	241	241	272	293	293	322	322	353	353	376
B VALLEY 1	595	637	637	682	735	735	772	850	850	909	274	293	293	314	338	338	355	391	391	418
B VALLEY 2	248	248	307	358	358	421	459	459	499	566	114	114	142	165	165	194	212	212	230	261
BELLEFONTE 1	181	219	219	292	345	345	396	486	486	558	81	98	98	131	156	156	179	220	220	253
BELLEFONTE 2	124	170	170	222	222	291	342	342	393	478	54	75	75	98	98	130	153	153	176	215
BIG ROCK 1	328	342	363	377	394	412	427	511	511	511	43	44	47	49	51	53	55	66	66	66
BRAIDWOOD 1	380	414	462	507	543	592	622	676	706	750	161	175	195	214	230	250	263	286	298	317
BRAIDWOOD 2	306	338	386	430	465	513	543	597	627	670	129	143	163	182	197	217	230	252	265	283
BROWNS FERRY1	1953	2109	2109	2276	2276	2537	2537	2826	2826	3049	362	390	390	421	421	468	468	520	520	561
BROWNS FERRY2	2299	2299	2589	2589	2788	2788	2950	2950	3108	3108	425	425	478	478	514	514	543	543	572	572
BROWNS FERRY3	1935	2093	2093	2260	2260	2421	2421	2582	2582		357	385	385	416	416	416	445	445	474	474
BRUNSWICK 1	1346	1346	1530	1637	1637	1803	1896	1896	1994	2135	251	251	286	306	306	337	354	354	373	399
BRUNSWICK 2	1660	1761	1761	1867	1994	1994	2087	2270	2270	2411	310	329	329	349	373	373	390	424	424	451
BYRON 1	437	470	519	564	599	648	677	731	761	805	185	199	219	238	253	274	286	309	322	340
BYRON 2	381	413	460	504	539	587	617	671	701	745	161	175	194	213	228	248	261	284	296	315
CALLAWAY 1	412	462	462	514	571	571	622	706	706	773	179	200	200	222	247	247	268	304	304	332
CALVERT CLF 1	935	935	1012	1060	1060	1128	1178	1178	1228	1287	362	362	392	411	411	437	457	457	477	500
CALVERT CLF 2	820	868	939	939	992	1058	1058	1134	1182	1182	317	336	364	364	384	410	410	440	459	459
CARROLL COUNTY-1	0	0	0	0	0	0	0	81	112	158	0	0	0	0	0	0	0	34	47	67
CARROLL COUNTY-2	0	0	0	0	0	0	0	54	85	131	0	0	0	0	0	0	0	23	36	55
CATAWBA 1	418	453	503	553	590	640	677	731	731	781	177	192	213	234	250	271	287	310	310	331
CATAWBA 2	328	363	435	476	511	511	548	604	640	684	139	154	184	202	216	216	232	256	271	290
CLINTON 1	910	1069	1190	1190	1345	1345	1459	1653	1653	1808	166	196	218	218	246	246	267	302	302	331
COMANCHE PK 1	439	479	532	583	623	678	719	780	819	869	188	204	225	246	262	284	301	325	341	361
COMANCHE PK 2	449	489	542	593	634	688	729	789	828	877	185	201	222	243	259	281	298	322	337	357
COOK 1	943	990	990	1044	1098	1098	1146	1146	1194	1259	420	442	442	467	492	492	514	514	536	566
COOK 2	753	753	842	898	898	1070	1070	1161	1217	1217	323	323	358	381	381	451	451	487	510	510
COOPER STN	1814	1882	2000	2069	2149	2254	2322	2441	2509	2596	336	349	370	383	397	416	429	450	463	479
CRYSTAL RVR 3	553	587	587	621	660	660	695	753	753	797	257	273	273	288	306	306	323	350	350	370
DAVIS-BESSE 1	544	583	583	623	671	671	700	779	779	832	255	274	274	292	315	315	332	365	365	390
DIABLO CNYN 1	399	438	502	502	546	610	643	643	676	731	183	201	231	231	251	280	295	295	310	336
DIABLO CNYN 2	402	435	504	504	542	601	635	635	667	721	185	200	231	231	249	276	291	291	306	331
DRESDEN 1	683	683	683	683	683	683	683	683	683	683	69	69	69	69	69	69	69	69	69	69
DRESDEN 2	2261	2370	2370	2485	2621	2621	2725	2924	2924	3077	418	437	437	458	482	482	501	537	537	564
DRESDEN 3	2066	2066	2229	2324	2324	2471	2557	2557	2643	2768	387	387	417	435	435	462	478	478	494	517
DUANE ARNOLD	1220	1288	1409	1409	1493	1603	1603	1726	1791	1791	225	237	260	260	275	295	295	317	329	329
ENRICO FERMI2	1385	1540	1540	1765	1765	2014	2014	2285	2443	2443	253	281	281	322	322	368	368	417	446	446
FARLEY 1	704	704	776	822	822	885	928	928	967	1025	324	324	357	378	378	407	427	427	445	472
FARLEY 2	538	583	583	627	680	680	719	796	796	850	248	268	268	289	313	313	331	367	367	392
FITZPATRICK	1876	1876	2051	2158	2158	2318	2428	2428	2532	2669	346	346	377	396	396	425	445	445	464	488
FORT CALHOUN	580	608	649	649	688	733	733	774	799	799	211	221	235	235	249	265	265	280	289	289
GINNA	577	596	626	645	665	691	710	740	759	782	216	222	233	239	246	255	262	273	279	287
GRAND GULF 1	1448	1598	1598	1747	1936	1936	2085	2359	2502	2502	260	286	286	313	346	346	372	421	446	446
GRAND GULF 2	605	734	954	1112	1255	1469	1593	1812	1939	2125	111	135	176	205	231	270	293	333	357	391
HADDAM NECK	847	878	878	908	945	992	992	1047	1075	1075	349	361	361	374	389	408	408	431	442	442
HARRIS 1	244	244	288	288	321	373	373	422	455	455	113	113	134	134	149	173	173	196	212	212
HATCH 1	1997	2069	2200	2282	2369	2487	2551	2691	2758	2859	365	378	402	417	433	455	466	492	504	522

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
HATCH 2	1456	1532	1672	1753	1849	1974	2042	2184	2257	2365	267	280	306	321	338	361	373	399	413	432
HOPE CRK 1	1337	1337	1565	1751	1751	1982	2133	2133	2282	2529	243	243	285	319	319	361	388	388	415	460
HUMBOLDT BAY	390	390	390	390	390	390	390	390	390	390	28	28	28	28	28	28	28	28	28	28
INDIAN PT 1	160	160	160	160	160	160	160	160	160	160	31	31	31	31	31	31	31	31	31	31
INDIAN PT 2	739	780	780	822	873	873	914	988	988	1045	336	355	355	374	397	397	416	450	450	476
INDIAN PT 3	649	649	728	783	783	851	851	940	983	983	296	296	332	357	357	388	388	429	449	449
Kewaunee	657	679	720	744	771	804	827	868	891	921	255	264	280	289	299	312	321	336	345	357
LACROSSE	394	407	432	446	463	486	497	521	534	606	45	46	49	50	52	55	56	58	60	68
LASALLE CTY 1	1201	1327	1557	1557	1713	1920	1920	2150	2279	2279	219	242	284	284	312	350	350	392	416	416
LASALLE CTY 2	1322	1322	1552	1685	1685	1893	2025	2025	2154	2330	241	241	283	308	308	346	370	370	393	425
LIMERICK 2	112	365	520	520	792	1036	1036	1191	1384	1384	20	66	95	95	144	189	189	217	252	252
LIMERICK 1	1282	1282	1468	1620	1620	1808	1951	1951	2088	2290	236	236	270	297	297	332	358	358	383	420
MAINE YANKEE	1111	1153	1227	1227	1278	1344	1344	1418	1461	1461	419	435	462	462	482	506	506	534	550	550
MCQUIRE 1	528	581	623	682	704	704	740	805	841	887	230	245	271	288	305	305	321	348	363	383
MCQUIRE 2	470	504	589	589	613	670	707	769	805	852	204	218	246	246	265	289	304	331	346	366
MILLSTONE 1	2243	2353	2353	2474	2474	2642	2642	2850	2957	2957	414	434	434	455	455	485	485	522	541	541
MILLSTONE 2	788	788	855	904	904	982	997	997	1035	1098	312	312	339	359	359	383	397	397	412	437
MILLSTONE 3	333	372	423	475	512	577	614	614	653	696	154	172	195	219	236	266	283	283	301	321
MONTICELLO	1903	1961	2053	2053	2148	2231	2290	2397	2458	2538	348	358	374	374	391	406	416	435	446	460
NINE MILE PT1	1932	2046	2040	2183	2183	2347	2347	2554	2554	2712	358	378	376	397	397	429	429	466	466	494
NINE MILE PT2	1157	1157	1381	1585	1585	1792	1792	2042	2042	2247	211	211	251	284	284	325	325	370	370	407
NORTH ANNA 1	607	645	645	687	736	736	775	847	847	901	279	297	297	316	339	339	357	390	390	415
NORTH ANNA 2	553	592	663	663	711	773	773	846	884	884	255	273	308	308	328	356	356	390	408	408
OCONEE 1	807	845	913	913	958	958	996	1061	1061	1113	375	393	424	424	445	445	463	493	493	517
OCONEE 2	739	778	778	818	818	884	884	951	989	989	343	361	361	379	379	410	410	441	459	459
OCONEE 3	728	728	800	800	847	847	885	957	957	1011	337	337	371	371	392	392	410	443	443	469
OYSTER CRK 1	1719	1780	1780	1857	1857	2013	2119	2119	2217	2217	313	320	320	338	338	365	384	384	401	401
PALISADES	835	869	869	910	955	955	989	1055	1055	1108	332	345	345	361	379	379	392	418	418	438
PALO VERDE 1	510	549	604	656	697	753	792	854	892	942	218	235	259	281	299	324	341	368	384	406
PALO VERDE 2	452	491	546	598	639	695	734	795	833	883	192	209	233	256	274	298	315	342	358	380
PALO VERDE 3	418	455	525	569	609	675	714	773	811	870	177	193	224	243	261	289	306	332	349	375
PEACHBOTTOM 2	2780	2780	3027	3171	3171	3391	3534	3534	3879	3867	504	504	550	577	577	617	644	644	671	705
PEACHBOTTOM 3	2548	2691	2691	2839	3014	3014	3158	3414	3414	3604	470	496	496	523	555	555	581	628	628	663
PERRY 1	1114	1257	1257	1448	1602	1602	1738	1970	1970	2157	203	229	229	264	292	292	317	359	359	393
PERRY 2	632	805	805	1022	1217	1217	1376	1674	1674	1925	115	147	147	186	222	222	251	305	305	351
PILGRIM 1	2045	2151	2151	2266	2266	2448	2448	2641	2641	2795	375	394	394	414	414	446	446	481	481	508
POINT BEACH 1	666	687	721	743	765	793	815	850	872	898	257	265	277	285	292	302	310	323	330	340
POINT BEACH 2	644	666	699	721	744	774	796	830	852	878	248	256	267	275	283	294	302	314	321	331
PRAIRIE ISL 1	541	566	607	632	632	669	694	735	760	791	195	204	219	228	228	241	251	266	275	286
PRAIRIE ISL 2	585	610	651	676	704	742	742	783	808	839	217	226	239	248	257	270	270	283	292	302
QUAD CITIES 1	2245	2345	2527	2527	2650	2813	2813	2993	3094	3094	412	429	461	461	483	512	512	543	561	561
QUAD CITIES 2	2109	2109	2282	2384	2384	2540	2644	2644	2746	2878	387	387	418	436	436	463	481	481	499	523
RANCHO SECO 1	587	587	648	685	685	740	777	777	814	862	272	272	300	317	317	342	359	359	377	399
ROBINSON 2	537	567	621	652	652	700	731	784	814	814	231	244	267	280	280	301	314	337	350	350
RVR BEND 1	857	946	1074	1193	1286	1417	1501	1644	1728	1840	157	173	196	218	235	259	274	300	315	336
SALEM 1	653	700	700	747	800	800	847	925	925	985	300	321	321	343	367	367	389	425	425	452
SALEM 2	501	501	578	625	625	696	743	743	790	849	230	230	265	287	287	320	341	341	363	390
SAN ONOFRE 1	255	284	284	317	363	520	520	520	520	520	94	105	105	117	134	193	193	193	193	193

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
SAN ONOFRE 2	500	500	590	590	653	653	711	711	770	840	213	213	252	252	279	279	304	304	329	359
SAN ONOFRE 3	357	414	507	507	573	573	631	631	690	690	152	177	216	216	245	245	269	269	295	295
SEABROOK 1	440	477	531	582	622	677	710	770	804	853	186	202	225	246	263	287	301	326	340	361
SEABROOK-2	167	204	271	318	360	424	460	525	562	618	71	86	115	135	152	180	195	222	238	262
SEQUOYAH 1	525	572	572	621	621	694	742	742	791	853	241	263	263	285	285	319	341	341	363	392
SEQUOYAH 2	491	491	573	573	630	704	704	785	833	833	226	226	263	263	289	323	323	361	383	383
SHOREHAM	761	846	846	846	930	930	1014	1022	1022	1154	139	154	154	154	170	170	185	187	187	211
SOUTH TEXAS 1	320	346	400	434	461	510	536	581	607	650	172	186	215	234	248	275	289	313	327	350
SOUTH TEXAS 2	188	216	264	301	332	380	409	457	485	527	101	116	142	162	179	205	220	246	261	284
ST LUCIE 1	924	924	1020	1072	1072	1153	1205	1205	1269	1332	332	332	361	380	380	406	425	425	445	469
ST LUCIE 2	521	573	573	628	684	684	736	820	820	883	197	217	217	237	259	259	279	311	311	335
SUMMER 1	544	544	619	657	708	766	766	842	876	932	250	250	285	302	325	352	352	387	403	428
SURRY 1	795	830	830	887	908	908	944	1007	1007	1055	362	378	378	395	414	414	431	460	460	482
SURRY 2	717	717	781	816	816	873	908	908	944	990	327	327	356	372	372	399	415	415	431	452
SUSQUEHANNA 1	1374	1504	1504	1645	1812	1812	1950	2195	2195	2383	245	268	268	293	322	322	346	389	389	422
SUSQUEHANNA 2	1268	1268	1512	1654	1654	1876	2013	2013	2147	2337	228	228	271	296	296	335	359	359	383	416
3 MILE ISL 1	552	594	670	670	722	790	790	866	907	907	258	276	311	311	335	366	366	402	421	421
TROJAN	637	661	703	727	755	791	816	858	882	914	293	304	323	335	347	364	376	395	406	421
TURKEY PT 3	687	687	740	773	773	819	852	852	885	926	313	313	337	352	352	374	389	389	404	423
TURKEY PT 4	621	653	653	686	723	723	756	809	809	850	283	298	298	313	330	330	345	369	369	388
VOGTLE 1	367	401	473	519	556	623	658	718	752	811	169	185	218	239	257	287	304	331	347	374
VOGTLE 2	297	331	403	448	484	549	584	643	677	735	137	153	186	207	223	253	269	297	312	339
VT YANKEE 1	1885	1936	2031	2084	2148	2231	2281	2375	2425	2496	349	358	376	385	397	412	421	438	448	461
WASH NUCLEAR2	1240	1330	1497	1593	1705	1852	1945	2110	2201	2329	222	238	267	284	304	330	346	375	391	414
WNP-1	307	345	412	459	501	565	601	666	703	758	140	157	188	209	229	250	274	304	321	346
WNP-3	294	335	408	459	506	576	611	681	721	780	123	141	173	195	215	245	260	290	308	333
WATERFORD 3	475	509	509	570	606	678	713	713	762	820	200	214	214	240	256	286	301	301	322	347
WATTS BAR 1	362	362	430	484	484	552	552	629	676	676	165	165	196	221	221	252	252	287	309	309
WATTS BAR 2	244	290	377	377	426	507	507	580	580	641	111	132	172	172	194	231	231	265	265	293
WOLF CRK 1	322	351	392	430	461	501	527	572	598	634	149	162	181	198	213	231	243	264	276	293
YANKEE-ROWE 1	524	524	567	643	643	643	643	643	643	643	126	126	136	154	154	154	154	154	154	154
ZION 1	820	847	896	925	958	1004	1032	1083	1110	1148	374	387	409	422	437	458	471	495	507	524
ZION 2	827	854	904	933	967	1011	1039	1090	1117	1155	377	389	412	425	441	461	474	497	509	527
BRUNSWICK-1 PWR POOL	160	160	160	160	160	160	160	160	160	160	69	69	69	69	69	69	69	69	69	69
BRUNSWICK-2 PWR POOL	144	144	144	144	144	144	144	144	144	144	65	65	65	65	65	65	65	65	65	65
MORRIS-BWR	879	879	879	879	879	879	879	879	879	879	169	169	169	169	169	169	169	169	169	169
MORRIS-PWR	350	350	350	350	350	350	350	350	350	350	132	132	132	132	132	132	132	132	132	132
WEST VALLEY-B	310	310	310	310	310	310	310	310	310	310	54	54	54	54	54	54	54	54	54	54
WEST VALLEY-P	121	121	121	121	121	121	121	121	121	121	46	46	46	46	46	46	46	46	46	46
GENERIC PWR	0	0	0	0	0	0	0	0	124	566	0	0	0	0	0	0	0	0	57	261
GENERIC BWR	0	0	0	0	0	0	0	0	285	960	0	0	0	0	0	0	0	0	52	176

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies										WTIHW									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
ARK NUCLEAR 1	1064	1064	1105	1105	1162	1339	1339	1339	1339	1339	493	493	512	512	538	621	621	621	621	621
ARK NUCLEAR 2	950	950	999	999	1059	1059	1135	1194	1371	1371	397	397	417	417	442	442	474	498	572	572
B VALLEY 1	957	957	1000	1036	1036	1072	1147	1147	1200	1252	441	441	460	477	477	494	528	528	553	577
B VALLEY 2	566	608	663	663	719	754	754	820	858	858	261	280	306	306	331	348	348	378	396	396
BELLEFONTE 1	616	616	685	736	736	781	781	869	918	918	279	279	311	334	334	354	354	395	417	417
BELLEFONTE 2	478	545	614	614	708	754	754	853	902	902	215	246	277	277	320	341	341	386	408	408
BIG ROCK 1	511	511	511	511	511	511	511	511	511	511	66	66	66	66	66	66	66	66	66	66
BRAIDWOOD 1	795	827	867	897	940	972	1009	1059	1107	1137	336	350	367	379	397	411	427	448	468	481
BRAIDWOOD 2	714	745	785	815	858	890	926	977	1025	1055	302	315	332	345	363	376	392	413	433	446
BROWNS FERRY1	3049	3255	3255	3413	3413	4177	4177	4177	4177	4177	561	598	598	627	627	766	766	766	766	766
BROWNS FERRY2	3292	3292	3457	3457	3693	3693	3693	3928	3928	4144	605	605	635	635	678	678	721	721	760	
BROWNS FERRY3	2767	2767	2931	2931	3169	3169	3457	3457	3664	3664	508	508	538	538	581	581	633	633	671	671
BRUNSWICK 1	2135	2267	2372	2372	2524	2613	2613	2758	2893	3025	399	424	443	443	472	488	488	516	541	565
BRUNSWICK 2	2528	2528	2632	2723	2723	2812	2989	2989	3118	3245	473	473	492	509	509	528	559	559	583	607
BYRON 1	849	881	921	949	991	1023	1059	1109	1156	1182	359	372	389	401	419	432	448	469	489	500
BYRON 2	789	821	861	891	934	966	1001	1052	1099	1129	334	347	364	377	395	408	423	445	465	477
CALLAWAY 1	829	829	884	933	933	981	1062	1062	1124	1184	356	356	379	400	400	420	454	454	481	506
CALVERT CLF 1	1287	1340	1388	1388	1449	1497	1497	1548	1602	1619	500	521	539	539	563	582	582	602	624	709
CALVERT CLF 2	1230	1284	1284	1332	1392	1392	1468	1519	1519	1738	478	499	499	518	542	542	571	591	591	615
CARROLL COUNTY-1	197	233	271	300	342	371	415	471	517	558	83	98	115	127	145	157	175	199	218	236
CARROLL COUNTY-2	170	206	244	273	315	344	388	444	490	531	72	87	103	115	133	145	164	188	207	224
CATAWBA 1	825	863	905	941	986	1019	1019	1073	1127	1158	349	366	383	399	418	432	432	455	477	491
CATAWBA 2	733	774	819	819	863	899	939	990	1041	1071	311	328	347	347	368	381	398	419	441	454
CLINTON 1	1937	1937	2085	2201	2201	2320	2464	2464	2642	2838	354	354	381	402	402	424	450	450	483	519
COMANCHE PK 1	921	959	1005	1045	1094	1132	1174	1232	1283	1318	382	397	416	432	452	467	484	508	528	542
COMANCHE PK 2	929	967	1014	1054	1102	1140	1181	1238	1288	1324	378	393	412	429	448	463	480	503	523	537
COOK 1	1259	1319	1370	1370	1437	1437	1520	1581	1581	1774	566	593	617	617	648	648	686	714	714	803
COOK 2	1274	1274	1330	1385	1385	1441	1528	1528	1594	1787	533	533	556	578	578	601	636	636	662	740
COOPER STN	3144	3144	3144	3144	3144	3144	3144	3144	3144	3144	579	579	579	579	579	579	579	579	579	579
CRYSTAL RVR 3	832	832	866	900	900	934	989	989	1029	1069	386	386	402	418	418	433	459	459	478	496
DAVIS-BESSE 1	876	876	915	952	952	988	1057	1057	1107	1156	411	411	429	446	446	463	496	496	519	542
DIABLO CNYN 1	731	777	814	846	846	883	947	994	1040	1040	336	357	374	389	389	406	435	456	478	478
DIABLO CNYN 2	757	803	803	834	887	917	917	975	1025	1091	347	369	369	383	407	421	421	448	470	501
DRESDEN 1	683	683	683	683	683	683	683	683	683	683	69	69	69	69	69	69	69	69	69	69
DRESDEN 2	3205	3205	3929	3929	3929	3929	3929	3929	3929	3929	587	587	718	718	718	718	718	718	718	718
DRESDEN 3	2768	2884	2977	3701	3701	3701	3701	3701	3701	3701	517	538	555	609	609	609	609	609	609	609
DUANE ARNOLD	1868	1955	1955	2020	2119	2119	2243	2337	2337	2423	343	359	359	371	389	389	412	429	429	445
ENRICO FERMI2	2667	2667	2871	2871	3095	3242	3242	3501	3501	3653	486	486	524	524	564	591	591	638	638	666
FARLEY 1	1025	1076	1121	1121	1178	1221	1221	1285	1442	1442	472	496	516	516	543	563	563	592	664	664
FARLEY 2	900	900	940	984	984	1022	1096	1096	1145	1201	415	415	433	453	453	471	505	505	528	554
FITZPATRICK	2669	2795	2900	2900	3045	3149	3149	3291	3418	3543	488	511	530	530	556	575	575	600	623	645
FORT CALHOUN	837	877	877	907	1040	1040	1040	1040	1040	1040	303	317	317	328	376	376	376	376	376	376
GINNA	801	822	943	943	943	943	943	943	943	943	294	301	344	344	344	344	344	344	344	344
GRAND GULF 1	2879	2868	2868	3017	3227	3379	3379	3586	3776	3776	477	510	510	537	574	600	600	637	670	670
GRAND GULF 2	2285	2434	2587	2710	2885	3005	3191	3428	3621	3789	420	448	478	498	530	553	587	630	666	697
HADDAM NECK	1110	1150	1307	1307	1307	1307	1307	1307	1307	1307	457	473	536	536	538	538	538	538	538	538
HARRIS 1	495	495	531	564	564	595	630	630	674	721	230	230	247	262	262	277	293	293	313	335
HATCH 1	2940	3039	3114	3177	3281	3348	3469	3567	3661	4221	537	555	569	580	599	611	634	652	669	771

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories (contd)

REACTOR	Assemblies										WTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
HATCH 2	2454	2554	2632	2699	2812	2877	3018	3122	3221	3781	449	467	481	493	514	526	551	570	588	691
HOPE CRK 1	2529	2683	2883	2883	3093	3231	3231	3474	3615	3815	460	488	525	525	563	588	588	632	658	658
HUMBOLDT BAY	390	390	390	390	390	390	390	390	390	390	28	28	28	28	28	28	28	28	28	28
INDIAN PT 1	160	160	160	160	160	160	160	160	160	160	31	31	31	31	31	31	31	31	31	31
INDIAN PT 2	1093	1093	1135	1176	1176	1369	1369	1369	1369	1369	498	498	518	537	537	625	625	625	625	625
INDIAN PT 3	1038	1038	1093	1143	1143	1192	1192	1251	1305	1305	474	474	499	521	521	544	544	571	595	595
KEWAUNEE	946	974	996	1019	1050	1171	1171	1171	1171	1171	366	377	386	394	406	453	453	453	453	453
LACROSSE	606	606	606	606	606	606	606	606	606	606	68	68	68	68	68	68	68	68	68	68
LASALLE CTY 1	2425	2588	2588	2717	2903	2903	3135	3311	3311	3470	442	472	472	495	529	529	571	604	604	632
LASALLE CTY 2	2330	2493	2625	2625	2812	2939	2939	3118	3279	3279	425	455	479	479	513	536	536	569	598	598
LIMERICK 2	1560	1714	1714	1921	2140	2140	2431	2650	2650	2830	284	312	312	350	389	389	442	482	482	515
LIMERICK 1	2290	2435	2599	2599	2767	2905	2905	3110	3219	3219	420	446	476	476	507	532	532	569	589	589
MAINE YANKEE	1507	1559	1559	1776	1776	1776	1776	1776	1776	1776	567	587	587	668	668	668	668	668	668	668
MCGUIRE 1	930	974	1012	1047	1047	1081	1147	1193	1238	1280	401	420	438	451	451	465	493	513	531	549
MCGUIRE 2	893	937	937	972	1025	1058	1124	1170	1217	1261	383	402	402	417	439	453	481	501	520	539
MILLSTONE 1	3074	3074	3654	3654	3654	3654	3654	3654	3654	3654	562	562	665	665	665	665	665	665	665	665
MILLSTONE 2	1096	1141	1180	1180	1238	1278	1278	1329	1375	1427	437	455	471	471	495	511	511	532	550	572
MILLSTONE 3	748	785	830	867	928	963	963	1021	1075	1108	345	362	383	400	428	444	444	471	496	511
MONTICELLO	2605	2681	3165	3165	3165	3165	3165	3165	3165	3165	472	488	571	571	571	571	571	571	571	571
NINE MILE PT1	2712	2860	3392	3392	3392	3392	3392	3392	3392	3392	494	520	614	614	614	614	614	614	614	614
NINE MILE PT2	2409	2409	2597	2597	2803	2803	2971	3238	3238	3375	436	436	470	470	507	507	537	584	584	609
NORTH ANNA 1	946	946	987	1025	1025	1083	1135	1135	1197	1248	436	436	455	472	472	490	523	523	552	575
NORTH ANNA 2	929	978	978	1016	1074	1074	1146	1219	1219	1275	420	451	451	468	495	495	528	562	562	588
OCONEE 1	1113	1161	1200	1200	1377	1377	1377	1377	1377	1377	517	539	557	557	639	639	639	639	639	639
OCONEE 2	1035	1035	1075	1112	1112	1289	1289	1289	1289	1289	480	480	499	516	516	598	598	598	598	598
OCONEE 3	1056	1056	1096	1096	1154	1331	1331	1331	1331	1331	480	489	508	508	535	617	617	617	617	617
OYSTER CRK 1	2341	2341	2901	2901	2901	2901	2901	2901	2901	2901	423	423	522	522	522	522	522	522	522	522
PALISADES	1148	1148	1197	1401	1401	1401	1401	1401	1401	1401	454	454	473	552	552	552	552	552	552	552
PALO VERDE 1	991	1029	1073	1110	1160	1197	1237	1295	1350	1384	420	444	463	479	501	517	535	560	584	599
PALO VERDE 2	933	971	1016	1053	1102	1139	1179	1237	1292	1327	402	418	438	454	476	492	509	535	559	574
PALO VERDE 3	909	954	1000	1037	1097	1132	1176	1237	1271	1330	392	411	431	447	474	489	508	535	549	575
PEACHBOTTOM 2	3867	4043	4188	4188	4390	5154	5154	5154	5154	5154	705	738	765	765	802	944	944	944	944	944
PEACHBOTTOM 3	3768	3768	3912	4051	4051	4187	4437	4437	5201	5201	693	693	719	745	745	769	815	815	955	955
PERRY 1	2348	2348	2520	2652	2652	2799	2952	2952	3156	3283	420	428	459	483	483	510	537	537	575	598
PERRY 2	2149	2149	2358	2510	2510	2664	2914	2914	3181	3412	380	388	426	454	454	482	528	528	576	619
PILGRIM 1	2922	2922	3033	3613	3613	3613	3613	3613	3613	3613	530	530	550	653	653	653	653	653	653	653
POINT BEACH 1	919	943	1064	1064	1064	1064	1064	1064	1064	1064	347	356	398	398	398	398	398	398	398	398
POINT BEACH 2	899	922	943	1064	1064	1064	1064	1064	1064	1064	330	346	364	397	397	397	397	397	397	397
PRAIRIE ISL 1	817	817	841	865	986	986	986	986	986	986	296	296	304	313	357	357	357	357	357	357
PRAIRIE ISL 2	866	895	920	920	952	1073	1073	1073	1073	1073	311	321	329	329	340	380	380	380	380	380
QUAD CITIES 1	3208	3337	3337	3437	4161	4161	4161	4161	4161	4161	581	604	604	622	749	749	749	749	749	749
QUAD CITIES 2	2878	2998	3099	3099	3823	3823	3823	3823	3823	3823	523	544	562	562	689	689	689	689	689	689
RANCHO SECO 1	862	905	944	975	975	1012	1072	1072	1118	1295	399	419	437	451	451	468	496	496	517	599
ROBINSON 2	847	885	1042	1042	1042	1042	1042	1042	1042	1042	364	381	448	448	448	448	448	448	448	448
RVR BEND 1	1957	2042	2146	2227	2347	2435	2530	2668	2788	2865	357	373	392	406	428	444	462	486	509	523
SALEM 1	1034	1034	1080	1128	1128	1171	1247	1247	1302	1356	475	475	496	517	517	538	572	572	598	623
SALEM 2	849	905	951	951	1014	1060	1060	1121	1176	1176	393	416	437	437	466	487	487	515	540	540
SAN ONOFRE 1	520	520	520	520	520	520	520	520	520	520	193	193	193	193	193	193	193	193	193	193

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
SAN ONOFRE 2	840	906	908	963	963	1021	1021	1094	1094	1160	359	387	387	411	411	436	436	467	467	495
SAN ONOFRE 3	750	750	812	812	887	887	980	980	1047	1047	320	320	347	347	379	379	418	418	447	447
SEABROOK 1	903	939	983	1015	1064	1101	1141	1197	1250	1283	382	398	416	430	451	466	483	507	529	543
SEABROOK-2	665	709	754	790	841	876	930	1000	1057	1107	282	300	319	335	356	371	394	423	448	469
SEQUOYAH 1	853	911	911	958	1025	1025	1107	1170	1170	1228	392	419	419	440	471	471	508	537	537	564
SEQUOYAH 2	885	885	932	980	980	1026	1106	1106	1166	1166	408	406	428	450	450	471	508	508	535	535
SHOREHAM	1287	1287	1417	1520	1520	1622	1774	1774	1939	2081	235	235	259	277	277	296	324	324	354	380
SOUTH TEXAS 1	680	713	749	775	822	847	880	927	953	997	368	384	403	417	443	456	474	499	513	537
SOUTH TEXAS 2	563	596	631	658	697	725	766	817	860	897	303	321	340	355	376	391	413	440	463	483
ST LUCIE 1	1332	1398	1449	1449	1522	1573	1573	1641	1698	1698	469	489	508	508	532	551	551	572	594	594
ST LUCIE 2	937	937	989	1041	1041	1091	1170	1170	1229	1287	355	355	375	395	395	414	444	444	466	488
SUMMER 1	975	975	1019	1048	1108	1139	1139	1198	1241	1294	448	448	468	482	509	524	524	550	570	595
SURRY 1	1093	1093	1130	1165	1322	1322	1322	1322	1322	1322	499	499	516	532	604	604	604	604	604	604
SURRY 2	990	1035	1071	1071	1228	1228	1228	1228	1228	1228	452	473	490	490	562	562	562	562	562	562
SUSQUEHANNA 1	2540	2540	2679	2814	2814	2947	3186	3186	3359	3534	449	449	474	497	497	521	562	562	593	623
SUSQUEHANNA 2	2337	2512	2652	2652	2854	2985	2985	3180	3352	3352	416	447	472	472	508	531	531	565	596	596
3 MILE ISL 1	955	1008	1008	1047	1108	1285	1285	1285	1285	1285	443	487	467	486	514	598	596	596	596	596
TROJAN	940	969	993	1017	1050	1074	1114	1146	1175	1204	433	446	457	468	484	495	513	528	541	555
TURKEY PT 3	926	965	997	1154	1154	1154	1154	1154	1154	1154	423	441	455	527	527	527	527	527	527	527
TURKEY PT 4	884	884	918	948	1105	1105	1105	1105	1105	1105	404	404	418	433	505	505	505	505	505	505
VOGTLE 1	850	895	944	978	1041	1073	1117	1182	1216	1276	392	413	436	451	480	495	515	545	561	589
VOGTLE 2	775	820	869	903	962	994	1039	1104	1138	1196	358	378	401	417	444	459	479	509	525	552
VT YANKEE 1	2558	2623	2878	3044	3044	3044	3044	3044	3044	3044	471	484	493	561	561	561	561	561	561	561
WASH NUCLEAR2	2434	2551	2645	2736	2870	2958	3121	3249	3365	3480	432	453	469	485	509	524	553	576	596	616
WNP-1	805	849	894	929	980	1015	1069	1139	1198	1246	367	387	408	424	447	463	488	520	545	568
WNP-3	830	878	925	958	1011	1043	1098	1169	1227	1280	355	375	396	410	433	447	470	501	526	549
WATERFORD 3	883	912	958	958	1046	1078	1127	1191	1191	1273	365	386	406	406	444	457	478	505	505	540
WATTS BAR 1	739	792	792	840	840	886	935	935	1004	1077	338	362	362	384	384	405	428	428	459	493
WATTS BAR 2	690	690	745	792	792	837	837	908	952	952	315	315	341	362	362	383	383	415	436	436
WOLF CRK 1	672	699	733	759	796	824	854	897	937	962	310	323	338	350	367	380	394	414	432	444
YANKEE-ROWE 1	643	643	643	643	643	643	643	643	643	643	154	154	154	154	154	154	154	154	154	154
ZION 1	1181	1217	1244	1271	1464	1464	1464	1464	1464	1464	539	558	568	580	669	669	669	669	669	669
ZION 2	1187	1223	1251	1278	1318	1511	1511	1511	1511	1511	541	558	571	583	601	689	689	689	689	689
BRUNSWICK-1 PWR POOL	160	160	160	160	160	160	160	160	160	160	69	69	69	69	69	69	69	69	69	69
BRUNSWICK-2 PWR POOL	144	144	144	144	144	144	144	144	144	144	65	65	65	65	65	65	65	65	65	65
MORRIS-BWR	879	879	879	879	879	879	879	879	879	879	169	169	169	169	169	169	169	169	169	169
MORRIS-PWR	350	350	350	350	350	350	350	350	350	350	132	132	132	132	132	132	132	132	132	132
WEST VALLEY-B	310	310	310	310	310	310	310	310	310	310	54	54	54	54	54	54	54	54	54	54
WEST VALLEY-P	121	121	121	121	121	121	121	121	121	121	46	46	46	46	46	46	46	46	46	46
GENERIC PWR	1013	2478		4559		8134		14795			467	1129	2054		3640		6678			
		1596		3171		5831		11599		17726		733		1437		2815		5173		7859
GENERIC BWR	1785		4121		7462		13438		23506		323		753		1363		2455		4292	
		2848		5239		9096		18752		28722		521		957		1662		3425		5244

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies						:	MTIHM					
	2015	2016	2017	2018	2019	2020		2015	2016	2017	2018	2019	2020
ARK NUCLEAR 1	1339	1339	1339	1339	1339	1339	:	821	821	821	821	821	821
ARK NUCLEAR 2	1371	1371	1371	1371	1371	1371	:	572	572	572	572	572	572
B VALLEY 1	1409	1409	1409	1409	1409	1409	:	849	849	849	849	849	849
B VALLEY 2	914	960	980	996	1048	1048	:	421	443	443	459	483	483
BELLEFONTE 1	991	1050	1050	1105	1171	1171	:	450	477	477	502	532	532
BELLEFONTE 2	969	969	1029	1094	1094	1152	:	439	439	466	496	496	523
BIG ROCK 1	511	511	511	511	511	511	:	66	66	66	66	66	66
BRAIDWOOD 1	1180	1225	1261	1293	1323	1376	:	499	518	533	547	559	582
BRAIDWOOD 2	1097	1141	1177	1209	1239	1290	:	464	482	498	511	524	545
BROWNS FERRY1	4177	4177	4177	4177	4177	4177	:	766	766	766	766	766	766
BROWNS FERRY2	4908	4908	4908	4908	4908	4908	:	899	899	899	899	899	899
BROWNS FERRY3	3809	3809	4043	4007	4007	4007	:	697	697	739	828	828	828
BRUNSWICK 1	3585	3585	3585	3585	3585	3585	:	670	670	670	670	670	670
BRUNSWICK 2	3805	3805	3805	3805	3805	3805	:	712	712	712	712	712	712
BYRON 1	1224	1289	1305	1332	1383	1414	:	517	536	552	563	576	598
BYRON 2	1172	1216	1251	1283	1314	1365	:	496	514	529	542	556	577
CALLAWAY 1	1184	1258	1324	1324	1373	1430	:	508	537	565	565	586	610
CALVERT CLF 1	1819	1819	1819	1819	1819	1819	:	709	709	709	709	709	709
CALVERT CLF 2	1736	1736	1736	1736	1736	1736	:	615	615	615	615	615	615
CARROLL COUNTY-1	593	632	673	714	747	789	:	251	267	284	302	316	333
CARROLL COUNTY-2	566	605	646	687	720	762	:	239	256	273	290	304	322
CATAWBA 1	1203	1255	1294	1330	1373	1411	:	510	532	548	563	582	598
CATAWBA 2	1115	1151	1151	1185	1218	1272	:	472	488	488	502	516	539
CLINTON 1	2038	2997	3109	3109	3225	3355	:	519	548	568	568	589	613
COMANCHE PK 1	1367	1418	1459	1495	1531	1590	:	562	583	599	614	628	652
COMANCHE PK 2	1374	1425	1468	1503	1540	1599	:	558	578	595	609	624	648
COOK 1	1774	1774	1774	1774	1774	1774	:	803	803	803	803	803	803
COOK 2	1787	1787	1787	1787	1787	1787	:	740	740	740	740	740	740
COOPER STN	3144	3144	3144	3144	3144	3144	:	579	579	579	579	579	579
CRYSTAL RVR 3	1069	1119	1164	1341	1341	1341	:	496	519	540	622	622	622
DAVIS-BESSE 1	1156	1216	1272	1449	1449	1449	:	542	570	596	679	679	679
DIABLO CNYN 1	1077	1130	1181	1181	1210	1258	:	495	519	542	542	556	578
DIABLO CNYN 2	1134	1134	1175	1204	1254	1290	:	521	521	539	553	576	592
DRESDEN 1	683	683	683	683	683	683	:	69	69	69	69	69	69
DRESDEN 2	3929	3929	3929	3929	3929	3929	:	718	718	718	718	718	718
DRESDEN 3	3701	3701	3701	3701	3701	3701	:	689	689	689	689	689	689
DUANE ARNOLD	2791	2791	2791	2791	2791	2791	:	512	512	512	512	512	512
ENRICO FERMI2	3653	3886	4036	4036	4191	4191	:	666	708	736	736	764	764
FARLEY 1	1442	1442	1442	1442	1442	1442	:	664	664	664	664	664	664
FARLEY 2	1201	1255	1412	1412	1412	1412	:	554	578	651	651	651	651
FITZPATRICK	4103	4103	4103	4103	4103	4103	:	746	746	746	746	746	746
FORT CALHOUN	1040	1040	1040	1040	1040	1040	:	376	376	376	376	376	376
GINNA	943	943	943	943	943	943	:	344	344	344	344	344	344
GRAND GULF 1	3907	4145	4145	4308	4459	4632	:	694	738	738	764	791	821
GRAND GULF 2	3928	4091	4258	4421	4557	4728	:	722	752	782	813	838	869
HADDAM NECK	1307	1307	1307	1307	1307	1307	:	538	538	538	538	538	538
HARRIS 1	721	762	762	793	829	829	:	335	354	354	369	385	385
HATCH 1	4221	4221	4221	4221	4221	4221	:	771	771	771	771	771	771

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies						MTIHW					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
HATCH 2	3781	3781	3781	3781	3781	3781	691	691	691	691	691	691
HOPE CRK 1	3818	3986	3986	4140	4329	4329	695	725	725	753	788	788
HUMBOLDT BAY	390	390	390	390	390	390	28	28	28	28	28	28
INDIAN PT 1	160	160	160	160	160	160	31	31	31	31	31	31
INDIAN PT 2	1369	1369	1369	1369	1369	1369	625	625	625	625	625	625
INDIAN PT 3	1305	1367	1560	1560	1560	1560	595	624	712	712	712	712
KENAUWEE	1171	1171	1171	1171	1171	1171	453	453	453	453	453	453
LACROSSE	606	606	606	606	606	606	68	68	68	68	68	68
LASALLE CTY 1	3587	3587	3771	3915	3915	4105	654	654	687	714	714	748
LASALLE CTY 2	3396	3591	3591	3730	3854	3854	619	655	655	680	703	703
LIMERICK 2	3043	3043	3250	3469	3469	3668	554	554	591	631	631	668
LIMERICK 1	3387	3522	3522	3647	3801	3801	620	644	644	667	695	695
MAINE YANKEE	1776	1776	1776	1776	1776	1776	668	668	668	668	668	668
MCGUIRE 1	1312	1368	1418	1450	1494	1494	563	586	608	621	640	640
MCGUIRE 2	1294	1294	1344	1381	1416	1456	553	553	574	590	605	622
MILLSTONE 1	3654	3654	3654	3654	3654	3654	665	665	665	665	665	665
MILLSTONE 2	1644	1644	1644	1644	1644	1644	660	660	660	660	660	660
MILLSTONE 3	1151	1191	1229	1229	1283	1320	531	550	567	567	583	609
MONTICELLO	3165	3165	3165	3165	3165	3165	571	571	571	571	571	571
NINE MILE PT1	3392	3392	3392	3392	3392	3392	614	614	614	614	614	614
NINE MILE PT2	3375	3589	3589	3739	3927	3927	609	648	648	675	708	708
NORTH ANNA 1	1248	1311	1468	1468	1468	1468	575	604	676	676	676	676
NORTH ANNA 2	1330	1330	1487	1487	1487	1487	613	613	686	686	686	686
OCONEE 1	1377	1377	1377	1377	1377	1377	639	639	639	639	639	639
OCONEE 2	1289	1289	1289	1289	1289	1289	598	598	598	598	598	598
OCONEE 3	1331	1331	1331	1331	1331	1331	617	617	617	617	617	617
OYSTER CRK 1	2901	2901	2901	2901	2901	2901	522	522	522	522	522	522
PALISADES	1401	1401	1401	1401	1401	1401	552	552	552	552	552	552
PALO VERDE 1	1433	1484	1525	1561	1597	1655	620	643	661	676	692	717
PALO VERDE 2	1374	1424	1464	1502	1538	1596	594	616	634	650	666	691
PALO VERDE 3	1374	1414	1448	1490	1536	1575	594	612	627	645	665	682
PEACHBOTTOM 2	5154	5154	5154	5154	5154	5154	944	944	944	944	944	944
PEACHBOTTOM 3	5201	5201	5201	5201	5201	5201	955	955	955	955	955	955
PERRY 1	3283	3479	3634	3634	3767	3984	598	633	661	661	686	725
PERRY 2	3412	3635	3861	3861	4047	4282	619	659	700	700	734	777
PILGRIM 1	3613	3613	3613	3613	3613	3613	653	653	653	653	653	653
POINT BEACH 1	1064	1064	1064	1064	1064	1064	398	398	398	398	398	398
POINT BEACH 2	1064	1064	1064	1064	1064	1064	397	397	397	397	397	397
PRAIRIE ISL 1	986	986	986	986	986	986	357	357	357	357	357	357
PRAIRIE ISL 2	1073	1073	1073	1073	1073	1073	380	380	380	380	380	380
QUAD CITIES 1	4161	4161	4161	4161	4161	4161	749	749	749	749	749	749
QUAD CITIES 2	3823	3823	3823	3823	3823	3823	689	689	689	689	689	689
RANCHO SECO 1	1295	1295	1295	1295	1295	1295	599	599	599	599	599	599
ROBINSON 2	1042	1042	1042	1042	1042	1042	448	448	448	448	448	448
RVR BEND 1	2977	3097	3192	3280	3363	3506	543	565	582	598	613	638
SALEM 1	1356	1424	1488	1681	1681	1681	623	654	683	772	772	772
SALEM 2	1219	1286	1286	1336	1392	1392	560	590	590	613	639	639
SAN ONOFRE 1	520	520	520	520	520	520	193	193	193	193	193	193

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

REACTOR	Assemblies						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
SAN ONOFRE 2	1160	1221	1221	1294	1294	1362	495	521	521	553	553	582
SAN ONOFRE 3	1104	1163	1163	1221	1221	1294	471	497	497	521	521	553
SEABROOK 1	1331	1383	1424	1454	1488	1544	564	586	603	616	630	654
SEABROOK-2	1148	1196	1245	1294	1334	1385	486	506	527	548	565	586
SEQUOYAH 1	1228	1297	1342	1342	1388	1388	564	596	616	616	638	638
SEQUOYAH 2	1208	1277	1277	1328	1372	1372	555	586	586	610	630	630
SHOREHAM	2081	2219	2357	2357	2472	2617	380	405	430	430	451	477
SOUTH TEXAS 1	1031	1061	1088	1120	1154	1183	555	571	586	603	621	637
SOUTH TEXAS 2	928	964	1002	1039	1070	1109	500	519	540	560	577	598
ST LUCIE 1	1915	1915	1915	1915	1915	1915	676	676	676	676	676	676
ST LUCIE 2	1287	1358	1424	1424	1472	1528	480	515	540	540	558	579
SUMMER 1	1319	1319	1380	1419	1457	1500	600	606	634	652	670	690
SURRY 1	1322	1322	1322	1322	1322	1322	604	604	604	604	604	604
SURRY 2	1228	1228	1228	1228	1228	1228	562	562	562	562	562	562
SUSQUEHANNA 1	3534	3746	3940	3940	4075	4244	623	661	695	695	718	748
SUSQUEHANNA 2	3476	3685	3685	3835	3972	3972	617	654	654	681	705	705
3 MILE ISL 1	1285	1285	1285	1285	1285	1285	596	596	596	596	596	596
TROJAN	1225	1418	1418	1418	1418	1418	564	653	653	653	653	653
TURKEY PT 3	1154	1154	1154	1154	1154	1154	527	527	527	527	527	527
TURKEY PT 4	1105	1105	1105	1105	1105	1105	505	505	505	505	505	505
VOGTLE 1	1322	1362	1394	1436	1481	1520	610	628	643	663	683	701
VOGTLE 2	1239	1279	1311	1353	1399	1439	572	590	605	624	645	664
VT YANKEE 1	3044	3044	3044	3044	3044	3044	561	561	561	561	561	561
WASH NUCLEAR2	3565	3706	3839	3939	4031	4141	631	656	680	697	713	733
WNP-1	1287	1335	1384	1433	1473	1524	587	609	631	654	672	695
WNP-3	1323	1373	1424	1475	1517	1570	563	589	611	633	651	674
WATERFORD 3	1316	1360	1400	1441	1441	1494	553	578	595	612	612	635
WATTS BAR 1	1077	1140	1140	1187	1231	1231	493	522	522	543	564	564
WATTS BAR 2	1013	1062	1062	1114	1114	1183	464	486	486	510	510	542
WOLF CRK 1	998	1035	1066	1093	1119	1162	460	478	492	504	516	536
YANKEE-ROWE 1	643	643	643	643	643	643	154	154	154	154	154	154
ZION 1	1464	1464	1464	1464	1464	1464	669	669	669	669	669	669
ZION 2	1511	1511	1511	1511	1511	1511	689	689	689	689	689	689
BRUNSWICK-1 PWR POOL	160	160	160	160	160	160	69	69	69	69	69	69
BRUNSWICK-2 PWR POOL	144	144	144	144	144	144	65	65	65	65	65	65
MORRIS-BWR	879	879	879	879	879	879	169	169	169	169	169	169
MORRIS-PWR	350	350	350	350	350	350	132	132	132	132	132	132
WEST VALLEY-B	310	310	310	310	310	310	54	54	54	54	54	54
WEST VALLEY-P	121	121	121	121	121	121	46	46	46	46	46	46
GENERIC PWR	20489		27512		35013		9059		12096		15328	
		23964		31442		39285		10565		13792		17163
GENERIC BWR	32519		43835		54699		5936		8000		9980	
		37787		49561		61961		6897		9043		11302

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

		SUBTOTALS BY REACTOR TYPE AND TOTALS										
		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
		----	----	----	----	----	----	----	----	----	----	----
PWR	ASSEMBLY	16087	17760	19788	21859	24902	27337	30042	33138	35575	39289	41433
PWR	MT.	6787	7500	8390	9288	10587	11650	12819	14140	15202	16825	17743
BWR	ASSEMBLY	25461	27123	30727	33280	37381	41236	43819	48533	51412	56170	59220
BWR	MT.	4635	4936	5590	6052	6796	7496	7963	8816	9335	10190	10740
TOTAL ASSEMBLY		41548	44883	50515	55139	62283	68573	73861	81671	86987	95459	100653
TOTAL MT.		11423	12436	13979	15340	17383	19146	20781	22956	24537	27015	28483
		SUBTOTALS BY REACTOR TYPE AND TOTALS										
		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
		----	----	----	----	----	----	----	----	----	----	
PWR	ASSEMBLY	45487	47749	51613	54541	57174	60895	63254	67310	69781	73719	
PWR	MT.	19513	20497	22163	23426	24574	26179	27213	28982	30053	31792	
BWR	ASSEMBLY	64281	67517	71809	75925	78945	83839	87120	92356	95670	100969	
BWR	MT.	11656	12239	13015	13757	14302	15184	15776	16715	17314	18269	
TOTAL ASSEMBLY		109768	115266	123422	130466	136119	144734	150374	159666	165451	174688	
TOTAL MT.		31169	32736	35178	37184	38876	41363	42989	45697	47367	50061	
		SUBTOTALS BY REACTOR TYPE AND TOTALS										
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
		----	----	----	----	----	----	----	----	----	----	
PWR	ASSEMBLY	77074	80095	84461	87966	92974	97609	102446	108626	114732	120651	
PWR	MT.	33265	34585	36487	38006	40205	42250	44393	47119	49804	52327	
BWR	ASSEMBLY	106057	110216	117987	122880	130081	135575	143091	151674	160174	169057	
BWR	MT.	19187	19941	21342	22231	23532	24533	25902	27465	29012	30631	
TOTAL ASSEMBLY		183131	190311	202448	210846	223055	233184	245537	260300	274906	289708	
TOTAL MT.		52453	54527	57830	60236	63738	66784	70295	74584	78817	82958	

TABLE A.4. Middle Case (with Extended Burnup) 1984 Projected Inventories
(contd)

		SUBTOTALS BY REACTOR TYPE AND TOTALS					
		2015	2016	2017	2018	2019	2020
		----	----	----	----	----	----
PWR	ASSEMBLY	125667	131579	137339	143333	148368	154354
PWR	WT.	54508	57098	59616	62239	64424	67008
BWR	ASSEMBLY	177220	185232	193273	201360	208592	217736
BWR	WT.	32121	33576	35040	36460	37775	39436
TOTAL	ASSEMBLY	302887	316811	330612	344693	356960	372090
TOTAL	WT.	86628	90674	94656	98699	102199	106444

TABLE A.5. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Annual Storage Requirements

POOL	ASSEMBLIES										MTTHM									
	1986	1987	1988	1989	1990	1991	1992	1993	1994	:	1986	1987	1988	1989	1990	1991	1992	1993	1994	
MILLSTONE 2	38	0	57	54	0	59	33	0	46	:	15	0	23	22	0	24	13	0	19	
SURRY 1&2	15	0	44	85	44	59	65	57	37	:	7	0	20	39	20	27	30	26	17	
MILLSTONE 1		26	0	124	0	182	0	195	112	:		5	0	22	0	32	0	34	20	
PALISADES			37	0	0	67	33	0	40	:			14	0	0	26	13	0	16	
OCONEE 1&2			1	44	45	57	38	130	39	:			0	20	21	26	18	60	18	
ST LUCIE 1			61	0	55	89	0	77	62	:			18	0	20	27	0	29	19	
PEACHBOTTOM 2			65	167	0	226	132	0	146	:			12	30	0	42	24	0	27	
PEACHBOTTOM 3					127	0	132	239	0	:					23	0	24	44	0	
ROBINSON 2						9	29	49	0	:						4	12	21	0	
LASALLE CTY 1&2						319	128	213	277	:						58	23	39	50	
BRUNSWICK 2							62	171	0	:							12	32	0	
PRAIRIE ISL 1&2							3	38	24	:							1	13	9	
PILGRIM 1								148	0	:								26	0	
CALVERT CLF 1&2									84	:									33	
LACROSSE									6	:									1	
OCONEE 3									24	:									11	
FITZPATRICK									49	:									9	
										:										
PWR TOTAL	53		200	183	144	340	201	351	356	:	22		77	81	61	134	87	149	141	
										:										
BWR TOTAL		26	65	291	127	727	454	966	590	:		5	12	53	23	132	83	175	107	
										:										
TOTAL	53	26	265	474	271	1067	655	1317	946	:	22	5	89	134	85	266	171	324	248	

TABLE A.5. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MILLSTONE 2	51	0	87	49	0	58	35	0	38	61	21	0	27	20	0	24	14	0	15	25
SURRY 1&2	102	35	84	72	41	57	71	63	36	94	47	16	29	33	19	26	33	29	17	43
MILLSTONE 1	0	110	0	121	0	168	0	208	107	0	0	20	0	21	0	30	0	37	19	0
PALISADES	64	34	0	41	45	0	34	66	0	53	25	13	0	16	18	0	13	26	0	21
OCONEE 1&2	57	77	68	40	45	66	38	132	38	52	26	36	32	19	21	31	18	61	18	24
ST LUCIE 1	69	0	96	52	0	81	52	0	64	63	26	0	30	19	0	25	19	0	20	23
PEACHBOTTOM 2	200	0	247	144	0	220	143	0	145	188	37	0	46	27	0	41	26	0	27	35
PEACHBOTTOM 3	206	143	0	148	175	0	142	258	0	190	38	26	0	27	32	0	26	47	0	35
ROBINSON 2	42	30	54	31	0	48	31	53	30	0	18	13	23	13	0	21	13	23	13	0
LASALLE CTY 1&2	190	126	480	133	156	415	132	230	258	176	34	23	85	24	28	76	24	42	47	32
BRUNSWICK 2	148	101	0	106	127	0	93	183	0	141	28	19	0	20	24	0	17	34	0	26
PRAIRIE ISL 1&2	65	50	82	50	28	75	25	82	50	62	23	17	29	17	9	26	9	29	17	22
PILGRIM 1	157	106	0	115	0	180	0	195	0	154	28	19	0	20	0	32	0	35	0	27
CALVERT CLF 1&2	58	48	148	48	53	134	50	76	98	59	23	19	58	19	21	53	20	30	38	23
LACROSSE	20	13	25	14	17	23	11	24	13	0	2	1	3	2	2	3	1	3	1	0
OCONEE 3	56	0	72	0	47	0	38	72	0	54	26	0	33	0	22	0	18	33	0	25
FITZPATRICK	143	0	175	107	0	160	108	0	106	137	26	0	31	19	0	29	19	0	19	25
BRUNSWICK 1	103	0	184	107	0	166	93	0	98	141	19	0	34	20	0	31	17	0	18	26
INDIAN PT 3	2	0	79	55	0	68	0	89	43	0	1	0	36	25	0	31	0	41	20	0
BYRON 1&2	26	96	89	70	97	59	108	60	88	0	11	41	38	30	41	25	46	25	37	0
COOPER STN	64	118	69	80	105	68	119	68	87	0	12	22	13	15	19	12	22	12	16	0
FORT CALHOUN	12	41	0	39	45	0	41	25	0	0	4	15	0	14	16	0	15	9	0	0
DAVIS-BESSE 1	25	0	40	48	0	37	71	0	53	0	12	0	19	22	0	17	33	0	25	0
BIG ROCK 1	0	14	17	18	15	0	0	0	0	0	0	1	2	2	2	2	0	0	0	0
POINT BEACH 1&2	39	44	45	58	44	69	44	52	0	0	14	16	16	21	16	24	16	18	0	0
ARK NUCLEAR 1	40	0	63	0	71	0	54	0	0	0	19	0	29	0	33	0	25	0	0	0
BRAIDWOOD 1&2	80	71	97	80	108	80	87	0	0	0	34	30	41	25	46	25	37	0	0	0
INDIAN PT 2	35	51	0	41	74	0	57	0	0	0	16	23	0	19	34	0	26	0	0	0
ENRICO FERMI2	224	0	249	0	271	158	0	0	0	0	41	0	45	0	49	29	0	0	0	0
B VALLEY 1	4	53	0	37	78	0	59	0	0	0	2	24	0	17	36	0	27	0	0	0
OYSTER CRK 1	41	0	156	106	0	98	0	0	0	0	7	0	28	19	0	17	0	0	0	0
SEQUOYAH 1&2	1	57	147	48	81	97	62	0	0	0	28	67	22	37	45	28	0	0	0	0
ZION 1&2	39	90	56	102	54	76	0	0	0	0	18	41	26	47	25	35	0	0	0	0
MAINE YANKEE	19	66	0	74	43	0	0	0	0	0	7	25	0	28	16	0	0	0	0	0
BROWNS FERRY2	81	0	162	0	158	0	0	0	0	0	15	0	29	0	29	0	0	0	0	0
COOK 1&2	91	48	91	104	65	0	0	0	0	0	37	22	37	45	30	0	0	0	0	0
MILLSTONE 3	14	37	0	39	43	0	0	0	0	0	6	17	0	18	20	0	0	0	0	0
SAN ONOFRE 1,2,13	147	116	0	118	70	0	0	0	0	0	55	50	0	50	30	0	0	0	0	0
WASH NUCLEAR2	51	165	91	128	0	0	0	0	0	0	9	29	16	23	0	0	0	0	0	0
ARK NUCLEAR 2	34	0	56	0	0	0	0	0	0	0	14	0	23	0	0	0	0	0	0	0
PERRY 1&2	372	0	438	0	0	0	0	0	0	0	68	0	80	0	0	0	0	0	0	0

TABLE A.5. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM										
	1995	1998	1997	1998	1999	2000	2001	2002	2003	2004	:	1995	1998	1997	1998	1999	2000	2001	2002	2003	2004
DRESDEN 2								111	0	153	:								20	0	28
HADDAM NECK								36	28	0	:								15	12	0
DUANE ARNOLD								44	65	0	:								8	12	0
NINE MILE PT1								86	0	158	:								15	0	28
BROWNS FERRY1								119	0	223	:								22	0	40
WATTS BAR 1&2								90	47	61	:								41	22	28
VT YANKEE 1								43	50	71	:								8	9	13
NORTH ANNA 1&2								113	38	54	:								52	18	25
KEWAUNEE								26	23	30	:								10	9	12
ST LUCIE 2										24	:										9
LIMERICK 1										192	:										35
SALEM 1										8	:										4
											:										
											:										
PWR TOTAL	566	337	906	771	751	1502	957	1900	1177	1497	:	235	141	366	324	320	615	412	818	491	645
											:										
BWR TOTAL	1167	663	1215	1343	653	1860	1124	2428	1415	2577	:	211	119	221	243	117	335	203	438	256	468
											:										
TOTAL	1733	1000	2121	2114	1404	3362	2081	4328	2592	4074	:	446	261	587	567	437	950	615	1256	747	1113

TABLE A.5. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
MILLSTONE 2	0	45	39	0	58	40	0	51	46	52	0	18	16	0	24	18	0	21	19	21
SURRY 1&2	38	45	73	35	157	0	0	0	0	0	17	21	34	18	72	0	0	0	0	0
MILLSTONE 1	117	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0
PALISADES	40	0	49	0	0	0	0	0	0	0	16	0	19	0	0	0	0	0	0	0
OCONEE 1&2	46	48	79	37	177	0	0	0	0	0	21	22	37	17	82	0	0	0	0	0
ST LUCIE 1	0	66	51	0	73	51	0	68	57	0	0	21	19	0	23	19	0	22	21	0
PEACHBOTTOM 2	0	176	145	0	202	0	0	0	0	0	0	33	27	0	37	0	0	0	0	0
PEACHBOTTOM 3	164	0	144	139	0	136	250	0	0	0	30	0	26	25	0	25	46	0	0	0
ROBINSON 2	33	38	0	0	0	0	0	0	0	0	14	16	0	0	0	0	0	0	0	0
LASALLE CTY 1&2	146	326	132	129	373	127	232	356	161	159	27	59	24	23	68	23	42	65	29	29
BRUNSWICK 2	117	0	104	91	0	89	177	0	129	127	22	0	19	17	0	17	33	0	24	24
PRAIRIE ISL 1&2	53	29	49	24	153	0	0	0	0	0	19	10	17	9	55	0	0	0	0	0
PILGRIM 1	127	0	111	0	0	0	0	0	0	0	22	0	20	0	0	0	0	0	0	0
CALVERT CLF 1&2	48	107	48	48	121	48	76	102	54	217	19	42	19	19	48	19	30	40	21	54
LACROSSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCONEE 3	45	0	40	0	58	0	0	0	0	0	21	0	19	0	27	0	0	0	0	0
FITZPATRICK	0	126	105	0	145	104	0	142	127	125	0	23	19	0	26	19	0	26	23	22
BRUNSWICK 1	0	132	105	0	152	89	0	145	135	132	0	25	20	0	28	17	0	27	25	25
INDIAN PT 3	55	0	55	50	0	49	0	59	54	0	25	0	25	23	0	22	0	27	25	0
BYRON 1&2	88	64	80	58	85	64	71	101	94	56	37	27	34	25	36	27	30	43	40	24
FORT CALHOUN	38	40	0	30	0	0	0	0	0	0	14	14	0	11	0	0	0	0	0	0
DAVIS-BESSE 1	44	0	39	37	0	36	69	0	50	49	21	0	18	17	0	17	32	0	23	23
POINT BEACH 1&2	42	47	142	0	0	0	0	0	0	0	15	17	50	0	0	0	0	0	0	0
ARK NUCLEAR 1	45	0	41	0	57	0	0	0	0	0	21	0	19	0	26	0	0	0	0	0
BRAIDWOOD 1&2	89	63	80	60	86	64	73	101	96	60	38	27	34	25	36	27	31	43	41	25
INDIAN PT 2	48	0	42	41	0	0	0	0	0	0	22	0	19	19	0	0	0	0	0	0
ENRICO FERMI2	224	0	204	0	224	147	0	259	0	152	41	0	37	0	41	27	0	47	0	28
B VALLEY 1	48	0	43	36	0	36	75	0	53	52	22	0	20	17	0	17	35	0	24	24
OYSTER CRK 1	124	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0
SEQUOYAH 1&2	52	58	47	95	67	46	162	63	60	58	24	27	22	44	31	21	74	29	28	27
ZION 1&2	65	72	55	54	233	0	0	0	0	0	30	33	25	25	107	0	0	0	0	0
MAINE YANKEE	46	52	0	0	0	0	0	0	0	0	17	20	0	0	0	0	0	0	0	0
BROWNS FERRY2	184	0	185	0	236	0	0	235	0	216	33	0	30	0	43	0	0	43	0	39
COOK 1&2	57	60	107	55	67	56	170	61	66	193	23	28	46	22	31	23	73	28	27	83
MILLSTONE 3	52	37	45	37	61	35	0	58	54	33	24	17	21	17	28	18	0	27	25	15
SAN ONOFRE 1,2,3	60	66	62	57	75	58	93	73	67	66	26	28	26	24	32	25	40	31	29	28
WASH NUCLEAR2	105	117	94	91	134	88	163	128	116	115	18	21	17	16	24	15	29	23	20	20
ARK NUCLEAR 2	49	0	49	0	60	0	76	59	0	0	20	0	20	0	25	0	32	25	0	0
PERRY 1&2	415	0	379	286	0	301	403	0	471	358	72	0	60	52	0	55	73	0	86	65
DRESDEN 2	128	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0
HADDAM NECK	35	40	0	0	0	0	0	0	0	0	14	16	0	0	0	0	0	0	0	0
DUANE ARNOLD	77	87	0	65	99	0	124	94	0	86	14	16	0	12	18	0	23	17	0	16
NINE MILE PT1	0	148	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0
BROWNS FERRY1	0	206	0	168	0	0	0	0	0	0	0	37	0	29	0	0	0	0	0	0
WATTS BAR 1&2	112	53	55	95	0	91	49	71	113	73	51	24	25	44	0	42	22	33	52	34

TABLE A.5. Middle Case (with Extended Burnup) Maximum At-Reacto Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
VT YANKEE 1	60	67	53	0	0	0	0	0	0	0	11	12	10	0	0	0	0	0	0	0
NORTH ANNA 1&2	90	49	41	76	58	38	144	73	62	107	42	23	19	35	27	18	66	34	29	49
Kewaunee	25	28	22	23	31	0	0	0	0	0	10	11	8	9	12	0	0	0	0	0
ST LUCIE 2	54	0	52	52	0	50	79	0	59	58	20	0	20	20	0	19	30	0	22	22
LIMERICK 1	0	145	164	0	168	138	0	205	109	0	0	26	30	0	31	25	0	37	20	0
SALEM 1	49	0	46	46	0	45	76	0	55	54	22	0	21	21	0	21	35	0	25	25
BROWNS FERRY3	60	0	164	0	238	0	288	0	207	0	11	0	30	0	43	0	52	0	38	0
DRESDEN 3		71	93	0	0	0	0	0	0	0		13	17	0	0	0	0	0	0	0
HATCH 1&2		127	153	130	217	130	262	204	193	560		23	28	24	40	24	48	37	35	102
VOGTLE 1&2		38	98	68	122	64	89	130	68	118		17	45	31	56	30	41	60	31	54
SUSQUEHANNA 1&2		136	279	135	202	264	239	195	345	175		24	49	24	36	46	42	34	61	31
GINNA		9	0	0	0	0	0	0	0	0		3	0	0	0	0	0	0	0	0
RANCHO SECO 1		2	39	31	0	37	60	0	46	0		1	18	14	0	17	28	0	21	0
TURKEY PT 1&2			30	189	0	0	0	0	0	0			14	87	0	0	0	0	0	0
CLINTON 1			37	116	0	119	144	0	178	196			7	21	0	22	26	0	33	36
WNP-1			21	35	51	35	54	70	57	50			10	16	23	16	25	32	26	23
WNP-3			46	33	53	32	55	71	58	53			20	14	23	14	24	31	25	23
PALO VERDE 1				22	50	37	40	58	55	34				10	22	16	17	25	24	15
PALO VERDE 2					14	37	40	58	55	35					6	16	17	25	24	15
PALO VERDE 3					9	35	44	61	34	59					4	15	19	27	15	26
QUAD CITIES 1&2					430	0	0	0	0	0					76	0	0	0	0	0
LIMERICK 2					42	0	291	219	0	180					8	0	53	40	0	33
SEABROOK 1					21	37	40	56	53	33					9	16	17	24	22	14
SALEM 2					37	46	0	61	55	0					17	21	0	28	25	0
SUMMER 1						20	0	57	45	53						9	0	26	21	24
CRYSTAL RVR 3							9	0	40	40							4	0	19	19
FARLEY 1								35	0	0								16	0	0
RVR BEND 1								118	122	77								22	22	14
WATERFORD 3								42	0	82								18	0	35
HOPE CRK 1								184	141	0								33	26	0
BELLEFONTE 1								16	49	0								7	22	0
SEABROOK-2									30	50									13	21
BELLEFONTE 2									49	0									22	0
COMANCHE PK 1&2									36	71									15	29
MCGUIRE 1										10										4
NINE MILE PT2										90										16
CALLAWAY 1										37										16
PWR TOTAL	1546	1154	1765	1424	2034	1187	1644	1855	1770	1853	665	482	758	630	881	517	723	720	775	772
BWR TOTAL	2048	1864	2631	1340	2862	1732	2573	2483	2434	2748	367	338	478	243	518	314	467	451	441	499
TOTAL	3594	3018	4396	2764	4896	2919	4217	4138	4204	4601	1032	820	1236	873	1399	831	1190	1170	1217	1271

TABLE A.5. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	Assemblies						:	MTIHM					
	2015	2016	2017	2018	2019	2020		2015	2016	2017	2018	2019	2020
LASALLE CTY 1&2	234	195	184	283	124	190	:	43	38	34	52	23	35
INDIAN PT 3	0	62	0	0	0	0	:	0	28	0	0	0	0
BYRON 1&2	85	89	71	59	62	102	:	36	38	30	25	26	43
DAVIS-BESSE 1	0	60	56	0	0	0	:	0	28	26	0	0	0
BRAIDWOOD 1&2	85	89	72	64	60	104	:	36	38	30	27	25	44
ENRICO FERM12	0	233	150	0	155	0	:	0	42	27	0	28	0
SEQUOYAH 1&2	42	138	45	51	90	0	:	19	63	21	23	41	0
MILLSTONE 3	43	40	38	0	34	57	:	20	18	18	0	16	26
SAN ONOFRE 1,2,3	57	120	0	131	0	141	:	24	51	0	56	0	60
WASH NUCLEAR2	85	141	133	100	92	110	:	15	25	23	18	16	19
PERRY 1&2	0	419	381	0	319	452	:	0	76	69	0	58	82
WATTS BAR 1&2	61	112	0	99	44	89	:	28	51	0	45	20	32
NORTH ANNA 1&2	55	63	157	0	0	0	:	25	29	72	0	0	0
ST LUCIE 2	0	71	66	0	48	56	:	0	27	25	0	18	21
LIMERICK 1	168	135	0	125	154	0	:	31	25	0	23	28	0
SALEM 1	0	68	64	0	0	0	:	0	31	29	0	0	0
BROWNS FERRY3	145	0	234	0	0	0	:	28	0	42	0	0	0
VOGTLE 1&2	89	80	64	84	91	79	:	41	37	30	39	42	36
SUSQUEHANNA 1&2	124	421	194	150	272	189	:	22	74	34	26	48	30
CLINTON 1	0	159	112	0	116	130	:	0	29	20	0	21	24
WNP-1	41	48	49	49	40	51	:	19	22	22	22	18	23
WNP-3	43	50	51	51	42	53	:	19	22	22	22	18	23
PALO VERDE 1	49	51	41	36	36	58	:	21	22	18	16	16	25
PALO VERDE 2	47	50	40	38	36	58	:	21	22	17	17	16	25
PALO VERDE 3	44	40	34	42	46	39	:	19	17	15	18	20	17
LIMERICK 2	213	0	207	219	0	199	:	39	0	38	40	0	36
SEABROOK 1	48	52	41	30	34	56	:	20	22	17	13	14	24
SALEM 2	43	67	0	50	56	0	:	20	31	0	23	26	0
SUMMER 1	25	0	61	39	38	43	:	11	0	28	18	17	20
CRYSTAL RVR 3	0	50	45	0	0	0	:	0	23	21	0	0	0
RVR BEND 1	112	120	95	88	83	143	:	20	22	17	16	15	25
WATERFORD 3	43	44	40	41	0	53	:	18	19	17	18	0	23
HOPE CRK 1	203	168	0	154	189	0	:	37	31	0	28	34	0
BELLEFONTE 1	73	59	0	55	66	0	:	33	27	0	25	30	0
SEABROOK-2	41	48	49	49	40	51	:	17	20	21	21	17	22
BELLEFONTE 2	67	0	60	65	0	58	:	31	0	27	30	0	26
COMANCHE PK 1&2	99	102	84	71	73	118	:	40	41	34	29	29	48
MCGUIRE 1	32	54	52	32	44	0	:	14	23	22	14	19	0
NINE MILE PT2	0	214	0	150	188	0	:	0	38	0	27	34	0
CALLAWAY 1	0	74	66	0	49	57	:	0	31	28	0	21	24
MCGUIRE 2	24	0	50	37	35	40	:	10	0	21	16	15	17
DIABLO CNYN 2	16	0	41	29	50	36	:	7	0	19	13	23	17
TROJAN	10	0	0	0	0	0	:	5	0	0	0	0	0
FARLEY 2		5	0	0	0	0	:		2	0	0	0	0
B VALLEY 2		29	0	36	52	0	:		13	0	17	24	0
DIABLO CNYN 1		12	51	0	29	48	:		6	23	0	13	22
CARROLL COUNTY-1&2			32	82	66	84	:			14	35	28	36

TABLE A.5. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	Assemblies						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
GRAND GULF 2				73	136	171	:			13	25	31
GRAND GULF 1					111	173	:				20	30
WOLF CRK 1						15	:					7
SHOREHAM						77	:					14
							:					
PWR TOTALS	1282	1827	1520	1320	1281	1528	:	555	804	668	580	553
							:					
BWR TOTALS	1284	2205	1890	1342	1939	1814	:	233	398	308	243	350
							:					
TOTAL	2546	4032	3210	2662	3200	3340	:	787	1201	973	822	903

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements

POOL	ASSEMBLIES									MTIHM								
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1986	1987	1988	1989	1990	1991	1992	1993	1994
WILLSTONE 2	38	38	95	149	149	208	241	241	287	15	15	39	60	60	84	98	98	116
SURRY 1&2	15	15	59	144	188	247	312	369	408	7	7	27	66	86	113	143	169	186
WILLSTONE 1		26	26	150	150	332	332	527	639		5	5	27	27	59	59	94	114
PALISADES			37	37	37	104	137	137	177			14	14	14	41	53	53	69
OCONEE 1&2			1	45	90	147	185	315	354				21	42	68	86	146	164
ST LUCIE 1			61	61	116	205	205	282	344			18	18	39	65	65	94	113
PEACHBOTTOM 2			65	232	232	458	590	590	736			12	42	42	84	108	108	135
PEACHBOTTOM 3					127	127	259	498	498					23	23	47	91	91
ROBINSON 2						9	38	87	87						4	16	37	37
LASALLE CTY 1&2						319	447	660	937						58	81	120	171
BRUNSWICK 2							62	233	233							12	44	44
PRAIRIE ISL 1&2							3	41	65							1	14	22
PILGRIM 1								148	148								26	26
CALVERT CLF 1&2									84									33
LACROSSE									6									1
OCONEE 3									24									11
FITZPATRICK									49									9
PWR TOTAL	53	53	253	436	580	920	1121	1472	1828	22	22	99	180	242	376	463	612	753
BWR TOTAL		26	91	382	509	1236	1690	2656	3246		5	16	69	92	224	308	483	590
TOTAL	53	79	344	818	1089	2156	2811	4128	5074	22	27	116	249	334	600	771	1094	1343

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
WILLSTONE 2	338	336	405	454	454	512	547	547	585	646	137	137	164	164	184	206	222	222	237	262
SURRY 1&2	508	543	607	679	720	777	848	911	947	1041	233	249	279	312	330	357	389	418	435	478
WILLSTONE 1	639	749	749	870	870	1038	1038	1248	1353	1353	114	133	133	155	155	184	184	221	240	240
PALISADES	241	275	275	318	361	361	395	461	461	514	94	107	107	123	141	141	154	179	179	200
DCONEE 1&2	411	488	556	596	641	707	745	877	915	967	191	226	258	276	297	328	345	407	424	448
ST LUCIE 1	413	413	509	561	561	642	694	894	758	821	139	139	168	188	188	213	232	232	252	276
PEACHBOTTOM 2	936	936	1183	1327	1327	1547	1690	1690	1835	2023	172	172	218	245	245	286	312	312	339	374
PEACHBOTTOM 3	704	847	847	995	1170	1170	1312	1570	1570	1760	128	155	155	182	214	214	239	287	287	321
ROBINSON 2	129	159	213	244	244	292	323	378	406	406	55	68	92	105	105	128	139	162	175	175
LASALLE CTY 1&2	1127	1253	1713	1846	2002	2417	2549	2779	3037	3213	205	228	312	336	365	440	464	506	553	585
BRUNSWICK 2	381	482	482	588	715	715	808	991	991	1132	71	90	90	110	134	134	151	185	185	212
PRAIRIE ISL 1&2	130	180	262	312	340	415	440	522	572	834	45	63	91	109	118	144	153	182	200	221
PILGRIM 1	305	411	411	526	526	706	706	901	901	1055	54	73	73	93	93	125	125	160	160	187
CALVERT CLF 1&2	142	190	338	386	439	573	623	699	797	856	56	75	133	152	172	225	245	275	313	336
LACROSSE	26	39	64	78	95	116	129	153	166	166	3	4	7	8	10	13	14	17	18	18
DCONEE 3	80	80	152	152	199	199	237	309	309	363	37	37	70	70	92	92	110	143	143	168
FITZPATRICK	192	192	367	474	474	634	742	742	848	985	35	35	66	66	85	114	133	133	152	177
BRUNSWICK 1	103	103	287	394	394	560	653	653	751	892	19	19	54	74	74	105	122	122	140	167
INDIAN PT 3	2	2	81	136	136	204	204	293	336	336	1	1	37	62	62	93	93	134	153	153
BYRON 1&2		26	122	211	281	378	437	545	605	693		11	52	89	119	160	185	230	256	293
COOPER STN		64	182	251	331	436	564	623	691	778		12	33	46	60	79	92	114	126	142
FORT CALHOUN		12	53	53	92	137	137	178	203	203		4	19	19	33	49	49	64	73	73
DAVIS-BESSE 1		25	25	65	113	113	150	221	221	274		12	12	30	53	53	70	103	103	128
BIG ROCK 1			6	20	37	55	70	70	70	70			1	3	5	7	9	9	9	9
POINT BEACH 1&2			39	83	128	186	230	299	343	395			14	29	45	66	82	106	122	140
ARK NUCLEAR 1				40	40	103	103	174	174	228				19	19	48	48	81	81	106
BRAIDWOOD 1&2				80	151	248	308	416	476	563				34	64	105	130	176	201	238
INDIAN PT 2				35	86	86	127	201	201	258				16	39	39	58	92	92	118
ENRICO FERMI2				224	224	473	473	744	902	902				41	41	86	86	135	164	164
B VALLEY 1				4	57	57	94	172	172	231				2	26	26	43	79	79	106
OYSTER CRK 1				41	41	197	303	303	401	401				7	7	35	54	54	71	71
SEQUOYAH 1&2				1	58	205	253	334	431	493					27	94	116	153	198	226
ZION 1&2					39	129	185	287	341	417					18	69	85	131	156	191
MAINE YANKEE					19	85	85	159	202	202					7	32	32	60	76	76
BROWNS FERRY2					81	81	243	243	401	401					15	15	44	44	73	73
COOK 1&2						91	139	230	334	399						37	59	96	140	170
WILLSTONE 3						14	51	51	90	133						6	24	24	42	61
SAN ONOFRE 1,2, &3						147	263	263	381	451						55	104	104	154	184
WASH NUCLEAR2							51	216	307	435							9	38	54	77
ARK NUCLEAR 2								34	34	90								14	14	37
PERRY 1&2								372	372	810								68	68	148
DRESDEN 2								111	111	264								20	20	47
HADDAM NECK								36	64	64								15	26	26
DUANE ARNOLD								44	109	109								8	20	20
NINE MILE PT1								86	86	244								15	15	43
BROWNS FERRY1								119	119	342								22	22	62
WATTS BAR 1&2								90	137	198								41	63	91

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM										
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	:	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
VT YANKEE 1								43	93	164	:								8	17	30
NORTH ANNA 1&2								113	151	205	:								52	70	95
KENNAUNEE								26	49	79	:								10	19	30
ST LUCIE 2										24	:										9
LIMERICK 1										192	:										35
SALEM 1										8	:										4
											:										
PWR TOTAL	2394		3637		5159		7618		10695		:	988		1495		2139		3167		4477	
		2731		4408		6861		9518		12192	:		1129		1819		2755		3985		5121
											:										
BWR TOTAL	4413		6291		8287		11271		15114		:	801		1141		1501		2039		2733	
		5076		7634		10147		13699		17691	:		920		1384		1836		2477		3201
											:										
TOTAL	6807		9928		13446		18889		25809		:	1789		2637		3641		5208		7210	
		7807		12042		16808		23217		29883	:		2049		3203		4591		6462		8322

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
MILLSTONE 2	646	691	730	730	788	828	828	879	925	977	282	280	296	296	320	336	336	357	375	396
SURRY 1&2	1079	1124	1197	1232	1389	1389	1389	1389	1389	1389	495	516	549	565	638	638	638	638	638	638
MILLSTONE 1	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	261	261	261	261	261	261	261	261	261	261
PALISADES	554	554	603	603	603	603	603	603	603	603	216	216	235	235	235	235	235	235	235	235
OCONEE 1&2	1013	1061	1140	1177	1354	1354	1354	1354	1354	1354	470	492	529	546	628	628	628	628	628	628
ST LUCIE 1	821	887	938	938	1011	1062	1062	1130	1187	1187	276	297	316	316	339	358	358	380	401	401
PEACHBOTTOM 2	2023	2199	2344	2344	2546	2546	2546	2546	2546	2546	374	406	433	433	470	470	470	470	470	470
PEACHBOTTOM 3	1924	1924	2068	2207	2207	2343	2593	2593	2593	2593	351	351	377	403	403	428	473	473	473	473
ROBINSON 2	439	477	477	477	477	477	477	477	477	477	189	205	205	205	205	205	205	205	205	205
LASALLE CTY 1&2	3359	3685	3817	3946	4319	4446	4678	5033	5194	5353	612	671	695	719	787	810	852	917	946	975
BRUNSWICK 2	1249	1249	1353	1444	1444	1533	1710	1710	1839	1966	234	234	253	270	270	287	320	320	344	368
PRAIRIE ISL 1&2	687	716	765	789	942	942	942	942	942	942	240	249	266	275	330	330	330	330	330	330
PILGRIM 1	1182	1182	1293	1293	1293	1293	1293	1293	1293	1293	209	209	229	229	229	229	229	229	229	229
CALVERT CLF 1&2	904	1011	1059	1107	1228	1278	1352	1454	1508	1725	355	397	416	435	482	501	531	571	592	647
LACROSSE	166	166	166	166	166	166	166	166	166	166	18	18	18	18	18	18	18	18	18	18
OCONEE 3	408	408	448	448	506	506	506	506	506	506	189	189	208	208	235	235	235	235	235	235
FITZPATRICK	985	1111	1216	1216	1361	1465	1465	1607	1734	1859	177	200	219	219	245	263	263	289	312	334
BRUNSWICK 1	892	1024	1129	1129	1281	1370	1370	1515	1650	1782	167	191	211	211	240	256	256	283	309	333
INDIAN PT 3	391	391	446	496	496	545	545	604	658	658	178	178	203	226	226	249	249	275	300	300
BYRON 1&2	781	845	925	983	1068	1132	1203	1304	1398	1454	330	357	391	416	452	479	509	551	591	615
COOPER STN	778	778	778	778	778	778	778	778	778	778	142	142	142	142	142	142	142	142	142	142
FORT CALHOUN	241	281	281	311	311	311	311	311	311	311	87	101	101	112	112	112	112	112	112	112
DAVIS-BESSE 1	318	318	357	394	394	430	499	499	549	598	149	149	167	184	184	201	234	234	257	280
BIG ROCK 1	70	70	70	70	70	70	70	70	70	70	9	9	9	9	9	9	9	9	9	9
POINT BEACH 1&2	437	484	626	626	626	626	626	626	626	626	155	172	222	222	222	222	222	222	222	222
ARK NUCLEAR 1	273	273	314	314	371	371	371	371	371	371	127	127	146	146	172	172	172	172	172	172
BRAIDWOOD 1&2	652	715	795	855	941	1005	1078	1179	1275	1335	276	302	336	361	398	425	456	498	539	564
INDIAN PT 2	306	306	348	389	389	389	389	389	389	389	140	140	160	179	179	179	179	179	179	179
ENRICO FERMI2	1126	1126	1330	1330	1554	1701	1701	1960	1960	2112	205	205	242	242	283	310	310	357	357	384
B VALLEY 1	279	279	322	358	358	394	469	469	522	574	129	129	148	165	165	182	216	216	241	265
OYSTER CRK 1	525	525	525	525	525	525	525	525	525	525	93	93	93	93	93	93	93	93	93	93
SEQUOYAH 1&2	545	603	650	745	812	858	1020	1083	1143	1201	250	277	298	342	373	394	468	497	525	551
ZION 1&2	482	554	609	663	896	896	896	896	896	896	220	253	278	303	410	410	410	410	410	410
MAINE YANKEE	248	300	300	300	300	300	300	300	300	300	93	112	112	112	112	112	112	112	112	112
BROWNS FERRY2	585	585	750	750	986	986	986	1221	1221	1437	106	106	136	136	179	179	179	222	222	261
COOK 1&2	456	516	623	678	745	801	971	1032	1098	1291	193	221	267	289	320	343	416	444	471	554
MILLSTONE 3	185	222	267	304	365	400	400	458	512	545	85	102	123	140	168	185	185	211	236	252
SAN ONOFRE 1,2,3	511	577	639	696	771	829	922	995	1062	1128	210	238	265	289	321	346	385	417	445	473
WASH NUCLEAR2	540	657	751	842	976	1064	1227	1355	1471	1586	95	116	132	148	172	187	216	239	259	279
ARK NUCLEAR 2	139	139	188	188	248	248	324	383	383	383	58	58	78	78	103	103	135	160	160	160
PERRY 1&2	1225	1225	1604	1890	1890	2191	2594	2594	3065	3423	219	219	288	340	340	395	469	469	555	620
DRESDEN 2	392	392	392	392	392	392	392	392	392	392	70	70	70	70	70	70	70	70	70	70
HADDAM NECK	99	139	139	139	139	139	139	139	139	139	41	57	57	57	57	57	57	57	57	57

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										WTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
DUANE ARNOLD	186	273	273	338	437	437	561	855	655	741	34	50	50	62	80	80	102	120	120	135
NINE MILE PT1	244	392	392	392	392	392	392	392	392	392	43	69	69	69	69	69	69	69	69	69
BROWNS FERRY1	342	548	548	706	706	706	706	706	706	706	62	99	99	128	128	128	128	128	128	128
WATTS BAR 1&2	310	363	418	513	513	604	653	724	837	910	142	167	192	236	236	277	300	332	384	418
VT YANKEE 1	224	291	344	344	344	344	344	344	344	344	41	53	63	63	63	63	63	63	63	63
NORTH ANNA 1&2	295	344	385	461	519	557	701	774	836	943	136	159	178	213	239	257	323	357	386	435
KEWAUNEE	104	132	154	177	208	208	208	208	208	208	40	51	59	68	80	80	80	80	80	80
ST LUCIE 2	78	78	130	182	182	232	311	311	370	428	30	30	49	69	69	88	118	118	140	162
LIMERICK 1	192	337	501	501	669	807	807	1012	1121	1121	35	62	91	91	122	147	147	185	205	205
SALEM 1	57	57	103	149	149	194	270	270	325	379	26	26	47	68	68	89	124	124	149	174
BROWNS FERRY3	60	60	224	224	462	462	750	750	957	957	11	11	41	41	84	84	136	136	174	174
DRESDEN 3		71	164	164	164	164	164	164	164	164		13	30	30	30	30	30	30	30	30
HATCH 1&2		127	280	410	627	767	1019	1223	1416	1976		23	51	75	114	138	186	223	258	360
VOGTLE 1&2		36	134	202	324	388	477	607	675	793		17	62	93	149	179	220	280	311	366
SUSQUEHANNA 1&2		136	415	550	752	1016	1255	1450	1795	1970		24	73	97	132	179	221	255	316	346
GINNA		9	9	9	9	9	9	9	9	9		3	3	3	3	3	3	3	3	3
RANCHO SECO 1		2	41	72	72	109	169	169	215	215		1	19	33	33	50	78	78	99	99
TURKEY PT 1&2			30	219	219	219	219	219	219	219			14	101	101	101	101	101	101	101
CLINTON 1			37	153	153	272	416	416	594	790			7	28	28	50	76	78	109	144
WNP-1			21	56	107	142	196	266	323	373			10	26	49	65	89	121	147	170
WNP-3			46	79	132	164	219	290	348	401			20	34	57	71	95	125	150	173
PALO VERDE 1				22	72	109	149	207	262	296				10	31	48	65	90	114	129
PALO VERDE 2					14	51	91	149	204	239					6	22	40	65	89	104
PALO VERDE 3					9	44	88	149	183	242					4	19	38	65	80	106
QUAD CITIES 1&2					430	430	430	430	430	430					76	76	76	76	76	76
LIMERICK 2					42	42	333	552	552	732					8	8	61	100	100	133
SEABROOK 1					21	58	98	154	207	240					9	25	41	65	86	102
SALEM 2					37	83	83	144	199	199					17	38	38	66	91	91
SUMMER 1						20	20	77	122	175						9	9	35	56	80
CRYSTAL RVR 3							9	9	49	89							4	4	23	41
FARLEY 1								35	35	35								16	16	16
RVR BEND 1								118	240	317								22	44	58
WATERFORD 3								42	42	124								18	18	53
HOPE CRK 1								184	325	325								33	59	59
BELLEVILLE 1								16	65	65								7	30	30
SEABROOK-2									30	80									13	34
BELLEVILLE 2									49	49									22	22
COMANCHE PK 1&2									36	107									15	43
MCGUIRE 1										10										4
NINE MILE PT2										90										16
CALLAWAY 1										37										16

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	:	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
											:										
PWR TOTAL	13738		16857		20115		22946		26371		:	5786		7026		8537		9777		11271	
		14892		18081		21302		24601		28224	:		6267		7655		9054		10498		12043
											:										
BWR TOTAL	19739		24235		28436		32741		37658		:	3568		4384		5145		5926		6818	
		21603		25574		30168		35224		40406	:		3906		4627		5459		6376		7317
											:										
TOTAL	33477		40891		48551		55687		64029		:	9354		11410		13681		15702		18089	
		36495		43655		51470		59825		68630	:		10174		12282		14513		16873		19361

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
MILLSTONE 2	977	977	977	977	977	977	398	398	398	398	398	398
SURRY 1&2	1389	1389	1389	1389	1389	1389	638	638	638	638	638	638
MILLSTONE 1	1470	1470	1470	1470	1470	1470	261	261	261	261	261	261
PALISADES	603	603	603	603	603	603	235	235	235	235	235	235
OCONEE 1&2	1354	1354	1354	1354	1354	1354	628	628	628	628	628	628
ST LUCIE 1	1187	1187	1187	1187	1187	1187	401	401	401	401	401	401
PEACHBOTTOM 2	2546	2546	2546	2546	2546	2546	470	470	470	470	470	470
PEACHBOTTOM 3	2593	2593	2593	2593	2593	2593	473	473	473	473	473	473
ROBINSON 2	477	477	477	477	477	477	205	205	205	205	205	205
LASALLE CTY 1&2	5587	5782	5966	6249	6373	6563	1018	1053	1087	1138	1161	1195
BRUNSWICK 2	1966	1966	1966	1966	1966	1966	368	368	368	368	368	368
PRAIRIE ISL 1&2	942	942	942	942	942	942	350	330	330	330	330	330
PILGRIM 1	1293	1293	1293	1293	1293	1293	229	229	229	229	229	229
CALVERT CLF 1&2	1725	1725	1725	1725	1725	1725	647	647	647	647	647	647
LACROSSE	166	166	166	166	166	166	18	18	18	18	18	18
OCONEE 3	506	506	506	506	506	506	235	235	235	235	235	235
FITZPATRICK	1659	1859	1859	1859	1859	1859	334	334	334	334	334	334
BRUNSWICK 1	1782	1782	1782	1782	1782	1782	333	333	333	333	333	333
INDIAN PT 3	658	720	720	720	720	720	300	328	328	328	328	328
BYRON 1&2	1539	1628	1699	1758	1820	1922	651	688	718	743	770	813
COOPER STN	778	778	778	778	778	778	142	142	142	142	142	142
FORT CALHOUN	311	311	311	311	311	311	112	112	112	112	112	112
DAVIS-BESSE 1	598	658	714	714	714	714	230	308	334	334	334	334
BIG ROCK 1	70	70	70	70	70	70	9	9	9	9	9	9
POINT BEACH 1&2	626	626	626	626	626	626	222	222	222	222	222	222
ARK NUCLEAR 1	371	371	371	371	371	371	172	172	172	172	172	172
BRAIDWOOD 1&2	1420	1509	1581	1645	1705	1809	600	638	668	696	721	765
INDIAN PT 2	389	389	389	389	389	389	179	179	179	179	179	179
ENRICO FERMI2	2112	2345	2495	2495	2650	2650	384	427	454	454	482	482
B VALLEY 1	574	574	574	574	574	574	265	265	265	265	265	265
OYSTER CRK 1	525	525	525	525	525	525	93	93	93	93	93	93
SEQUOYAH 1&2	1243	1381	1426	1477	1567	1567	571	634	655	678	719	719
ZION 1&2	896	896	896	896	896	896	410	410	410	410	410	410
MAINE YANKEE	300	300	300	300	300	300	112	112	112	112	112	112
BROWNS FERRY2	1437	1437	1437	1437	1437	1437	261	261	261	261	261	261
COOK 1&2	1291	1291	1291	1291	1291	1291	554	554	554	554	554	554
MILLSTONE 3	588	628	666	666	700	757	271	290	307	307	323	349
SAN ONOFRE 1,2,3	1185	1305	1305	1436	1436	1577	498	549	549	605	605	665
WASH NUCLEAR2	1671	1812	1945	2045	2137	2247	294	319	343	360	376	396
ARK NUCLEAR 2	383	383	383	383	383	383	160	160	160	160	160	160
PERRY 1&2	3423	3842	4223	4223	4542	4994	620	696	766	766	824	906
DRESDEN 2	392	392	392	392	392	392	70	70	70	70	70	70
HADDAM NECK	139	139	139	139	139	139	57	57	57	57	57	57
DUANE ARNOLD	741	741	741	741	741	741	135	135	135	135	135	135
NINE MILE PT1	392	392	392	392	392	392	69	69	69	69	69	69

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
BROWNS FERRY1	706	706	706	706	706	706	128	128	128	128	128	128
WATTS BAR 1&2	971	1083	1083	1182	1228	1295	448	497	497	543	583	595
VT YANKEE 1	344	344	344	344	344	344	63	63	63	63	63	63
NORTH ANNA 1&2	998	1061	1218	1218	1218	1218	460	490	562	562	562	562
KEWAUNEE	208	208	208	208	208	208	80	80	80	80	80	80
ST LUCIE 2	428	499	585	585	613	669	182	189	214	214	233	254
LIMERICK 1	1289	1424	1424	1549	1703	1703	235	260	260	283	311	311
SALEM 1	379	447	511	511	511	511	174	205	235	235	235	235
BROWNS FERRY3	1102	1102	1336	1336	1336	1336	200	200	243	243	243	243
DRESDEN 3	164	164	164	164	164	164	30	30	30	30	30	30
HATCH 1&2	1976	1976	1976	1976	1976	1976	360	360	360	360	360	360
VOGTLE 1&2	882	982	1026	1110	1201	1280	407	444	473	512	554	591
SUSQUEHANNA 1&2	2094	2515	2709	2859	3131	3300	368	442	476	503	550	580
GINNA	9	9	9	9	9	9	3	3	3	3	3	3
RANCHO SECO 1	215	215	215	215	215	215	99	99	99	99	99	99
TURKEY PT 1&2	219	219	219	219	219	219	101	101	101	101	101	101
CLINTON 1	790	949	1061	1061	1177	1307	144	173	194	194	215	239
WNP-1	414	482	511	580	600	651	189	211	233	255	274	297
WNP-3	444	494	545	596	638	691	192	213	235	257	275	298
PALO VERDE 1	345	396	437	473	509	567	151	173	191	206	222	247
PALO VERDE 2	288	336	376	414	450	508	125	147	164	181	198	222
PALO VERDE 3	288	326	360	402	448	487	125	142	157	175	195	212
QUAD CITIES 1&2	430	430	430	430	430	430	76	76	76	76	76	76
LIMERICK 2	945	945	1152	1371	1371	1570	172	172	210	249	249	286
SEABROOK 1	288	340	381	411	445	501	122	144	161	174	188	212
SALEM 2	242	309	309	359	415	415	111	142	142	185	191	191
SUMMER 1	200	200	261	300	338	381	92	92	120	138	155	175
CRYSTAL RVR 3	89	139	184	184	184	184	41	64	85	85	85	85
FARLEY 1	35	35	35	35	35	35	16	16	16	16	16	16
RVR BEND 1	429	549	644	732	815	958	78	100	117	133	149	173
WATERFORD 3	167	211	251	292	292	345	71	90	107	125	125	147
HOPE CRK 1	528	696	696	850	1039	1039	96	127	127	155	189	189
BELLEFONTE 1	138	197	197	252	318	318	63	90	90	115	145	145
SEABROOK-2	121	189	218	267	307	358	51	72	92	113	130	152
BELLEFONTE 2	116	116	176	241	241	299	53	53	80	110	110	136
COMANCHE PK 1&2	206	308	392	463	536	654	83	124	158	187	216	264
MCGUIRE 1	42	96	148	180	224	224	18	41	63	76	95	95
NINE MILE PT2	90	304	304	454	642	642	16	55	55	81	115	115
CALLAWAY 1	37	111	177	177	228	283	16	47	75	75	96	120
MCGUIRE 2	24	24	74	111	146	186	10	10	31	47	62	79
DIABLO CNYN 2	16	16	57	86	136	172	7	7	26	39	62	79
TROJAN	10	10	10	10	10	10	5	5	5	5	5	5
FARLEY 2		5	5	5	5	5		2	2	2	2	2

TABLE A.6. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
B VALLEY 2		29	29	65	117	117		13	13	30	54	54
DIABLO CNYN 1		12	63	63	92	140		6	29	29	42	64
CARROLL COUNTY-1&2			32	114	180	264		14	48	76	112	
GRAND GULF 2				73	209	380			13	38	70	
GRAND GULF 1					111	284					20	50
WOLF CRK 1						15						7
SHOREHAM						77						14
PWR TOTAL	29486		32833		35414		12598		14070		15203	
		31313		34153		36940		13402		14649		15863
BWR TOTAL	41690		45585		48866		7550		8253		8846	
		43895		46927		50680		7947		8496		9172
TOTAL	71176		78418		84280		20148		22323		24048	
		75208		81080		87620		21349		23145		25035

TABLE A.7. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Annual Storage Requirements

POOL	Assemblies								MTIHM							
	1987	1988	1989	1990	1991	1992	1993	1994	1987	1988	1989	1990	1991	1992	1993	1994
MILLSTONE 1	28	0	124	0	182	0	195	112	5	0	22	0	32	0	34	20
PALISADES		37	0	0	87	33	0	40	14	0	0	26	13	0	16	
PRAIRIE ISL 1&2						3	38	24					1	13	9	
PILGRIM 1							148	0							28	0
BRUNSWICK 2							78	0							15	0
BRUNSWICK 1								110								21
CALVERT CLF 1&2								84								33
LACROSSE								8								1
FITZPATRICK								49								9
TOTAL PWR		37	0	0	87	36	38	148	14	0	0	26	14	13	57	
TOTAL BWR	28	0	124	0	182	0	421	277	5	0	22	0	32	0	75	50
TOTAL	28	37	124	0	249	36	459	425	5	14	22	0	58	14	88	107

TABLE A.7. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Annual Storage Requirements (contd)

POOL	Assemblies										MTIHM										
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MILLSTONE 1		110	0	121	0	168	0	208	107	0	0	20	0	21	0	30	0	37	19	0	
PALISADES	64	34	0	41	45	0	34	66	0	53	25	13	0	16	18	0	13	26	0	21	
PRAIRIE ISL 1&2	65	50	82	50	28	75	25	82	50	62	23	17	29	17	9	26	9	29	17	22	
PILGRIM 1	157	106	0	115	0	180	0	195	0	154	28	19	0	20	0	32	0	35	0	27	
BRUNSWICK 2	148	101	0	106	127	0	93	183	0	141	28	19	0	20	24	0	17	34	0	26	
BRUNSWICK 1	148	0	184	107	0	166	93	0	98	141	28	0	34	20	0	31	17	0	18	26	
CALVERT CLF 1&2	58	48	148	48	53	134	50	76	98	59	23	19	58	19	21	53	20	30	38	23	
LACROSSE	20	13	25	14	17	23	11	24	13	0	2	1	3	2	2	3	1	3	1	0	
FITZPATRICK	143	0	175	107	0	160	108	0	106	137	26	0	31	19	0	29	19	0	19	25	
INDIAN PT 3	2	0	79	55	0	68	0	89	43	0	1	0	36	25	0	31	0	41	20	0	
SURRY 1&2	31	35	64	72	41	57	71	83	36	94	14	16	29	33	19	26	33	29	17	43	
NORTH ANNA 1&2	57	77	71	42	97	62	39	145	38	54	26	36	33	19	45	29	18	67	18	25	
COOPER STN		64	118	69	80	105	68	119	68	87	0	12	22	13	15	19	12	22	12	16	
MILLSTONE 3		14	51	52	37	65	37	0	39	43	0	6	24	24	17	30	17	0	18	20	
HADDAM NECK				30	37	47	0	55	28	0				12	15	19	0	22	12	0	
MILLSTONE 2			67	49	0	58	35	0	38	61			27	20	0	24	14	0	15	25	
FORT CALHOUN		12	41	0	39	45	0	41	25	0	0	4	15	0	14	16	0	15	9	0	
DAVIS-BESSE 1		25	0	40	48	0	37	71	0	53	0	12	0	19	22	0	17	33	0	25	
BRAIDWOOD 1&2			27	89	71	97	0	0	0	0			11	38	30	41	0	0	0	0	
ZION 1&2				58	67	90	0	0	0	0				27	31	41	0	0	0	0	
BYRON 1&2				89	70	97	0	0	0	0				38	30	41	0	0	0	0	
BIG ROCK 1			6	14	17	18	15	0	0	0			1	2	2	2	2	0	0	0	
POINT BEACH 1&2			39	44	45	58	44	69	44	52			14	16	16	21	16	24	16	18	
ENRICO FERMI2				224	0	249	0	271	158	0				41	0	45	0	49	29	0	
OYSTER CRK 1				41	0	156	106	0	98	0				7	0	28	19	0	17	0	
PEACHBOTTOM 3				114	175	0	142	258	0	190				21	32	0	26	47	0	35	
PEACHBOTTOM 2						220	143	0	145	188						41	26	0	27	35	
LIMERICK 1				152	0	188	143	0	137	202				28	0	34	26	0	25	37	
LIMERICK 2					272	244	0	155	193	0					50	44	0	28	35	0	
MAINE YANKEE					19	66	0	74	43	0					7	25	0	28	16	0	
ARK NUCLEAR 2						62	0	75	0	56						26	0	31	0	23	
ARK NUCLEAR 1								71	0	54								33	0	25	
TURKEY PT 1&2						45	66	53	33	82						21	30	24	15	38	
ST LUCIE 1						81	52	0	64	63						25	19	0	20	23	
ST LUCIE 2							52	84	0	63							20	32	0	24	
COOK 1&2						91	48	91	104	65						37	22	37	45	30	
SAN ONOFRE 1,2,&3						147	116	0	118	70						55	50	0	50	30	
INDIAN PT 2							7	74	0	57								3	34	0	26
WASH NUCLEAR2							51	165	91	128								9	29	16	23
PERRY 1&2								372	0	438									68	0	80
DUANE ARNOLD								44	65	0									8	12	0
BROWNS FERRY1								76	0	223									14	0	40
BROWNS FERRY2									158	0									29	0	
BROWNS FERRY3									161	0									29	0	
VT YANKEE 1								43	50	71									8	9	13
KEWAUNEE								26	23	30									10	9	12
BELLEFONTE 2										21											10

TABLE A.7. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Annual Storage Requirements (contd)

POOL	Assemblies										MTIHW									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
PWR TOTAL	277	295	669	759	697	1445	713	1305	824	1092	112	124	276	322	293	585	301	544	335	461
BWR TOTAL	616	394	508	1184	688	1877	973	2113	1648	2100	111	70	91	213	124	338	176	381	298	383
TOTAL	893	689	1177	1943	1385	3322	1686	3418	2472	3192	223	194	367	535	417	923	477	926	633	844

TABLE A.7. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Annual Storage Requirements (contd)

POOL	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
WILLSTONE 1	117	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0
PALISADES	40	0	49	0	0	0	0	0	0	0	13	0	19	0	0	0	0	0	0	0
PRAIRIE ISL 1&2	53	29	49	24	153	0	0	0	0	0	13	10	17	9	55	0	0	0	0	0
PILGRIM 1	127	0	111	0	0	0	0	0	0	0	22	0	20	0	0	0	0	0	0	0
BRUNSWICK 2	117	0	104	91	0	89	177	0	129	127	22	0	19	17	0	17	33	0	24	24
BRUNSWICK 1		132	105	0	152	89	0	145	135	132	0	25	20	0	28	17	0	27	25	25
CALVERT CLF 1&2	48	107	48	48	121	48	76	102	54	217	19	42	19	19	48	19	30	40	21	54
FITZPATRICK		126	105	0	145	104	0	142	127	125	0	23	19	0	26	19	0	26	23	22
INDIAN PT 3	55	0	55	50	0	49	0	59	54	0	25	0	25	23	0	22	0	27	25	0
SURRY 1&2	38	45	73	35	157	0	0	0	0	0	17	21	34	16	72	0	0	0	0	0
NORTH ANNA 1&2		49	41	76	58	38	144	73	82	107	42	23	19	35	27	18	66	34	29	49
WILLSTONE 3	52	37	45	37	61	35	0	58	54	33	24	17	21	17	28	16	0	27	25	15
HADDAM NECK	35	40	0	0	0	0	0	0	0	0	14	16	0	0	0	0	0	0	0	0
WILLSTONE 2		45	39	0	58	40	0	51	46	52	0	18	16	0	24	16	0	21	19	21
FORT CALHOUN	38	40	0	30	0	0	0	0	0	0	14	14	0	11	0	0	0	0	0	0
DAVIS-BESSE 1	44	0	39	37	0	36	69	0	50	49	21	0	18	17	0	17	32	0	23	23
BRAIDWOOD 1&2	89	63	80	60	86	64	73	101	96	60	38	27	34	25	36	27	31	43	41	25
CARROLL COUNTY-1&2		72	76	58	84	0	88	112	92	82	0	30	32	25	36	0	37	47	39	35
ZION 1&2	63	72	55	54	233	58	0	0	0	0	29	33	25	25	107	27	0	0	0	0
BYRON 1&2	88	64	80	58	85	84	71	101	94	56	37	27	34	25	36	27	30	43	40	24
POINT BEACH 1&2	42	47	142	0	0	0	0	0	0	0	15	17	50	0	0	0	0	0	0	0
ENRICO FERMI2	224	0	204	0	224	147	0	259	0	152	41	0	37	0	41	27	0	47	0	28
OYSTER CRK 1	124	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0
PEACHBOTTOM 3	164	0	144	139	0	136	250	0	0	0	30	0	26	25	0	25	46	0	0	0
PEACHBOTTOM 2		176	145	0	202	0	0	0	0	0	0	33	27	0	37	0	0	0	0	0
LIMERICK 1		145	164	0	168	138	0	205	109	0	0	26	30	0	31	25	0	37	20	0
LIMERICK 2	176	154	0	207	219	0	291	219	0	180	32	28	0	38	40	0	53	40	0	33
MAINE YANKEE	46	52	0	0	0	0	0	0	0	0	17	20	0	0	0	0	0	0	0	0
ARK NUCLEAR 2	49	0	49	0	60	0	76	59	0	0	20	0	20	0	25	0	32	25	0	0
ARK NUCLEAR 1	45	0	41	0	57	0	0	0	0	0	21	0	19	0	26	0	0	0	0	0
TURKEY PT 1&2	34	39	64	189	0	0	0	0	0	0	16	18	29	87	0	0	0	0	0	0
ST LUCIE 1		66	51	0	73	51	0	68	57	0	0	21	19	0	23	19	0	22	21	0
ST LUCIE 2	54	0	52	52	0	50	79	0	59	58	20	0	20	20	0	19	30	0	22	22
COOK 1&2	57	60	107	55	67	56	170	61	66	193	23	28	46	22	31	23	73	28	27	83
SAN ONOFRE 1,2,3	60	66	62	57	75	58	93	73	67	66	26	28	26	24	32	25	40	31	29	28
INDIAN PT 2	48	0	42	41	0	0	0	0	0	0	22	0	19	19	0	0	0	0	0	0
WASH NUCLEAR2	105	117	94	91	134	88	163	128	116	115	18	21	17	16	24	15	29	23	20	20
PERRY 1&2	415	0	379	286	0	301	403	0	471	358	72	0	69	52	0	55	73	0	86	65
DUANE ARNOLD	77	87	0	65	99	0	124	94	0	86	14	16	0	12	18	0	23	17	0	16
BROWNS FERRY1		206	0	158	0	0	0	0	0	0	0	37	0	29	0	0	0	0	0	0
BROWNS FERRY2	184	0	165	0	236	0	0	235	0	216	33	0	30	0	43	0	0	43	0	39
BROWNS FERRY3	185	0	164	0	238	0	288	0	207	0	34	0	30	0	43	0	52	0	38	0

TABLE A.7. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Annual Storage Requirements (contd)

POOL	Assemblies										WTIHW									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
VT YANKEE 1	60	67	53	0	0	0	0	0	0	0	11	12	10	0	0	0	0	0	0	0
Kewaunee	25	28	22	23	31	0	0	0	0	0	10	11	8	9	12	0	0	0	0	0
Bellefonte 2		67	69	0	94	46	0	99	49	0	0	31	31	0	43	21	0	45	22	0
Sequoyah 1&2	52	58	47	95	67	46	162	63	60	58	24	27	22	44	31	21	74	29	28	27
Watts Bar 1&2	112	53	55	95	0	91	49	71	113	73	51	24	25	44	0	42	22	33	52	34
Bellefonte 1	58	0	69	51	0	45	0	88	49	0	26	0	31	23	0	21	0	40	22	0
Hatch 1&2		127	153	130	217	130	262	204	193	560		23	28	24	40	24	48	37	35	102
Vogtle 1&2		36	98	68	122	64	89	130	68	118		17	45	31	56	30	41	60	31	54
Susquehanna 1&2		136	279	135	202	264	239	195	345	175		24	49	24	36	46	42	34	61	31
GINNA		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Rancho Seco 1		2	39	31	0	37	60	0	46	0		1	18	14	0	17	28	0	21	0
Dresden 3			10	0	0	0	0	0	0	0			2	0	0	0	0	0	0	0
Quad Cities 1&2			101	100	724	0	0	0	0	0			18	18	128	0	0	0	0	0
LaSalle Cty 1&2			132	129	373	127	232	355	161	159			24	23	68	23	42	65	29	29
B Valley 2			54	0	56	35	0	66	38	0			25	0	26	16	0	30	18	0
B Valley 1				36	0	36	75	0	53	52				17	0	17	35	0	24	24
Clinton 1			37	116	0	119	144	0	178	196			7	21	0	22	26	0	33	36
Salem 1			31	46	0	45	76	0	55	54			14	21	0	21	35	0	25	25
Salem 2			46	0	63	46	0	61	55	0			21	0	29	21	0	28	25	0
WNP-1			18	35	51	35	54	70	57	50			8	16	23	16	25	32	26	23
WNP-3			49	33	53	32	55	71	58	53			21	14	23	14	24	31	25	23
Palo Verde 2					35	37	40	58	55	35					15	16	17	25	24	15
Palo Verde 1						37	40	56	55	34						16	17	25	24	15
Palo Verde 3					60	35	44	61	34	59					26	15	19	27	15	26
Summer 1						20	0	57	45	53						9	0	26	21	24
Crystal RVR 3							9	0	40	40							4	0	19	19
Nine Mile PT2							78	265	0	139							14	48	0	25
Nine Mile PT1								0	0	0								0	0	0
RVR Bend 1								118	122	77								22	22	14
Waterford 3								42	0	82								18	0	35
Seabrook-2								49	57	50								21	24	21
Seabrook 1									53	33									22	14
Hope Crk 1								184	141	0								33	26	0
Comanche PK 1&2									36	71									15	29
Callaway 1										37										16
PWR TOTAL	1415	1246	1936	1474	2060	1334	1692	1962	1927	1925	605	522	833	651	889	586	743	856	843	802
BWR TOTAL	2075	1473	2649	1647	3333	1732	2651	2748	2434	2797	372	268	480	298	602	314	481	498	441	508
TOTAL	3490	2719	4585	3121	5393	3066	4343	4710	4361	4722	977	790	1313	949	1491	900	1224	1354	1284	1311

TABLE A.7. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Annual Storage Requirements (contd)

POOL	Assemblies						:	MTIHM					
	2015	2016	2017	2018	2019	2020		2015	2016	2017	2018	2019	2020
INDIAN PT 3		62	0	0	0	0	:	0	28	0	0	0	0
NORTH ANNA 1&2	55	63	157	0	0	0	:	25	29	72	0	0	0
MILLSTONE 3	43	40	38	0	34	57	:	20	18	18	0	16	26
DAVIS-BESSE 1		60	56	0	0	0	:	0	28	26	0	0	0
BRAIDWOOD 1&2	85	89	72	64	60	104	:	36	38	30	27	25	44
CARROLL COUNTY-1&2	70	78	82	82	66	84	:	30	33	35	35	28	36
BYRON 1&2	85	89	71	59	62	102	:	36	38	30	25	26	43
ENRICO FERMI2		233	150	0	155	0	:	0	42	27	0	28	0
LIMERICK 1	168	135	0	125	154	0	:	31	25	0	23	28	0
LIMERICK 2	213	0	207	219	0	199	:	39	0	38	40	0	36
ST LUCIE 2		71	66	0	48	56	:	0	27	25	0	18	21
SAN ONOFRE 1,2,&3	57	120	0	131	0	141	:	24	51	0	56	0	60
WASH NUCLEAR2	85	141	133	100	92	110	:	15	25	23	18	16	19
PERRY 1&2		419	381	0	319	452	:	0	76	69	0	58	82
BROWNS FERRY3	145	0	234	0	0	0	:	20	0	42	0	0	0
BELLEFONTE 2	67	0	60	65	0	58	:	31	0	27	30	0	26
SEQUOYAH 1&2	42	138	45	51	90	0	:	16	63	21	23	41	0
WATTS BAR 1&2	61	112	0	99	44	69	:	26	51	0	45	20	32
BELLEFONTE 1	73	59	0	55	66	0	:	33	27	0	25	30	0
VOGTLE 1&2	89	80	64	84	91	79	:	41	37	30	39	42	36
SUSQUEHANNA 1&2	124	421	194	150	272	189	:	22	74	34	26	48	30
LASALLE CTY 1&2	234	195	184	283	124	190	:	43	36	34	52	23	35
B VALLEY 2	56	46	0	36	52	0	:	20	21	0	17	24	0
CLINTON 1		159	112	0	116	130	:	0	29	20	0	21	24
SALEM 1		68	64	0	0	0	:	0	31	29	0	0	0
SALEM 2	43	67	0	50	56	0	:	20	31	0	23	26	0
WNP-1	41	48	49	49	40	51	:	19	22	22	22	18	23
WNP-3	43	50	51	51	42	53	:	19	22	22	22	18	23
PALO VERDE 2	47	50	40	38	36	58	:	21	22	17	17	16	25
PALO VERDE 1	49	51	41	36	36	58	:	21	22	18	16	16	25
PALO VERDE 3	44	40	34	42	46	39	:	19	17	15	18	20	17
SUMMER 1	25	0	61	39	38	43	:	11	0	28	18	17	20
CRYSTAL RVR 3		50	45	0	0	0	:	0	23	21	0	0	0
NINE MILE PT2		214	0	150	188	0	:	0	38	0	27	34	0
RVR BEND 1	112	120	95	88	83	143	:	20	22	17	16	15	25
WATERFORD 3	43	44	40	41	0	53	:	18	19	17	18	0	23
SEABROOK-2	41	48	49	49	40	51	:	17	20	21	21	17	22
SEABROOK 1	48	52	41	30	34	56	:	20	22	17	13	14	24
YANKEE-ROWE 1	0	0	0	0	0	0	:	0	0	0	0	0	0
HOPE CRK 1	203	168	0	154	189	0	:	37	31	0	28	34	0
COMANCHE PK 1&2	9	102	84	71	73	118	:	40	41	34	29	29	48
CALLAWAY 1		74	66	0	49	57	:	0	31	28	0	21	24

TABLE A.7. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Annual Storage Requirements (contd)

POOL	Assemblies						:	MTIHM					
	2015	2016	2017	2018	2019	2020		2015	2016	2017	2018	2019	2020
TROJAN	10	0	0	0	0	0	:	5	0	0	0	0	0
FARLEY 2	40	0	0	0	0	0	:	0	18	0	0	0	0
DIABLO CNYN 1	28	51	0	29	48	0	:	0	13	23	0	13	22
DIABLO CNYN 2		41	29	50	38	0	:		19	13	23	17	0
HARRIS 1			19	36	0	0	:			9	17	0	0
GRAND GULF 2			33	136	171	0	:			6	25	31	0
GRAND GULF 1				151	173	0	:				27	30	0
WOLF CRK 1					15	0	:					7	0
SHOREHAM					77	0	:					14	0
							:						
PWR TOTAL	1316	1919	1468	1270	1218	1486	:	579	845	646	559	537	644
							:						
BWR TOTAL	1284	2205	1690	1302	1979	1814	:	233	398	306	235	357	327
							:						
TOTAL	2600	4124	3158	2572	3197	3300	:	812	1243	951	794	894	970

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements

POOL	Assemblies								MTIHM							
	1987	1988	1989	1990	1991	1992	1993	1994	1987	1988	1989	1990	1991	1992	1993	1994
MILLSTONE 1	28	28	150	150	332	332	527	639	5	5	27	27	59	59	94	114
PALISADES		37	37	37	104	137	137	177		14	14	14	41	53	53	69
PRAIRIE ISL 1&2						3	41	65						1	14	22
PILGRIM 1							148	148							28	28
BRUNSWICK 2							78	78							15	15
BRUNSWICK 1								110								21
CALVERT CLF 1&2								84								33
LACROSSE								8								1
FITZPATRICK								49								9
PWR TOTAL		37	37	37	104	140	178	326		14	14	14	41	54	67	124
BWR TOTAL	28	28	150	150	332	332	753	1030	5	5	27	27	59	59	134	184
TOTAL	28	83	187	187	436	472	931	1356	5	19	41	41	100	114	201	309

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MILLSTONE 1	639	749	749	870	870	1038	1038	1248	1353	1353	114	133	133	155	155	184	184	221	240	240
PALISADES	241	275	275	318	361	361	395	461	461	514	94	107	107	123	141	141	154	179	179	200
PRAIRIE ISL 1&2	130	180	262	312	340	415	440	522	572	634	45	63	91	109	118	144	153	182	200	221
PILGRIM 1	305	411	411	526	526	706	706	901	901	1055	54	73	73	93	93	125	125	160	160	187
BRUNSWICK 2	226	327	327	433	560	560	653	836	836	977	42	61	61	81	105	105	122	156	156	183
BRUNSWICK 1	258	258	442	549	549	715	808	808	906	1047	48	48	83	103	103	134	151	151	169	196
CALVERT CLF 1&2	142	190	338	386	439	573	623	699	797	856	56	75	133	152	172	225	245	275	313	336
LACROSSE	26	39	64	78	95	118	129	153	166	166	3	4	7	8	10	13	14	17	18	18
FITZPATRICK	192	192	367	474	474	634	742	742	848	985	35	35	66	85	85	114	133	133	152	177
INDIAN PT 3	2	2	81	136	136	204	204	293	336	336	1	1	37	62	62	93	93	134	153	153
SURRY 1&2	31	66	130	202	243	300	371	434	470	564	14	30	60	93	112	138	170	199	216	259
NORTH ANNA 1&2	57	134	205	247	344	406	445	590	628	682	26	62	95	114	159	187	205	272	290	315
COOPER STN		64	182	251	331	436	504	623	691	778	0	12	33	46	60	79	92	114	126	142
MILLSTONE 3		14	65	117	154	219	256	256	295	338	0	6	30	54	71	101	118	118	136	156
HADDAM NECK				30	67	114	114	169	197	197				12	27	47	47	69	81	81
MILLSTONE 2			67	116	116	174	209	209	247	308			27	47	47	71	85	85	100	125
FORT CALHOUN		12	53	53	92	137	137	178	203	203	0	4	19	19	33	49	49	64	73	73
DAVIS-BESSE 1		25	25	65	113	113	150	221	221	274	0	12	12	30	53	53	70	103	103	128
BRAIDWOOD 1&2			27	116	187	284	284	284	284	284			11	49	79	120	120	120	120	120
ZION 1&2				58	125	215	215	215	215	215				27	57	98	98	98	98	98
BYRON 1&2				89	159	256	256	256	256	256				38	67	108	108	108	108	108
BIG ROCK 1			6	20	37	55	70	70	70	70			1	3	5	7	9	9	9	9
POINT BEACH 1&2			39	83	128	186	230	299	343	395			14	29	45	66	82	106	122	140
ENRICO FERMI2				224	224	473	473	744	902	902				41	41	86	86	135	164	164
OYSTER CRK 1				41	41	197	303	303	401	401				7	7	35	54	54	71	71
PEACHBOTTOM 3				114	289	289	431	689	689	879				21	53	53	79	126	126	160
PEACHBOTTOM 2						220	363	363	508	696						41	67	67	94	129
LIMERICK 1				152	152	340	483	483	620	822				28	28	62	88	88	113	150
LIMERICK 2					272	516	516	671	864	864					50	94	94	122	157	157
MAINE YANKEE					19	85	85	159	202	202					7	32	32	60	76	76
ARK NUCLEAR 2						62	62	137	137	193						26	26	57	57	80
ARK NUCLEAR 1								71	71	125								33	33	58
TURKEY PT 1&2						45	111	164	197	279						21	51	75	90	128
ST LUCIE 1						81	133	133	197	260						25	45	45	65	88
ST LUCIE 2							52	136	136	199							20	52	52	75
COOK 1&2						91	139	230	334	399						37	59	96	140	170
SAN ONOFRE 1,2, &3						147	263	263	381	451						55	104	104	154	184
INDIAN PT 2							7	81	81	138							3	37	37	63
WASH NUCLEAR2							51	216	307	435							9	38	54	77
PERRY 1&2								372	372	810								68	68	148
DUANE ARNOLD								44	109	109								8	20	20
BROWNS FERRY1								76	76	299								14	14	54
BROWNS FERRY2									158	158									29	29
BROWNS FERRY3									161	161									29	29

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies										MTIHM									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
VT YANKEE 1								43	93	164								8	17	30
KENNAUNEE								26	49	79								10	19	30
BELLEFONTE 2										21										10
PWR TOTAL	603		1567		3023		5181		7310		236		636		1251		2137		3016	
		898		2326		4468		6486		8402		360		958		1836		2681		3477
BWR TOTAL	1646		2548		4420		7270		11031		295		457		794		1307		1987	
	2040		3732		6297		9383		13131		366		670		1132		1669		2369	
TOTAL	2249		4115		7443		12451		18341		532		1092		2044		3444		5003	
	2938		6058		10765		15869		21533		726		1627		2968		4370		5847	

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
MILLSTONE 1	1470	1470	1470	1470	1470	1470	1470	1470	1470	1470	281	281	281	281	281	281	281	281	281	281
PALISADES	554	554	603	603	603	603	603	603	603	603	216	216	235	235	235	235	235	235	235	235
PRAIRIE ISL 1&2	687	716	765	789	942	942	942	942	942	942	240	249	266	275	330	330	330	330	330	330
PILGRIM 1	1182	1182	1293	1293	1293	1293	1293	1293	1293	1293	209	209	229	229	229	229	229	229	229	229
BRUNSWICK 2	1094	1094	1198	1289	1289	1378	1555	1555	1684	1811	205	205	224	241	241	258	291	291	315	339
BRUNSWICK 1	1047	1179	1284	1284	1436	1525	1525	1670	1805	1937	196	220	240	240	269	285	285	312	338	362
CALVERT CLF 1&2	904	1011	1059	1107	1228	1276	1352	1454	1508	1725	355	397	416	435	482	501	531	571	592	647
LACROSSE	166	166	166	166	166	166	166	166	166	166	18	18	18	18	18	18	18	18	18	18
FITZPATRICK	85	1111	1216	1216	1361	1465	1465	1607	1734	1859	177	200	219	219	245	263	263	289	312	334
INDIAN PT 3	391	391	446	496	496	545	545	604	658	658	178	178	203	226	226	249	249	275	300	300
SURRY 1&2	602	647	720	755	912	912	912	912	912	912	276	297	330	347	419	419	419	419	419	419
NORTH ANNA 1&2	772	821	862	938	996	1034	1178	1251	1313	1420	356	379	398	433	460	477	544	577	606	655
COOPER STN	778	778	778	778	778	778	778	778	778	778	142	142	142	142	142	142	142	142	142	142
MILLSTONE 3	390	427	472	509	570	605	605	663	717	750	180	197	218	235	263	279	279	306	331	346
HADDAM NECK	232	272	272	272	272	272	272	272	272	272	95	112	112	112	112	112	112	112	112	112
MILLSTONE 2	308	353	392	392	450	490	490	541	587	639	125	143	159	159	183	199	199	220	238	259
FORT CALHOUN	241	281	281	311	311	311	311	311	311	311	87	101	101	112	112	112	112	112	112	112
DAVIS-BESSE 1	318	318	357	394	394	430	499	499	549	598	149	149	167	184	184	201	234	234	257	280
BRAIDWOOD 1&2	373	436	516	576	662	726	799	900	996	1056	158	184	218	244	280	307	338	381	421	446
CARROLL COUNTY-1&2		72	148	206	290	290	378	490	582	664	0	30	63	87	123	123	160	207	246	281
ZION 1&2	278	350	405	459	692	750	750	750	750	750	127	160	185	210	316	343	343	343	343	343
BYRON 1&2	344	408	488	546	631	695	766	867	961	1017	145	173	206	231	267	294	324	367	406	430
BIG ROCK 1	70	70	70	70	70	70	70	70	70	70	9	9	9	9	9	9	9	9	9	9
POINT BEACH 1&2	437	484	626	626	626	626	626	626	626	626	155	172	222	222	222	222	222	222	222	222
ENRICO FERM12	1126	1126	1330	1330	1554	1701	1701	1960	1960	2112	285	285	242	242	283	310	310	357	357	384
OYSTER CRK 1	525	525	525	525	525	525	525	525	525	525	93	93	93	93	93	93	93	93	93	93
PEACHBOTTOM 3	1043	1043	1187	1326	1326	1462	1712	1712	1712	1712	190	190	217	242	242	267	312	312	312	312
PEACHBOTTOM 2	696	872	1017	1017	1219	1219	1219	1219	1219	1219	129	161	188	188	226	226	226	226	226	226
LIMERICK 1	822	967	1131	1131	1299	1437	1437	1642	1751	1751	150	176	206	206	237	262	262	300	320	320
LIMERICK 2	1040	1194	1194	1401	1620	1620	1911	2130	2130	2310	189	217	217	255	295	295	348	388	388	420
MAINE YANKEE	248	300	300	300	300	300	300	300	300	300	93	112	112	112	112	112	112	112	112	112
ARK NUCLEAR 2	242	242	291	291	351	351	427	486	486	486	101	101	121	121	146	146	178	202	202	202
ARK NUCLEAR 1	170	170	211	211	268	268	268	268	268	268	79	79	98	98	124	124	124	124	124	124
TURKEY PT 1&2	313	352	416	605	605	605	605	605	605	605	144	162	191	278	278	278	278	278	278	278
ST LUCIE 1	260	326	377	377	450	501	501	569	626	626	88	109	128	128	152	170	170	192	213	213
ST LUCIE 2	253	253	305	357	357	407	486	486	545	603	96	96	116	135	135	154	184	207	229	229
COOK 1&2	456	516	623	678	745	801	971	1032	1098	1291	193	221	267	289	320	343	416	444	471	554
SAN ONOFRE 1,2,&3	511	577	639	696	771	829	922	995	1062	1128	210	238	265	289	321	346	385	417	445	473
INDIAN PT 2	186	186	228	269	269	269	269	269	269	269	85	85	105	123	123	123	123	123	123	123
WASH NUCLEAR2	540	657	751	842	976	1064	1227	1355	1471	1586	95	116	132	148	172	187	216	239	259	279
PERRY 1&2	1225	1225	1604	1890	1890	2191	2594	2594	3065	3423	219	219	288	340	340	395	469	469	555	620
DJANE ARNOLD	186	273	273	338	437	437	561	655	655	741	34	50	50	62	80	80	102	120	120	135
BROWNS FERRY1	299	505	505	663	663	663	663	663	663	663	54	92	92	120	120	120	120	120	120	120
BROWNS FERRY2	342	342	507	507	743	743	743	978	978	1194	62	62	92	92	135	135	135	178	178	217
BROWNS FERRY3	346	346	510	510	748	748	1036	1036	1243	1243	63	63	93	93	136	136	188	188	226	226

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
VT YANKEE 1	224	291	344	344	344	344	344	344	344	344	41	53	63	63	63	63	63	63	63	63
KEWAUNEE	104	132	154	177	208	208	208	208	208	208	40	51	59	68	80	80	80	80	80	80
BELLEFONTE 2	21	88	157	157	251	297	297	398	445	445	10	40	72	72	115	136	136	181	203	203
SEQUOYAH 1&2	52	110	157	252	319	365	527	590	650	708	24	51	72	116	146	168	242	271	298	325
WATTS BAR 1&2	112	165	220	315	315	406	455	526	639	712	51	78	101	145	145	186	209	241	293	327
BELLEFONTE 1	58	58	127	178	178	223	223	311	380	360	26	26	58	81	81	102	102	142	164	164
HATCH 1&2		127	280	410	627	757	1019	1223	1416	1976		23	51	75	114	138	166	223	258	360
VOGTLE 1&2		36	134	202	324	388	477	607	675	793		17	62	93	149	179	220	280	311	366
SUSQUEHANNA 1&2		136	415	550	752	1016	1255	1450	1795	1970		24	73	97	132	179	221	255	316	346
GINNA			9	9	9	9	9	9	9	9		3	3	3	3	3	3	3	3	3
RANCHO SECO 1		2	41	72	72	109	169	169	215	215		1	19	33	33	50	78	78	99	99
DRESDEN 3			10	10	10	10	10	10	10	10			2	2	2	2	2	2	2	2
QUAD CITIES 1&2			101	201	925	925	925	925	925	925			18	35	163	163	163	163	163	163
LASALLE CTY 1&2			132	261	634	761	993	1348	1509	1668			24	48	115	139	181	246	275	304
B VALLEY 2			54	54	110	145	145	211	249	249			25	25	51	67	67	97	115	115
B VALLEY 1				36	36	72	147	147	200	252				17	17	33	68	68	92	116
CLINTON 1			37	153	153	272	416	416	594	790			7	28	28	50	76	76	109	144
SALEM 1			31	77	77	122	198	198	253	307			14	35	35	56	91	91	116	141
SALEM 2			46	46	109	155	155	216	271	271			21	21	50	71	71	99	124	124
WNP-1			18	53	104	139	193	263	320	370			8	24	47	63	88	120	146	169
WNP-3			49	82	135	187	222	293	351	404			21	35	58	72	96	126	151	174
PALO VERDE 2					35	72	112	170	225	260					15	31	49	74	98	113
PALO VERDE 1						37	77	135	190	224						16	34	59	83	98
PALO VERDE 3				60	95	139	200	234	293					26	41	61	87	102	128	
SUMMER 1						20	20	77	122	175						9	9	35	56	80
CRYSTAL RVR 3							9	9	49	89							4	4	23	41
NINE MILE PT2							78	343	343	482							14	62	62	87
RVR BEND 1								118	240	317								22	44	58
WATERFORD 3								42	42	124								18	18	53
SEABROOK-2								49	106	156								21	45	66
SEABROOK 1									53	86									22	36
HOPE CRK 1								184	325	325								33	59	59
COMANCHE PK 1&2									36	107									15	43
CALLAWAY 1										37										16

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies										MTIHM									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
PWR TOTAL	9817	12999		16533		19559		23448			4082	5437	6977		8309		10005			
		11063		14473		17867		21521		25373		4604	6088		7563		9162		10807	
BWR TOTAL	15206	19328		24308		28691		33873			2741	3489	4389		5184		6124			
		16679		20975		26040		31439		36670		3009	3788		4703		5682		6632	
TOTAL	25023	32327		40841		48250		57321			6823	8928	11366		13490		16129			
		27742		35448		43907		52960		62043		7613	9875		12266		14844		17439	

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
MILLSTONE 1	1470	1470	1470	1470	1470	1470	261	261	261	261	261	261
PALISADES	603	603	603	603	603	603	235	235	235	235	235	235
PRAIRIE ISL 1&2	942	942	942	942	942	942	330	330	330	330	330	330
PILGRIM 1	1293	1293	1293	1293	1293	1293	229	229	229	229	229	229
BRUNSWICK 2	1811	1811	1811	1811	1811	1811	339	339	339	339	339	339
BRUNSWICK 1	1937	1937	1937	1937	1937	1937	362	362	362	362	362	362
CALVERT CLF 1&2	1725	1725	1725	1725	1725	1725	647	647	647	647	647	647
LACROSSE	166	166	166	166	166	166	18	18	18	18	18	18
FITZPATRICK	1859	1859	1859	1859	1859	1859	334	334	334	334	334	334
INDIAN PT 3	658	720	720	720	720	720	300	328	328	328	328	328
SURRY 1&2	12	912	912	912	912	912	419	419	419	419	419	419
NORTH ANNA 1&2	1475	1538	1695	1695	1695	1695	681	710	782	782	782	782
COOPER STN	778	778	778	778	778	778	142	142	142	142	142	142
MILLSTONE 3	793	833	871	871	905	902	366	384	402	402	418	444
HADDAM NECK	272	272	272	272	272	272	112	112	112	112	112	112
MILLSTONE 2	639	639	639	639	639	639	259	259	259	259	259	259
FORT CALHOUN	311	311	311	311	311	311	112	112	112	112	112	112
DAVIS-BESSE 1	598	658	714	714	714	714	280	308	334	334	334	334
BRAIDWOOD 1&2	1141	1230	1302	1366	1426	1530	482	520	550	578	603	647
CARROLL COUNTY-1&2	734	812	894	976	1042	1126	310	343	378	412	440	476
ZION 1&2	750	750	750	750	750	750	343	343	343	343	343	343
BYRON 1&2	1102	1191	1262	1321	1383	1485	466	504	534	559	585	628
BIG ROCK 1	70	70	70	70	70	70	9	9	9	9	9	9
POINT BEACH 1&2	626	626	626	626	626	626	222	222	222	222	222	222
ENRICO FERM12	2112	2345	2495	2495	2650	2650	384	427	454	454	482	482
OYSTER CRK 1	525	525	525	525	525	525	93	93	93	93	93	93
PEACHBOTTOM 3	1712	1712	1712	1712	1712	1712	312	312	312	312	312	312
PEACHBOTTOM 2	1219	1219	1219	1219	1219	1219	226	226	226	226	226	226
LIMERICK 1	1919	2054	2054	2179	2333	2333	350	375	375	398	426	426
LIMERICK 2	2523	2523	2730	2949	2949	3148	459	459	497	537	537	573
MAINE YANKEE	300	300	300	300	300	300	112	112	112	112	112	112
ARK NUCLEAR 2	486	486	486	486	486	486	202	202	202	202	202	202
ARK NUCLEAR 1	268	268	268	268	268	268	124	124	124	124	124	124
TURKEY PT 1&2	605	605	605	605	605	605	278	278	278	278	278	278
ST LUCIE 1	626	626	626	626	626	626	213	213	213	213	213	213
ST LUCIE 2	603	674	740	740	788	844	229	256	281	281	299	320
COOK 1&2	1291	1291	1291	1291	1291	1291	554	554	554	554	554	554
SAN ONOFRE 1,2,&3	1185	1305	1305	1436	1436	1577	498	549	549	605	605	665
INDIAN PT 2	269	269	269	269	269	269	123	123	123	123	123	123
WASH NUCLEAR2	1671	1812	1945	2045	2137	2247	294	319	343	360	376	396
PERRY 1&2	3423	3842	4223	4223	4542	4994	620	696	766	766	824	906
DUANE ARNOLD	741	741	741	741	741	741	135	135	135	135	135	135
BROWNS FERRY1	663	663	663	663	663	663	120	120	120	120	120	120
BROWNS FERRY2	1194	1194	1194	1194	1194	1194	217	217	217	217	217	217
BROWNS FERRY3	1388	1388	1622	1622	1622	1622	252	252	294	294	294	294

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies						:	MTIHM					
	2015	2016	2017	2018	2019	2020		2015	2016	2017	2018	2019	2020
VT YANKEE 1	344	344	344	344	344	344	:	83	83	83	83	83	83
KEWAUNEE	208	208	208	208	208	208	:	80	80	80	80	80	80
BELLEFONTE 2	512	512	572	637	637	695	:	234	234	261	291	291	317
SEQUOYAH 1&2	750	888	933	984	1074	1074	:	344	408	428	452	493	493
WATTS BAR 1&2	773	885	885	984	1028	1097	:	355	408	408	452	472	504
BELLEFONTE 1	433	492	492	547	613	613	:	198	224	224	250	280	280
HATCH 1&2	1978	1978	1978	1978	1978	1978	:	360	360	360	360	360	360
VOGTLE 1&2	882	962	1028	1110	1201	1280	:	407	444	473	512	554	591
SUSQUEHANNA 1&2	2094	2515	2709	2859	3131	3300	:	368	442	476	503	550	580
GINNA		9	9	9	9	9	:	3	3	3	3	3	3
RANCHO SECO 1	215	215	215	215	215	215	:	99	99	99	99	99	99
DRESDEN 3	10	10	10	10	10	10	:	2	2	2	2	2	2
QUAD CITIES 1&2	925	925	925	925	925	925	:	183	183	183	183	183	183
LASALLE CTY 1&2	1902	2097	2281	2564	2688	2878	:	348	382	415	467	490	524
B VALLEY 2	305	351	351	387	439	439	:	141	162	162	178	202	202
B VALLEY 1	252	252	252	252	252	252	:	118	118	118	118	118	118
CLINTON 1	790	949	1061	1061	1177	1307	:	144	173	194	194	215	239
SALEM 1	307	375	439	439	439	439	:	141	172	202	202	202	202
SALEM 2	314	381	381	431	487	487	:	144	175	175	198	224	224
WNP-1	411	459	508	557	597	648	:	187	209	232	254	272	296
WNP-3	447	497	548	599	641	694	:	193	214	237	259	277	300
PALO VERDE 2	307	357	397	435	471	529	:	134	156	173	190	208	231
PALO VERDE 1	273	324	365	401	437	495	:	119	141	159	175	191	216
PALO VERDE 3	337	377	411	453	499	538	:	147	164	179	198	218	235
SUMMER 1	200	200	261	300	338	381	:	92	92	120	138	155	175
CRYSTAL RVR 3	89	139	184	184	184	184	:	41	64	85	85	85	85
NINE MILE PT2	482	696	696	846	1034	1034	:	87	125	125	152	186	186
RVR BEND 1	429	549	644	732	815	958	:	78	100	117	133	149	173
WATERFORD 3	167	211	251	292	292	345	:	71	90	107	125	125	147
SEABROOK-2	197	245	294	343	383	434	:	83	104	124	145	162	184
SEABROOK 1	134	186	227	257	291	347	:	57	79	98	109	123	147
HOPE CRK 1	528	696	696	850	1039	1039	:	98	127	127	155	189	189
COMANCHE PK 1&2	206	308	392	483	536	654	:	83	124	158	187	216	264
CALLAWAY 1	37	111	177	177	226	283	:	16	47	75	75	96	120
TROJAN	10	10	10	10	10	10	:	5	5	5	5	5	5
FARLEY 2		40	40	40	40	40	:	0	18	18	18	18	18
DIABLO CNYN 1		28	79	79	108	156	:	0	13	36	36	50	72
DIABLO CNYN 2			41	70	120	156	:			19	32	55	72
HARRIS 1				19	55	55	:				9	26	26
GRAND GULF 2				33	169	340	:				8	31	62
GRAND GULF 1					151	324	:					27	57
WOLF CRK 1						15	:						7
SHOREHAM						77	:						14

TABLE A.8. Middle Case (with Extended Burnup) Maximum At-Reactor Capacity--
Plus Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	Assemblies						MTIHM					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
PWR TOTAL	26689	30078	32564				11386	12877	13973			
	28608	31346	34050				12232	13437	14617			
BWR TOTAL	37954	41849	45130				6865	7568	8160			
	40159	43151	46944				7262	7803	8487			
TOTAL	64643	71925	77694				18251	20445	22133			
	68767	74497	80994				19494	21240	23104			

APPENDIX B

MAP OF FEDERAL ENERGY REGIONS

APPENDIX B

	Region	States
I	New England	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
II	New York New Jersey	New Jersey, New York
III	Middle Atlantic	Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia
IV	South Atlantic	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
V	Midwest	Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin
VI	Southwest	Arkansas, Louisiana, New Mexico, Oklahoma, Texas
VII	Central	Iowa, Kansas, Missouri, Nebraska
VIII	North Central	Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
IX	West	Arizona, California, Hawaii, Nevada
X	Northwest	Alaska, Idaho, Oregon, Washington

FIGURE B.1. Federal Energy Regions

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