Reactor-Specific Spent Fuel Discharge Projections: 1986 to 2020

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March 1987

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ABSTRACT

The creation of five reactor-specific 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) Upper Reference (which assumes extended burnup), 4) Upper Reference with Constant Burnup, and 5) Lower Reference (which assumes extended 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 generated as a result of commercial nuclear power plant operations in the U.S. The Office of Civilian Radioactive Waste Management (OCRWM) has been established within 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 spent fuel 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 (DOE/EIA 1986a). In addition, the EIA also publishes projections of spent fuel discharges from commercial nuclear plants which are keyed to each nuclear energy generation projection (DOE/EIA 1986b). These EIA energy projections provide several scenarios representing 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 transportation logistics, specific 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 analysis, the DOE-sponsored work to create adjusted data base sets (ADBs) based on utility-supplied data, and adjusted to meet EIA projections of annual spent fuel discharges, nuclear capacity, and energy generation. The Pacific Northwest Laboratory (PNL), operated for the DOE by Battelle Memorial Institute, produced

these ADBs for three time periods. The first ADB set was based on historical data complete through 1983 and projected data from 1984 to 2020 (Heeb, Libby, and Holter 1985). The second set of ADBs included historical information complete through 1984 and projected information from 1985 to 2020 (Heeb et al. 1986). This document describes the ADB set that includes historical data through 1985 collected by EIA in 1986 and projected data for the 1986 to 2020 time period.

In the first study, the basic source of data used to develop the reactor-specific information was the utility supplied Spent Fuel Data Base (SFDB) collected by PNL for the DOE Commercial Spent Fuel Management (CSFM) Program. The second set of ADBs consists of utility data (SFDB) collected by EIA via the RW-859 form and processed by PNL. This set contains historical data through 1984 and projections from 1985 to 2020. The third ADB set described in this report is based on utility information (SFDB) collected by EIA during 1986, and projects for the period from 1986 through 2020. Pacific Northwest Laboratory produced the new ADB set by adjusting the EIA data from the RW-859 form to meet EIA projections of nuclear capacity, energy generation, and spent-fuel discharges.

The Reactor Data Analysis (RDA) Program uses the adjusted data bases for a number of planning purposes. Roy F. Weston Inc. uses adjusted data base information to calculate total system life cycle costs (TSLCC) for OCRWM. 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. It is used in the DOE Nuclear Waste Systems Integration (NWSI) Program as well as the Monitored Retrievable Storage (MRS) Program.

Three 1986 EIA nuclear growth scenarios were chosen as bases for developing the 1986 reactor-specific spent fuel discharge projections: the Upper Reference Case, the Lower Reference Case, and the No New Orders Case. The background assumptions for these cases are described in documents published by DOE (DOE/EIA 1986a and DOE/EIA 1986b). The Upper Reference Case has been previously selected by the OCRWM as the base case for waste management planning purposes. The Lower Reference and the No New Orders Cases were included to provide additional data sets that could be used in analysis of the sensitivity

of analytical results and management decisions to possible reductions in nuclear growth in the U.S. The projected installed nuclear generating capacity projections for the three growth scenarios are shown in Figure 3.2. The projected nuclear electric energy generation projections are shown in Figure 3.3.

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 the startup of others will be delayed beyond official utility startup estimates. The Upper and Lower Reference Cases include additional power plants, not currently on order, coming on line starting in 2001 and 2006 respectively to provide sufficient power generation capacity to correspond to the overall nuclear energy production rates in the EIA projections. In the No New Orders Case it is assumed that some plants in the construction pipeline will be canceled and the startup dates of pipeline plants will be delayed when compared with the Upper Reference Case. The Lower Reference Case contains the same set of plants under construction (pipeline plants) as the No New Orders Case, however a modest addition of generic plants is assumed after 2005.

In making projections of the amount of spent fuel discharged, EIA considers cases of constant and extended burnup. In the Upper and Lower Reference Cases it is assumed by 1998 that the reactors will extend their current burnups by 30 percent. The discharge burnups for these cases are then assumed constant beyond 1998.

An Upper Reference Case with constant burnup was also considered. In this case, the burnup level was held at the 1979 to 1983 historical levels through 2020. Thus, at projected annual energy generations forecasted by the Upper Reference Case, two spent-fuel discharge projections are made corresponding to the constant and extended burnup assumptions (DOE/EIA 1986b, Table E.2). A similar set of assumptions for burnup are made for the energy generation forecasted in the No New Orders Case.

In order to meet the installed capacity and energy-generation requirements beyond the year 2000 for the Reference Cases, it was necessary to add generic power plants to the population of operating and pipeline 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 ADB 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. A mixture of two thirds pressurized water reactors (PWRs) and one third boiling water reactors (BWRs) was assumed to conform with EIA Reference Case Assumptions.

The data-base names are abbreviated as shown in Table 1.1.

TABLE 1.1. List of Acronyms for Data Base Names

<u>Acronym</u>	<u>Data Base</u>
SFDB	The Unmodified Spent Fuel Data Base Containing Only Utility-Supplied Data. This data is used for the spent Fuel Requirements Report (DOE/RL 1986) and for many other purposes.
ADB	Any Adjusted Data Base
NNE	No New Orders Case, Assumes Extended Burnup
NNC	No New Orders Case Sensitivity Case with Constant Burnup
URE	Upper Reference Case, Assumes Extended Burnup
URC	Upper Reference Case Sensitivity Case with Constant Burnup
LRE	Lower Reference Case, Assumes Extended Burnup

The adjusted data base names are keyed to case names published in World Nuclear Fuel Cycle Requirements, 1986 (DOE/EIA 1986b, Tables E.1 and E.2).

2.0 SUMMARY

The utility-supplied spent-fuel discharge forecasts contained in the 1986 SFDB were adjusted to produce agreement with EIA discharge forecasts (DOE/EIA 1986b). Adjustments were made also to utility-supplied projected discharge burnups in the 1986 SFDB to produce agreement with EIA burnup and energy-generation assumptions (DOE/EIA 1986a). Five reactor-specific ADBs were produced to match five EIA cases. The ADBs are designated as follows:

1. No New Orders, Extended Burnup-NNE
2. No New Orders, Constant Burnup-NNC
3. Upper Reference, Extended Burnup-URE
4. Upper Reference, Constant Burnup-URC
5. Lower Reference, Extended Burnup-LRE.

The adjustment procedure changes the amount of fuel discharged annually so that it agrees with the EIA forecast. The method allows the discharged fuel batch identity of the utility data base to remain intact, while exact agreement with EIA projected spent fuel discharges is obtained by adjusting batch size. Burnup is then adjusted to produce agreement with EIA burnup and energy generation forecasts.

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

- description of the data base
- data base adjustment procedures
- addition of generic power reactors
- calculated data base annual electric energy generation.

The accumulated spent fuel inventory for each of the five cases analyzed, and the original utility inventory projection are presented in Chapter 3.0.

Reactor-specific discharge and storage requirements for four scenarios are presented in Appendix A. Table A.1 gives startup and shutdown dates for reactors in the four scenarios: the Utility case, the No New Orders Case, the Upper Reference Case, and the Lower Reference Case. Table A.2 gives the names and startup dates for the Upper and Lower Reference Case generic reactors.

Tables A.3 and A.4 show the Upper Reference Case (URE) 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 for the URE data base. These compare directly to the storage requirements from the utility-supplied data, as reported by the DOE Richland Operations Office (DOE/RL 1986).

The reactor-specific spent fuel discharge projections contained in this report cover the period from 1986 through 2020. This covers a total cumulative spent fuel inventory of 123,667 MTU for the Upper Reference Case, Constant Burnup to 79,550 MTU for the No New Orders, Extended Burnup Case. A description of the methods and the results is included in the next section of this report. Detailed information that supports 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 1986 SFDB is a compendium of information on U.S. commercial power reactor spent fuel and other reactor-specific information collected by EIA via the RW-B59 form. It is based on data provided by the operating utility, and represents their estimate of the amounts and characteristics of the spent-fuel discharges. Electrical energy generation is not contained explicitly in the data base, but it may be derived from the spent-fuel quantities and spent-fuel burnup 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 start-up 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 succeeding portions of the file are organized by operating cycle, that is, by the period between successive discharges. The third portion of the SFDB contains projected discharge information for 1986 and beyond.

The electrical energy generation implicit in the SFDB is entirely independent of the nuclear energy generation forecasts made by EIA. The SFDB was modified to produce an ADB that is consistent with these nuclear-energy generation and discharged-fuel amount forecasts. The technical steps involved in modifying the SFDB to produce an ADB that conforms to the EIA projections are described in this section. The principal requirement of the modification was to retain as much of the detailed utility estimates of exposure, plant capacity factor, and discharge schedules as possible, while matching the EIA spent-fuel discharged amount, and energy-generation forecasts.

3.2 DATA BASE ADJUSTMENT PROCEDURE

The steps in the adjustment procedure are shown in Figure 3.1. The adjustment process required the construction of four major processors. Each of

Legend: □ Processing Step ▣ Data Base

Data Base Adjustment Process for the No New Orders Case

Data Base Adjustment Process for the Reference Cases

FIGURE 3.1. Flow Diagram of the Data Base Adjustment Process for the No New Orders and Reference Cases

these is described in the sections that follow. The adjustment process is entirely concerned with the time beyond 1985, 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 DOE/EIA (1986a) for pipeline reactors starting up from 1986 to 2020 were shifted six months later to represent the startup date for commercial operation, which is the starting date of energy generation used by the ADB energy calculation algorithm. The start-up date for each reactor is shown in Appendix A, Table A.1. Pipeline reactors that are assumed by EIA to be canceled are removed.

The utility-supplied pattern of discharges was also shifted six months later than the EIA operable date. The shutdown dates were adjusted to 40 years after the adjusted startup date. Generic reactors were added to the Reference Cases so that installed nuclear generation capacity could be matched. The installed capacity match was accomplished at the end of Step 1.

3.2.2 Step 2--Adjustment of Utility Discharges to Match EIA Energy Projections

The projected discharge amounts in the SFDB are modified to agree with EIA data published by DOE/EIA (1986b). An adjustment ratio, which is equal to the ratio of the EIA target amount to the unadjusted amount from the SFDB, was calculated for each year. In producing the No New Orders ADBs, all discharges were adjusted by this ratio. In producing the Reference Case ADBs, the adjustment was applied only to reactors starting up after 1985. In these cases, a larger adjustment factor was required to match the EIA target discharge because not all reactors were eligible for adjustment. The No New Orders ADB discharges from reactors operating before 1986 were therefore preserved as a subset of the Reference Case data bases.

3.2.3 Step 3--Adjustment of Burnups to Match EIA Projections

In Step 3 the average annual burnup was adjusted to meet EIA average burnup forecasts. A limit of 60,000 MWD/MTIHM was placed on individual PWR burnups, and a limit of 50,000 MWD/MTIHM was used as the maximum BWR burnup.

EIA does not publish actual average annual burnups of spent-fuel discharge projections, hence utility-supplied burnups were increased according to EIA's stated increased burnup assumptions (30% by 1998) in the extended burnup cases. Some slight changes were made to the average annual burnups of all adjusted data bases in order to match EIA annual energy generation forecasts.

3.2.4 Step 4--Calculation of Electrical Energy Generation from the ADB

The information available on the data base permits an estimation of the electrical energy generated by the fuel during its residence in the core. Energy generation in a batch of discharged fuel is equal to the product of the burnup (MWD/MTIHM) and the amount discharged (MTIHM). This is the thermal energy generated in the fuel. The electrical energy is the product of the thermal energy and the thermal efficiency of the reactor. In order to calculate the annual electrical generation by the reactor it is necessary to relate the thermal energy generated by the fuel to the electrical energy generated by the reactor. The algorithm employed to do this is based on the relative energy generated by the fuel batches during equilibrium operation. The algorithm is then modified to include non-equilibrium initial core batches.

During equilibrium operation, each position in the core is designated as one that holds fresh fuel, once-burned fuel, twice burned fuel, etc. The batch of fresh fuel going in will generate E_1 kWh during its first cycle of residence. During the next cycle, the batch of fuel will be moved into the designated once-burned fuel positions in-core and generate E_2 kWh. This progression continues until the discharge cycle is reached. During this cycle let E_N be the final energy generated by the batch during the last cycle of residence. The energy generated by the discharged batch, E_D , will be the sum of the energy generated in each cycle of residence, $E_D = E_1 + E_2 + \dots + E_N$.

During any give cycle of operation, however, there will be a batch of fresh fuel in-core that will generate E_1 kWh and a once-burned batch in-core that will generate E_2 kWh. This progression will continue until the highest-burned batch is reached, which will generate E_N kWh. The energy generated by the reactor during any cycle of equilibrium operation, E_R , will be the sum of the energy generated by all fuel batches resident in-core during the cycle, $E_R = E_1 + E_2 + \dots + E_N$. Hence, E_D equals E_R . This key relationship is used to

calculate the cycle energy from the amount discharged and the burnup, parameters that are readily available on the data base.

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 3.0. The second discharge ratio would approximate half of this, or 1.5. The third discharge ratio would approximate unity, and 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 (E_R/E_D) were calculated and the results are summarized in Table 3.1.

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

The energy of a given cycle is approximated by adding the product of total burnup, weight of the batch, and the thermal efficiency of the reactor over all batches discharged at the end of the cycle. This energy is E_D , the energy generated by the discharged fuel. If the reactor is at equilibrium,

then E_D equals E_R , as has been demonstrated; the energy generated in the discharged fuel is the energy generated by the reactor during the operating cycle. If the reactor is not at equilibrium, then the appropriate factor from Table 3.1 is multiplied by E_D to obtain E_R , the cycle energy. For example, if the reactor were a PWR, and was its second cycle of operation, then E_R equals $1.266 \times E_D$.

The annual energy generation is calculated from E_R by allocation to each year according to the number of months in the year for that cycle. Thus if a 17 month cycle had one month in year X , 12 months in year $(X + 1)$, and the remaining four months in year $(X + 2)$, then the reactor would contribute to each of the three year's energy generation as follows: year X would contribute $1/17 \times E_R$; year $(X + 1)$ would contribute $12/17 \times E_R$; and year $(X + 2)$ would contribute $4/17 \times E_R$. The annual contributions from each reactor cycle calculated in this manner are added together to compute the annual energy generation schedule for comparison to EIA energy generation forecasts.

3.3 GENERIC REACTOR ADDITIONS

The SFDB contains information only on those reactors that were operating, under construction, or in the planning stage by some U.S. utility in 1985. In order to meet EIA annual spent-fuel discharged amounts, installed nuclear capacity, and energy-generation forecasts after 2000 for the Reference Cases, it is necessary to include generic reactors in the shifted data base after 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 average 18 month refueling schedule. The PWR design exposure was 37,800 MWD/MTIHM, and the BWR burnup was 36,000 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 were 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 was

TABLE 3.2. Generic Reactor Properties

	<u>PWR</u>	<u>BWR</u>
Rated Power Level	1,100 MWe	1,100 MWe
Thermal Power Level	3,411 MWth	3,320 MWth
Average Fuel Cycle Length	18 Months	18 Months
Equilibrium Enrichment	3.70 wt%	3.0 wt%
Discharge Exposure	37,800 MWD/MTIHM	36,000 MWD/MTIHM

equivalent to 15.65 generic plants by a given year, one of the plants would 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 were 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. This 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.

TABLE 3.3. Federal Region Location

<u>Federal 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

Site diversity is assured by making the assumption that the regional capacity distribution exhibited by the No New Orders Case in 1995 will continue until 2020. This projects the regional installed capacity distribution for the succeeding 25 year period without change. This assumption was implemented by apportioning the addition of generic reactors to each region according to the 1995 No New Orders distribution. Table 3.4 shows the 1995 No New Orders Case installed capacities and

TABLE 3.4. Allocation of Generic Reactors to Federal Region

Federal Energy Region	NNO 1995 Capacity		Generic Reactors			
			Upper Reference		Lower Reference	
			No.	(%)	No.	(%)
I	6,509	6.2	9	6.4	4	6.5
II	8,707	8.3	12	8.6	5	8.1
III	12,676	12.0	17	12.1	8	12.9
IV	32,296	30.7	42	30.0	19	30.6
V	21,789	20.7	29	20.7	13	21.0
VI	7,284	6.9	10	7.1	4	6.5
VII	3,234	3.1	4	2.9	2	3.2
VIII	330	0.3	0	0.0	0	0.0
IX	10,199	9.7	14	10.0	6	9.7
X	2,175	2.1	3	2.1	1	1.6
Totals	105,199	100.0	140	100.0	62	100.0

the number of Reference Case generic reactors in each region. Since each generic reactor is rated at 1100 MWe, the capacities are directly proportional to number of generic reactors. Hence the comparison of No New Orders Case percentage capacity and the percentage of the number of generic reactors in Table 3.4 is reasonable. 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 in 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 within a specific region . The generic reactors are then assigned chronologically in order of their startup date using this priority.

To match the EIA projections of installed nuclear capacity for the Upper Reference Case, 93 generic PWRs and 47 generic BWRs were required (a total of 140 generic reactors or a 154 GWe generic reactor capacity). For the Lower Reference Case, 41 generic PWRs and 21 generic BWRs were necessary. The 62 Lower Reference Case generic reactors represent a 68.2 GWe generic reactor capacity.

3.4 ADJUSTED DATA BASE ANNUAL ELECTRIC ENERGY GENERATION

The data base annual energy generation calculational procedure is not an exact process. Approximations are required because the data base contains no information on electrical generation. The calculation of annual energies from operating cycle energies as described in Section 3.2.4 reflects the altered discharge amounts and the burnup assumptions imposed on the utility data. The method of calculation: the estimation of annual generation from the product of amount discharged and burnup, will necessarily cause year-to-year fluctuations in the apparent annual energy generation. The level of approximate agreement is a measure of the consistency of EIA projections of spent-fuel discharges, burnup, annual electric energy generation, and detailed utility data.

3.5 DATA BASE ADJUSTMENT RESULTS

The projected annual spent fuel discharged amounts for all five ADBs are shown in Table 3.5. These amounts agree, within the number of significant figures given in the EIA projections, with the estimates published by DOE/EIA (1986b, Table E1).

The cumulative discharged amounts are shown in Table 3.6 for all five adjusted data bases. These data should be compared with the data published by DOE (DOE/EIA 1986b, Table E2). In Table E2 of the DOE/EIA Report, the inventory of spent fuel in 1985 was based on a preliminary estimate of 12,400 MTIHM. The final inventory is 12,651 MTIHM, which is the amount used in the Spent Fuel Storage Requirements report (DOE/RL 1986). When this starting difference of

251 MTIHM is taken into account the inventory schedule in Table 3.6 agrees with EIA Table E2 within the number of significant figures shown in the EIA projection. The spent fuel inventory projections are shown in Figure 3.2.

TABLE 3.5. Annual Discharges from the Five Adjusted Data Bases (MTIHM)

Year	No New Orders		Upper Reference		Lower Reference
	Ext. Burnup	Const. Burnup	Ext. Burnup	Const. Burnup	
1985	1200	1200	1200	1200	1200
1986	1400	1400	1400	1400	1400
1987	1500	1500	1548	1592	1500
1988	1700	1700	1840	1800	1700
1989	1900	1900	2100	2100	1900
1990	2000	2000	2000	2200	2000
1991	2100	2100	2000	2200	2100
1992	2100	2200	2193	2299	2100
1993	2100	2100	2000	2200	2100
1994	2000	2100	2000	2207	2000
1995	1999	2300	2100	2400	1999
1996	2000	2199	2000	2500	2000
1997	1800	2100	2000	2400	1800
1998	1900	2300	1991	2499	1900
1999	2000	2300	2000	2500	2000
2000	1900	2200	2100	2500	1900
2001	1900	2300	2000	2500	1900
2002	1899	2300	2000	2509	1899
2003	2001	2300	2200	2700	2001
2004	2019	2323	2319	2824	2000
2005	1880	2277	2280	2776	1899
2006	2000	2299	2600	3100	2000
2007	2100	2400	2700	3399	2100
2008	1900	2400	2599	3400	1900
2009	2100	2500	3100	3600	2199
2010	2300	2600	3199	3900	2401
2011	2201	2600	3300	4099	2299
2012	2199	2600	3600	4400	2500
2013	2300	2700	3699	4516	2600
2014	2600	2900	4200	4799	3000
2015	2100	2400	4200	4900	2800
2016	1700	2000	3999	4899	2499
2017	1700	1900	4099	4799	2699
2018	1300	1500	4100	4700	2300
2019	1100	1399	3999	5099	2299
2020	1201	1300	4199	5300	2700

The EIA installed nuclear capacity projections are shown in Figure 3.3 for the No New Orders Case, the Upper Reference Case and Lower Reference Case. The nuclear electric energy generation forecasts from EIA that correspond to the

TABLE 3.6. Cumulative Discharges from the Five Adjusted Data Bases (MTIHM)

Year	No New Orders		Upper Reference		Lower Reference
	Ext. Burnup	Const. Burnup	Ext. Burnup	Const. Burnup	
1985	12651	12651	12651	12651	12651
1986	14051	14051	14051	14051	14051
1987	15551	15551	15600	15643	15551
1988	17251	17251	17439	17443	17251
1989	19151	19151	19539	19543	19151
1990	21151	21151	21539	21743	21151
1991	23251	23251	23538	23943	23251
1992	25351	25451	25731	26242	25351
1993	27451	27551	27731	28442	27451
1994	29451	29651	29730	30649	29451
1995	31450	31951	31830	33049	31450
1996	33450	34150	33830	35549	33450
1997	35250	36250	35830	37949	35250
1998	37150	38550	37821	40448	37150
1999	39150	40850	39821	42948	39150
2000	41050	43050	41920	45448	41050
2001	42950	45350	43920	47948	42950
2002	44849	47650	45920	50457	44849
2003	46850	49950	48120	53157	46850
2004	48869	52273	50439	55981	48850
2005	50749	54550	52720	58757	50749
2006	52749	56849	55320	61857	52749
2007	54849	59249	58020	65256	54849
2008	56749	61649	60619	68656	56749
2009	58849	64149	63719	72256	58948
2010	61149	66749	66918	76156	61349
2011	63350	69349	70218	80255	63648
2012	65549	71949	73817	84655	66148
2013	67849	74649	77517	89171	68748
2014	70449	77549	81716	93970	71748
2015	72549	79949	85916	98870	74548
2016	74249	81949	89915	103769	77047
2017	75949	83849	94014	108568	79746
2018	77249	85349	98114	113268	82046
2019	78349	86748	102113	118367	84345
2020	79550	88048	106313	123667	87045

FIGURE 3.2. Projected Spent Fuel Inventory

FIGURE 3.3. EIA Installed Nuclear Capacity Projections

capacity projections are shown in Figure 3.4. The forecasts of capacity and energy are given in five-year intervals from 1985 to 2020. The capacity and energy forecasts, unlike the spent-fuel discharge forecast, are independent of

FIGURE 3.4. EIA Nuclear Energy Generation Projection

the assumptions of extended or constant burnup. Therefore, only the three cases shown in Figures 3.3 and 3.4 are necessary.

Figure 3.5 shows the adjusted data base nuclear generation capacity compared to the EIA values shown in Figure 3.3. The EIA values are shown as points at the five year intervals which define the EIA projection. The EIA target capacities and data base capacities are nearly identical.

The energy generation from each ADB is compared to EIA five-year interval projections in Figure 3.6. The approximate nature of the energy calculation from data-base discharges and burnups shows up as a year-to-year variation in energy. Figure 3.6 shows that EIA projected values are well within variations in apparent annual energy generation and that the pattern corresponds well with EIA projections. Since the primary use of the adjusted data bases is to provide detailed projections of spent-fuel discharges, and not to forecast nuclear energy generation, the calculation shows that the amounts discharged and the burnup of the discharged fuel is sufficiently consistent with EIA energy-generation forecasts.

3.6 SPENT FUEL STORAGE REQUIREMENTS

The final result to be reported is the analysis of additional fuel storage requirements. The two storage-scenario 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 spent fuel transfer between them. The only difference between the two cases is in the consideration of transshipment to other reactor sites. The first case assumes that transshipments occur only as currently planned by the utilities. The second case includes the additional assumption that there are no constraints on

FIGURE 3.5. ADB Capacity and EIA Projections

transshipments of spent fuel among reactors of like type (i.e. among BWRs or among PWRs) within a given utility system. This allows unused spent fuel storage capacity at one reactor to offset needs for additional capacity at another

FIGURE 3.6. ADB Energy and EIA Energy Projections

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.

The maximum AR capacity case results are given in Table 3.7 and Figure 3.7 for the five projected data bases: No New Orders with Extended Burnup, No New Orders with Constant Burnup, Upper Reference Case, Upper Reference Case with Constant Burnup, the Lower Reference Case, and for the unadjusted Utility Data Base. The time period covers the range from 1986 to the year 2020. The availability of Federally-operated storage or repository facilities is not taken into account in these projections. It is planned that the first repository will begin accepting fuel by 1998, which would make the projections unrealistic for that year and beyond.

It is evident that the five adjusted data bases have substantially reduced additional storage requirement needs compared to the utility estimate. This reduction is due both to the reduced plant operating capacity factor and (in later years) to the delayed startup assumptions. The additional storage requirements taking transshipment into account are shown in Table 3.8 and in Figure 3.8 for the four projected data bases and for the Utility Data Base. A comparison of Tables 3.7 and 3.8 shows that transshipment is an effective means of reducing additional storage requirements. The transshipment cumulative amounts for the utility data base do not agree exactly with information published previously (DOE/RL 1986). An error in the requirements report was discovered after publication. The information in this report reflects the corrected data, which differs slightly from the previously reported data (DOE/RL 1986) beginning in 1997.

TABLE 3.7. Cumulative Storage Requirements--Maximum AR Storage (MTIHM)

Year	Utility Base	No New Orders Burnup:		Upper Reference Case Burnup:		Lower Ref. Case
		Ext.	Const.	Ext.	Const.	
1986	27	22	22	22	22	22
1987	103	64	63	64	63	64
1988	203	145	144	145	144	145
1989	343	264	263	264	263	264
1990	570	390	390	390	390	390
1991	813	585	584	585	584	585
1992	1156	848	860	848	860	848
1993	1456	1065	1078	1065	1078	1065
1994	2057	1504	1545	1469	1509	1504
1995	2555	1794	1878	1760	1877	1794
1996	3418	2228	2402	2169	2385	2228
1997	4346	2839	3153	2745	3177	2839
1998	5309	3443	3957	3368	4004	3443
1999	6516	4191	4909	4047	4891	4191
2000	7821	5149	6069	5000	6148	5149
2001	9173	5881	7003	5746	7255	5881
2002	10757	6792	8136	6647	8537	6792
2003	12302	7847	9522	7788	10188	7847
2004	13904	8802	10827	8836	11768	8799
2005	16044	9966	12312	9982	13346	9967
2006		11190	13937	11285	15075	11190
2007		12443	15642	12543	16997	12441
2008		13743	17447	13859	18997	13721
2009		15215	19362	15363	21110	15226
2010		16777	21288	16949	23246	16767
2011		18292	23314	18418	25405	18225
2012		19709	25269	19858	27480	19648
2013		21356	27405	21474	29753	21212
2014		22961	29365	23063	31877	22751
2015		24209	30880	24337	33548	23992
2016		25198	32183	25332	35086	24871
2017		26395	33611	26546	36677	26003
2018		27247	34735	27390	37980	26805
2019		28066	35880	28262	39478	27565
2020		29042	36962	29239	40848	28424

FIGURE 3.7. Cumulative Additional Storage Requirement--Maximum At-Reactor Storage

TABLE 3.8. Cumulative Storage Requirements--Maximum AR Storage Plus Transshipment (MTIHM)

Year	Utility Base	No New Orders Burnup:		Upper Reference Case Burnup:		Lower Ref. Case
		Ext.	Const.	Ext.	Const.	
1986	0	0	0	0	0	0
1987	31	17	16	17	16	17
1988	31	17	16	17	16	17
1989	93	70	69	70	69	70
1990	121	92	92	92	92	92
1991	191	126	126	126	126	126
1992	292	162	163	162	163	162
1993	515	253	258	199	202	253
1994	926	495	520	342	359	495
1995	1333	696	748	523	588	696
1996	2086	987	1131	760	986	987
1997	2765 (a)	1434	1670	1252	1609	1434
1998	3746 (a)	1919	2328	1716	2265	1919
1999	4871 (a)	2551	3224	2289	3114	2551
2000	6029 (a)	3371	4206	3145	4212	3371
2001	7310	4112	5188	3880	5280	4112
2002	8777	4951	6225	4725	6436	4951
2003	10219	5945	7479	5782	7964	5945
2004	11847	6824	8646	6733	9465	6821
2005	13997	7887	10027	7752	11052	7888
2006		9001	11514	8920	12717	9004
2007		10094	13244	10060	14769	10097
2008		11393	15101	11335	16833	11363
2009		12859	17070	12766	18837	12870
2010		14482	19168	14358	21155	14450
2011		16036	21349	15854	23401	15926
2012		17518	23459	17296	25591	17415
2013		19248	25730	18949	27897	19035
2014		21026	27864	20651	30025	20737
2015		22376	29502	22014	31873	22078
2016		23516	30946	23175	33539	23079
2017		24801	32422	24414	35166	24285
2018		25081	33612	25411	36519	25221
2019		26724	34823	26381	38056	26069
2020		27775	35969	27425	39512	27074

(a) Requirements differ from those reported by DOE/RL (1986) for the four year period 1997-2000 due to a processor error which was discovered and corrected after that report was issued. By 2000 the difference is 80 MTIHM out of 6029, or 1.3%.

FIGURE 3.8. Cumulative Additional Storage Requirement--Maximum At-Reactor Storage Plus Transshipment

4.0 REFERENCES

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APPENDIX A

DETAILED DATA BASE RESULTS

APPENDIX A

DETAILED DATA BASE RESULTS

The following tables provide detailed results for four scenarios: Utility, No New Orders, Upper Reference Case, and Lower Reference Case. Table A.1 gives startup and shutdown dates for Utility, No New Orders, Upper Reference, and Lower Reference Cases. Table A.2 gives names and startup dates for the Upper and Lower Reference Case generic reactors. Tables A.3 to A.8 give Upper Reference Case by-reactor discharge projections similar to information supplied by the Spent Fuel Storage Requirements Report for the Utility Data Base (DOE 1986c). The Upper Reference Case has been selected by OCRWM as the planning base case. Therefore, Tables A.3 through A.8 are provided for this case.

<u>Table Number</u>	<u>Title</u>
A.1	Startup and Shutdown Dates with Federal Energy Region shown for Utility, No New Orders, Upper and Lower Reference Cases
A.2	Startup and Shutdown Dates with Federal Energy Region shown for Upper and Lower Reference Case Generic Reactors
A.3	Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges
A.4	Upper Reference Case, 1985 and Projected Inventories
A.5	Upper Reference Case, Maximum At-Reactor Capacity - Projected Annual Storage Requirements
A.6	Upper Reference Case, Maximum At-Reactor Capacity - Projected Cumulative Storage Requirements
A.7	Upper Reference Case, Maximum At-Reactor Capacity - Plus Transshipment - Projected Annual Storage Requirements
A.8	Upper Reference Case, Maximum At-Reactor Capacity - Plus Transshipment - Projected Cumulative Storage Requirements

TABLE A.1. Startup and Shutdown Dates with Federal Energy Region Shown for Utility, No New Orders, Upper Reference and Lower Reference Cases

Reactor	Fed. En. Region	Utility SU	Case SD	No New Orders and Lower Ref. Cases		Upper Ref. Case	
				SU	SD	SU	SD
DRESDEN 1	5	1960/07	1984	1960/07	1978	1960/07	1978
YANKEE-RDWE	1	1961/07	2001	1961/07	1998	1961/07	1998
INDIAN PT 1	2	1962/10	1980	1962/10	1974	1962/10	1974
HUMBOLDT BAY	9	1963/09	1976	1963/09	1976	1963/09	1976
BIG ROCK POINT	5	1965/11	2001	1965/11	2005	1965/11	2005
HADDAM NECK	1	1968/01	2004	1968/01	2008	1968/01	2008
SAN ONOFRE 1	9	1968/01	1999	1968/01	2008	1968/01	2008
LACROSSE	5	1969/11	2002	1969/11	2009	1969/11	2009
OYSTER CREEK	2	1969/12	2004	1969/12	2009	1969/12	2009
NINE MILE PT 1	2	1969/12	2005	1970/04	2010	1970/04	2010
DRESDEN 2	5	1970/06	2008	1970/06	2010	1970/06	2010
GINNA	2	1970/07	2006	1970/07	2010	1970/07	2010
MILLSTONE 1	1	1970/12	2010	1970/12	2010	1970/12	2010
POINT BEACH 1	5	1970/12	2007	1970/12	2010	1970/12	2010
ROBINSON	4	1971/03	2007	1971/03	2011	1971/03	2011
MONTICELLO	5	1971/06	2007	1971/06	2011	1971/06	2011
DRESDEN 3	5	1971/11	2006	1971/11	2011	1971/11	2011
PALISADES	5	1971/12	2011	1971/12	2011	1971/12	2011
POINT BEACH 2	5	1972/10	2008	1972/10	2012	1972/10	2012
VT YANKEE	1	1972/11	2012	1972/11	2012	1972/11	2012
PILGRIM 1	1	1972/12	2008	1972/12	2012	1972/12	2012
TURKEY PT 3	4	1972/12	2007	1972/12	2012	1972/12	2012
MAINE YANKEE	1	1972/12	2008	1972/12	2012	1972/12	2012
SURRY 1	3	1972/12	2008	1972/12	2012	1972/12	2012
QUAD CITIES 1	5	1973/02	2007	1973/02	2013	1973/02	2013
QUAD CITIES 2	5	1973/03	2007	1973/03	2013	1973/03	2013
SURRY 2	3	1973/05	2008	1973/05	2013	1973/05	2013
OCONEE 1	4	1973/07	2013	1973/07	2013	1973/07	2013
TURKEY PT 4	4	1973/09	2007	1973/09	2013	1973/09	2013
FORT CALHOON	7	1973/09	2008	1973/09	2013	1973/09	2013
ZION 1	5	1973/12	2007	1973/12	2013	1973/12	2013
PRAIRIE IS 1	5	1973/12	2008	1973/12	2013	1973/12	2013
3 MILE IS 1	3	1974/06	2008	1974/06	2014	1974/06	2014
COOPER ST	9	1974/06	2004	1974/06	2014	1974/06	2014
KEWAUNEE	5	1974/06	2014	1974/06	2014	1974/06	2014
PEACHBOTTOM 2	3	1974/07	2008	1974/07	2014	1974/07	2014
INDIAN PT 2	2	1974/08	2006	1974/08	2014	1974/08	2014
BROWNS FERRY 1	4	1974/08	2014	1974/08	2014	1974/08	2014
ZION 2	5	1974/09	2008	1974/09	2014	1974/09	2014
OCONEE 2	4	1974/09	2013	1974/09	2014	1974/09	2014
ARK NUCLEAR 1	6	1974/12	2008	1974/12	2014	1974/12	2014
OCONEE 3	4	1974/12	2014	1974/12	2014	1974/12	2014
HATCH 1	4	1974/12	2009	1974/12	2014	1974/12	2014

TABLE A.1. Startup and Shutdown Dates with Federal Energy Region Shown for Utility, No New Orders, Upper Reference and Lower Reference Cases (cont'd)

Reactor	Fed. En. Region	Utility SU	Case SD	No New Orders and Lower Ref. Cases		Upper Ref. Case	
				SU	SD	SU	SD
PRAIRIE IS 2	5	1974/12	2008	1974/12	2014	1974/12	2014
PEACHBOTTOM 3	3	1974/12	2008	1974/12	2014	1974/12	2014
DUANE ARNOLD	7	1975/02	2010	1975/02	2015	1975/02	2015
BROWNS FERRY 2	4	1975/03	2014	1975/03	2015	1975/03	2015
RANCHO SECO 1	9	1975/04	2008	1975/04	2015	1975/04	2015
CALVERT CLIFFS 1	3	1975/05	2014	1975/05	2015	1975/05	2015
FITZPATRICK	2	1975/07	2015	1975/07	2015	1975/07	2015
COOK 1	5	1975/08	2009	1975/08	2015	1975/08	2015
BRUNSWICK 1	4	1975/11	2010	1975/11	2015	1975/11	2015
MILLSTONE 2	1	1975/12	2015	1975/12	2015	1975/12	2015
TROJAN	10	1976/05	2011	1976/05	2016	1976/05	2016
INDIAN PT 3	2	1976/08	2015	1976/08	2016	1976/08	2016
B VALLEY 1	3	1976/10	2010	1976/10	2016	1976/10	2016
ST LUCIE 1	4	1976/12	2010	1976/12	2016	1976/12	2016
BRUNSWICK 2	4	1977/03	2010	1977/03	2009	1977/03	2009
CRYSTAL R 3	4	1977/03	2016	1977/03	2017	1977/03	2017
BROWNS FERRY 3	4	1977/03	2017	1977/03	2017	1977/03	2017
CALVERT CLIFFS 2	3	1977/04	2016	1977/04	2017	1977/04	2017
SALEM 1	2	1977/06	2016	1977/06	2017	1977/06	2017
FARLEY 1	4	1977/12	2012	1977/12	2017	1977/12	2017
NORTH ANNA 1	3	1978/06	2011	1978/06	2018	1978/06	2018
COOK 2	5	1978/07	2009	1978/07	2018	1978/07	2018
DAVIS-BESSE 1	5	1978/07	2017	1978/07	2018	1978/07	2018
FT ST VRAIN	8	1979/07	2007	1979/07	2007	1979/07	2007
HATCH 2	4	1979/09	2012	1979/09	2019	1979/09	2019
ARK NUCLEAR 2	6	1980/03	2012	1980/03	2020	1980/03	2020
NORTH ANNA 2	3	1980/12	2011	1980/12	2020	1980/12	2020
FARLEY 2	4	1981/07	2012	1981/07	2021	1981/07	2021
SEQUOYAH 1	4	1981/07	2021	1981/07	2021	1981/07	2021
MCGUIRE 1	4	1981/09	2021	1981/09	2021	1981/09	2021
SALEM 2	2			1981/10	2021	1981/10	2021
SEQUOYAH 2	4	1982/06	2022	1982/06	2022	1982/06	2022
LASALLE 1	5	1982/10	2022	1982/10	2022	1982/10	2022
SUSQUEHANNA 1	3	1983/06	2022	1983/06	2023	1983/06	2023
ST LUCIE 2	4	1983/08	2023	1983/08	2027	1983/08	2023
SAN ONOFRE 2	9	1983/08	2012	1983/08	2023	1983/08	2023
SUMMER 1	4	1984/01	2024	1984/01	2024	1984/01	2024
MCGUIRE 2	4	1984/02	2023	1984/02	2024	1984/02	2024
SAN ONOFRE 3	9	1984/04	2013	1984/04	2024	1984/04	2024
LASALLE 2	5	1984/09	2023	1984/09	2024	1984/09	2024
CALLAWAY	7	1984/12	2024	1984/12	2024	1984/12	2024
WASH NUCLEAR 2	10	1984/12	2023	1984/12	2024	1984/12	2024

TABLE A.1. Startup and Shutdown Dates with Federal Energy Region Shown for Utility, No New Orders, Upper Reference and Lower Reference Cases (cont'd)

Reactor	Fed. En. Region	Utility SU	Case SD	No New Orders and Lower Ref. Cases		Upper Ref. Case	
				SU	SD	SU	SD
SUSQUEHANNA 2	3	1985/02	2024	1985/02	2025	1985/02	2025
DIABLO CANYON 1	9	1985/05	2025	1985/05	2025	1985/05	2025
ENRICO FERMI 2	5	1985/06	2025	1985/06	2025	1985/06	2025
CATAWBA 1	4	1985/06	2025	1985/06	2025	1985/06	2025
GRAND GULF 1	4	1985/07	2022	1985/07	2025	1985/07	2025
BYRON 1	5	1985/09	2024	1985/09	2025	1985/09	2025
WOLF CREEK	7	1985/09	2025	1985/09	2025	1985/09	2025
WATERFORD	6	1985/09	2024	1985/09	2025	1985/09	2025
PALO VERDE 1	9	1986/01	2024	1986/01	2026	1986/01	2026
LIMERICK 1	3	1986/02	2024	1986/02	2026	1986/02	2026
RIVER BEND	6	1986/03	2025	1986/03	2026	1986/03	2026
DIABLO CANYON-2	9	1985/06	2025	1986/04	2026	1986/04	2026
SHOREHAM	2	1983/06	2025	1988/08	2028	1986/08	2026
PERRY 1	5	1986/04	2026	1987/03	2027	1986/10	2026
MILLSTONE 3	1	1986/05	2025	1987/03	2027	1986/11	2026
PALO VERDE 2	9	1986/08	2025	1987/06	2027	1987/01	2027
HOPE CREEK	2	1986/04	2026	1987/05	2027	1987/02	2027
CATAWBA 2	4	1986/04	2026	1987/06	2027	1987/03	2027
COMANCHE 1	6	1987/09	2028	1988/03	2028	1987/03	2027
BRAIDWOOD 1	5	1987/02	2026	1987/08	2027	1987/04	2027
HARRIS 1	4	1986/12	2017	1987/09	2027	1987/05	2027
BYRON 2	5	1987/02	2026	1987/10	2027	1987/06	2027
CLINTON 1	5	1986/07	2026	1987/11	2027	1987/07	2027
SEABROOK	1	1986/06	2026	1988/02	2028	1987/10	2028
NINE MILE 2	2	1986/08	2026	1988/06	2028	1987/12	2027
VOGTLE 1	4	1987/02	2027	1988/06	2028	1988/01	2028
WATTS BAR 1	4	1985/06	2025	1986/07	2026	1988/01	2028
PALO VERDE 3	9	1987/05	2026	1988/07	2028	1988/03	2028
B VALLEY 2	3	1987/06	2026	1988/06	2028	1988/04	2028
SOUTH TEX UNIT 1	6	1987/10	2027	1988/10	2028	1988/04	2028
BRAIDWOOD 2	5	1987/06	2027	1988/10	2028	1988/06	2028
COMANCHE 2	6	1987/09	2028	1989/03	2029	1988/07	2028
VOGTLE 2	4	1988/04	2028	1989/11	2029	1989/05	2029
WATTS BAR 2	4	1987/06	2027	1989/05	2029	1989/05	2028
SOUTH TEX UNIT 2	6	1989/04	2028	1990/10	2030	1990/04	2030
LIMERICK 2	3	1990/01	2029			1992/08	2032
PERRY 2	5	1990/04	2030			1992/12	2032
WNP-3	10					1994/12	2034
BELLEFONTE 1	4	1989/06	2028	1996/06	2036	1995/09	2035
MIDLAND-2	5					1996/06	2036

TABLE A.1. Startup and Shutdown Dates with Federal Energy Region Shown for Utility, No New Orders, Upper Reference and Lower Reference Cases (cont'd)

Reactor	Fed. En. Region	Utility SU	Case SD	No New Orders and Lower Ref. Cases		Upper Ref. Case	
				SU	SD	SU	SD
BELLEFONTE 2	4	1990/06	2030	2001/06	2041	1998/06	2038
GRAND GULF 2	4					2001/06	2041
SEABROOK 2	1					2001/06	2041
WNP-1	10					2001/06	2042
MIDLAND-1	5					2003/06	2043

TABLE A.2. Startup and Shutdown Dates of Upper and Lower Reference Case Generic Reactors with Federal Energy Region Assignments

Reactor Name	Federal Energy Region	Lower Reference Case BWRs	
		Startup	Shutdown
B060111	5	2006/11	2046
B080107	5	2008/07	2048
B100101	2	2010/01	2050
B100207	1	2010/07	2050
B110105	4	2011/05	2051
B120101	7	2012/01	2052
B120211	2	2012/11	2052
B130101	5	2013/01	2053
B130207	5	2013/07	2053
B140101	2	2014/01	2054
B140201	4	2014/01	2054
B140301	4	2014/01	2054
B140411	6	2014/11	2054
B150101	5	2015/01	2055
B150205	7	2015/05	2055
B160101	5	2016/01	2056
B160212	3	2016/12	2056
B170101	1	2017/01	2057
B180101	5	2018/01	2058
B180211	3	2018/11	2058
B200106	4	2020/06	2060

Reactor Name	Federal Energy Region	Lower Reference Case PWRs	
		Startup	Shutdown
P060108	4	2006/08	2046
P070107	4	2007/07	2047
P080103	3	2008/03	2048
P090101	9	2009/01	2049
P090212	4	2009/12	2049
P100101	4	2010/01	2050
P100203	6	2010/03	2050
P110101	5	2011/01	2051
P110201	3	2011/01	2051
P110308	5	2011/08	2051
P120101	9	2012/01	2052
P120201	4	2012/01	2052
P120306	3	2012/06	2052
P130101	4	2013/01	2053
P130201	6	2013/01	2053
P130301	4	2013/01	2053

TABLE A.2. Startup and Shutdown Dates of Upper and Lower Reference Case Generic Reactors with Federal Energy Region Assignments (contd)

Reactor Name	Federal Energy Region	Lower Reference Case PWRs	
		Startup	Shutdown
P130402	1	2013/02	2053
P140101	3	2014/01	2054
P140201	9	2014/01	2054
P140301	5	2014/01	2054
P140401	10	2014/01	2054
P140501	5	2014/01	2054
P140601	4	2014/01	2054
P140701	3	2014/01	2054
P140807	9	2014/07	2054
P150101	1	2015/01	2055
P150201	4	2015/01	2055
P150301	3	2015/01	2055
P150401	4	2015/01	2055
P150508	2	2015/08	2055
P160101	4	2016/01	2056
P160201	9	2016/01	2056
P160312	4	2016/12	2056
P170101	6	2017/01	2057
P170201	5	2017/01	2057
P170301	4	2017/01	2057
P180101	2	2018/01	2058
P180201	4	2018/01	2058
P180308	9	2018/08	2058
P190107	4	2019/07	2059
P200101	5	2020/01	2060

TABLE A.2. Startup and Shutdown Dates of Upper and Lower Reference Case Generic Reactors with Federal Energy Region Assignments (contd)

Reactor Name	Federal Energy Region	Upper Reference Case BWRs	
		Startup	Shutdown
B010104	5	2001/10	2041
B020101	5	2002/07	2042
B020207	2	2003/01	2043
B030101	1	2003/07	2043
B040101	9	2004/07	2044
B040204	4	2004/10	2044
B050101	6	2005/07	2045
B050206	4	2005/12	2045
B060101	9	2006/07	2046
B060212	4	2007/05	2047
B070102	5	2007/08	2047
B080101	5	2008/07	2048
B080203	3	2008/09	2048
B090101	4	2009/07	2049
B090204	4	2009/10	2049
B100101	5	2010/07	2050
B100201	3	2010/07	2050
B100311	3	2011/05	2051
B110101	9	2011/07	2051
B110204	4	2011/10	2051
B120101	4	2012/07	2052
B120201	5	2012/07	2052
B120306	4	2012/12	2052
B130101	3	2013/07	2053
B130201	4	2013/07	2053
B130302	2	2013/08	2053
B140101	1	2014/07	2054
B140201	3	2014/07	2054
B140301	4	2014/07	2054
B140401	5	2014/07	2054
B140503	6	2014/09	2054
B150101	4	2015/07	2055
B150201	4	2015/07	2055
B150301	2	2015/07	2055
B150406	6	2015/12	2055
B160101	10	2016/07	2056
B160201	4	2016/07	2056
B160311	4	2017/05	2057
B170101	5	2017/07	2057
B170201	4	2017/07	2057
B170308	4	2018/02	2058
B180101	5	2018/07	2058

TABLE A.2. Startup and Shutdown Dates of Upper and Lower Reference Case Generic Reactors with Federal Energy Region Assignments (contd)

<u>Reactor Name</u>	<u>Federal Energy Region</u>	<u>Upper Reference Case BWRs</u>	
		<u>Startup</u>	<u>Shutdown</u>
B180204	3	2018/10	2058
B190101	6	2019/07	2059
B190207	4	2020/01	2060
B200101	4	2020/07	2060
B200206	4	2020/12	2060

<u>Reactor Name</u>	<u>Region</u>	<u>Upper Reference Case PWRs</u>	
		<u>Startup</u>	<u>Shutdown</u>
P010101	4	2001/07	2041
P010208	4	2002/02	2042
P020101	9	2002/07	2042
P020201	3	2002/07	2042
P020303	4	2002/09	2042
P030101	4	2003/07	2043
P030201	5	2003/07	2043
P030301	6	2003/07	2043
P040101	3	2004/07	2044
P040201	4	2004/07	2044
P040301	5	2004/07	2044
P040406	2	2004/12	2044
P050101	5	2005/07	2045
P050201	3	2005/07	2045
P050301	4	2005/07	2045
P060101	1	2006/07	2046
P060201	5	2006/07	2046
P060301	7	2006/07	2046
P060408	3	2007/02	2047
P070101	4	2007/07	2047
P070201	2	2007/07	2047
P070304	10	2007/10	2047
P080101	6	2008/07	2048
P080201	4	2008/07	2048
P080301	9	2008/07	2048
P080405	4	2008/11	2048
P090101	2	2009/07	2049
P090201	5	2009/07	2049
P090301	1	2009/07	2049
P090408	5	2010/02	2050
P100101	4	2010/07	2050
P100201	6	2010/07	2050

TABLE A.2. Startup and Shutdown Dates of Upper and Lower Reference Case Generic Reactors with Federal Energy Region Assignments (contd)

Reactor Name	Federal Energy Region	Upper Reference Case PWRs	
		Startup	Shutdown
P100301	4	2010/07	2050
P100401	9	2010/07	2050
P100507	2	2011/01	2051
P110101	5	2011/07	2051
P110201	4	2011/07	2051
P110301	7	2011/07	2051
P110401	1	2011/07	2051
P110508	5	2012/02	2052
P120101	4	2012/07	2052
P120201	6	2012/07	2052
P120301	9	2012/07	2052
P120401	3	2012/07	2052
P120501	2	2012/07	2052
P130101	1	2013/07	2053
P130201	5	2013/07	2053
P130301	9	2013/07	2053
P130401	4	2013/07	2053
P130501	5	2013/07	2053
P130601	10	2013/07	2053
P130703	6	2013/09	2053
P140101	9	2014/07	2054
P140201	3	2014/07	2054
P140301	5	2014/07	2054
P140401	4	2014/07	2054
P140501	4	2014/07	2054
P140601	5	2014/07	2054
P140701	7	2014/07	2054
P140801	2	2014/07	2054
P140901	4	2014/07	2054
P141004	4	2014/10	2054
P150101	5	2015/07	2055
P150201	4	2015/07	2055
P150301	1	2015/07	2055
P150401	3	2015/07	2055
P150501	3	2015/07	2055
P150601	9	2015/07	2055
P150701	5	2015/07	2055
P160101	4	2016/07	2056
P160201	5	2016/07	2056
P160301	9	2016/07	2056
P160401	5	2016/07	2056
P160501	2	2016/07	2056

TABLE A.2. Startup and Shutdown Dates of Upper and Lower Reference Case
Generic Reactors with Federal Energy Region Assignments (contd)

<u>Reactor Name</u>	<u>Federal Energy Region</u>	<u>Upper Reference Case PWRs Startup</u>	<u>Shutdown</u>
P160608	3	2017/02	2057
P170101	5	2017/07	2057
P170201	7	2017/07	2057
P170301	1	2017/07	2057
P170401	6	2017/07	2057
P170501	9	2017/07	2057
P170605	3	2017/11	2057
P180101	4	2018/07	2058
P180201	9	2018/07	2058
P180301	2	2018/07	2058
P180401	4	2018/07	2058
P180508	5	2019/02	2059
P190101	4	2019/07	2059
P190201	1	2019/07	2059
P190303	2	2019/09	2059
P200101	5	2020/07	2060
P200201	9	2020/07	2060
P200301	3	2020/07	2060
P200402	5	2020/08	2060

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges

REACTOR	ASSEMBLIES											MTIHM										
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
ARK NUCLEAR 1	378	59	0	52	0	52	54	0	47	0	49	175	27	0	24	0	24	25	0	22	0	23
ARK NUCLEAR 2	228	54	0	55	58	0	65	0	56	0	60	95	23	0	23	24	0	27	0	23	0	25
B VALLEY 1	218	63	58	0	62	81	0	65	81	61	0	100	29	28	0	29	28	0	30	28	28	0
B VALLEY 2	0	0	0	0	0	25	54	0	58	54	0	0	0	0	0	0	12	25	0	26	25	0
BELLEFONTE 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BELLEFONTE 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BIG ROCK 1	192	18	0	14	17	17	19	17	16	0	18	25	2	0	2	2	2	2	2	2	0	2
BRAIDWOOD 1	0	0	0	0	114	0	63	78	0	61	83	0	0	0	0	48	0	27	33	0	26	35
BRAIDWOOD 2	0	0	0	0	0	0	73	73	0	61	86	0	0	0	0	0	0	31	31	0	26	36
BROWNS FERRY1	1328	0	0	0	0	0	0	203	0	189	0	240	0	0	0	0	0	0	37	0	34	0
BROWNS FERRY2	1192	0	0	245	0	0	211	199	0	190	0	221	0	0	45	0	0	38	36	0	35	0
BROWNS FERRY3	1004	0	0	0	229	0	218	0	190	192	0	185	0	0	0	42	0	40	0	35	35	0
BRUNSWICK 1	840	0	149	0	153	158	0	183	0	155	183	158	0	27	0	29	29	0	30	0	29	30
BRUNSWICK 2	750	0	0	166	157	0	176	0	154	155	0	141	0	0	30	29	0	33	0	29	29	0
BYRON 1	0	0	88	75	0	75	84	0	70	70	0	0	0	29	32	0	32	36	0	30	30	0
BYRON 2	0	0	0	0	114	59	0	78	68	0	82	0	0	0	0	48	25	0	33	29	0	35
CALLAWAY 1	0	77	74	0	82	74	0	85	73	0	85	0	35	34	0	35	31	0	36	31	0	36
CALVERT CLF 1	542	71	0	78	0	78	0	82	0	77	0	288	27	0	29	0	30	0	31	0	29	0
CALVERT CLF 2	488	0	68	0	75	0	98	0	77	0	81	179	0	25	0	28	0	36	0	29	0	30
CATAWBA 1	0	59	53	58	54	0	61	58	53	0	58	0	25	22	24	23	0	28	24	22	0	24
CATAWBA 2	0	0	0	90	86	50	0	57	49	48	0	0	0	0	38	34	21	0	24	21	20	0
CLINTON 1	0	0	0	273	272	0	151	193	0	137	188	0	0	0	50	50	0	28	35	0	25	34
COMANCHE PK 1	0	0	0	88	75	49	51	54	49	50	52	0	0	0	41	35	23	23	22	20	20	21
COMANCHE PK 2	0	0	0	0	0	48	52	57	51	45	50	0	0	0	0	0	19	22	24	22	18	23
COOK 1	548	0	59	67	0	68	0	71	67	0	70	238	0	26	31	0	31	0	33	31	0	32
COOK 2	335	80	68	0	75	0	84	78	0	73	78	154	34	27	0	30	0	34	32	0	29	32
COOPER STN	874	137	0	115	95	98	112	102	100	94	101	164	25	0	21	17	18	20	19	18	17	18
CRYSTAL RVR 3	306	0	69	0	85	0	89	0	60	0	83	142	0	32	0	30	0	32	0	28	0	29
DAVIS-BESSE 1	197	0	49	52	0	52	59	0	51	51	0	93	0	23	24	0	24	28	0	24	24	0
DIABLO CANYON-1	0	63	0	70	88	0	104	0	87	0	95	0	29	0	32	40	0	48	0	40	0	44
DIABLO CANYON-2	0	0	53	0	68	88	0	95	0	87	0	0	0	24	0	31	40	0	44	0	40	0
DRESDEN 1	683	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	0
DRESDEN 2	1414	177	0	144	135	0	151	140	0	132	139	257	31	0	24	23	0	25	23	0	22	23
DRESDEN 3	1458	0	116	0	136	134	0	140	132	0	139	266	0	19	0	23	22	0	23	22	0	23
DUANE ARNOLD	698	0	99	104	0	102	122	0	99	100	0	129	0	18	19	0	19	22	0	18	18	0
ENRICO FERMI-2	0	0	0	201	249	0	267	0	247	0	257	0	0	0	37	46	0	49	0	45	0	47
FARLEY 1	349	59	0	80	58	0	69	81	0	80	81	160	27	0	28	27	0	32	28	0	28	28
FARLEY 2	188	63	53	0	81	58	0	63	57	0	63	86	29	24	0	28	27	0	29	26	0	29
FITZPATRICK	1012	0	144	141	0	151	173	0	147	147	0	189	0	26	26	0	28	31	0	26	26	0
FORT CALHOUN	347	0	34	38	0	37	39	0	38	31	0	128	0	12	13	0	13	14	0	13	11	0
GINNA	380	30	27	27	27	27	30	28	27	27	28	139	11	10	10	9	9	10	9	9	9	9
GRAND GULF 1	0	244	203	0	211	224	0	235	221	0	234	0	45	37	0	38	40	0	41	39	0	41
GRAND GULF 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HADDAM NECK	544	48	41	41	0	41	51	47	0	44	50	224	20	17	17	0	17	21	19	0	18	21
HARRIS 1	0	0	0	79	67	0	43	44	0	36	43	0	0	0	37	31	0	20	20	0	17	20
HATCH 1	1168	0	141	157	0	154	177	0	154	155	0	218	0	28	29	0	28	33	0	29	29	0
HATCH 2	546	175	139	0	165	155	0	163	153	0	162	100	32	25	0	29	29	0	30	28	0	30
HOPE CREEK	0	0	0	0	324	180	0	237	199	0	232	0	0	0	0	60	33	0	44	36	0	42
HUMBOLDT BAY	390	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES											MTIHM										
	Inv 1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Inv 1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
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	398	62	52	0	57	57	0	81	0	57	66	179	28	24	0	26	26	0	28	0	26	27
INDIAN PT 3	292	0	58	65	0	64	0	88	63	0	67	133	0	26	30	0	29	0	31	29	0	31
KEWAUNEE	352	25	37	41	33	31	36	33	31	31	33	130	9	14	16	13	12	14	13	12	12	13
LACROSSE	233	20	0	20	0	21	0	21	0	20	0	27	3	0	3	0	3	0	3	0	3	0
LASALLE CTY 1	132	0	247	0	161	166	0	194	164	0	194	24	0	45	0	29	34	0	35	33	0	35
LASALLE CTY 2	0	207	0	199	187	0	212	195	0	183	194	0	38	0	38	34	0	39	35	0	33	35
LIMERICK 1	0	0	250	0	187	175	0	198	176	0	191	0	0	46	0	34	32	0	35	31	0	34
LIMERICK 2	0	0	0	0	0	0	0	0	0	269	217	0	0	0	0	0	0	0	0	0	49	40
MAINE YANKEE	787	0	50	63	62	0	70	0	61	61	0	297	0	18	23	23	0	27	0	23	23	0
MCGUIRE 1	135	67	52	57	0	55	61	57	0	53	56	62	31	22	24	0	23	26	24	0	22	24
MCGUIRE 2	48	62	55	60	55	55	0	57	53	54	0	22	28	25	26	23	23	0	24	22	23	0
MIDLAND-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIDLAND-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MILLSTONE 1	1536	0	154	0	170	0	192	0	167	167	0	289	0	27	0	30	0	34	0	30	30	0
MILLSTONE 2	428	52	0	64	82	63	0	88	64	64	0	166	21	0	26	25	26	0	28	26	26	0
MILLSTONE 3	0	0	58	0	121	65	0	75	64	0	79	0	0	27	0	56	30	0	35	30	0	36
MONTICELLO	436	124	81	0	92	92	104	96	0	90	95	82	22	15	0	18	16	16	17	0	15	16
NINE MILE PT1	1244	185	0	173	0	162	0	173	0	147	0	235	33	0	31	0	29	0	30	0	26	0
NINE MILE PT2	0	0	0	0	0	200	0	245	0	186	0	0	0	0	0	0	37	0	45	0	34	0
NORTH ANNA 1	299	0	50	56	0	55	63	0	54	54	0	137	0	23	26	0	25	29	0	25	25	0
NORTH ANNA 2	174	60	45	0	55	55	0	50	54	0	57	80	28	21	0	25	26	0	27	25	0	26
OCONEE 1	578	55	45	50	0	51	50	53	0	50	53	268	25	21	23	0	24	27	25	0	23	25
OCONEE 2	412	55	45	0	51	51	0	53	50	50	0	191	25	21	0	24	24	0	25	23	23	0
OCONEE 3	388	0	45	50	51	0	57	53	0	50	53	180	0	21	23	24	0	26	25	0	23	25
OYSTER CRK 1	1204	163	0	147	125	0	142	153	0	144	0	227	29	0	26	22	0	25	27	0	25	0
PALISADES	545	0	53	0	58	58	0	61	0	57	0	219	0	21	0	23	23	0	24	0	22	0
PALO VERDE 1	0	0	47	70	61	108	61	57	53	53	56	0	0	20	28	25	46	27	25	23	23	24
PALO VERDE 2	0	0	51	126	98	50	48	54	50	48	57	0	0	22	51	39	21	21	24	22	21	25
PALO VERDE 3	0	0	0	0	76	57	52	57	46	44	63	0	0	0	0	32	23	21	24	21	19	27
PEACHBOTTOM 2	1464	0	190	200	0	186	219	0	189	190	0	272	0	35	36	0	34	39	0	34	34	0
PEACHBOTTOM 3	1496	0	170	0	184	0	207	192	0	177	190	279	0	31	0	34	0	38	35	0	31	34
PERRY 1	0	0	0	346	270	0	178	207	0	178	191	0	0	0	63	51	0	32	38	0	32	35
PERRY 2	0	0	0	0	0	0	0	0	0	209	0	0	0	0	0	0	0	0	0	0	38	0
PILGRIM 1	1128	178	0	169	0	162	0	171	0	165	0	213	32	0	30	0	29	0	30	0	29	0
POINT BEACH 1	403	33	32	32	30	28	30	28	27	27	28	161	13	13	13	11	10	11	10	10	10	10
POINT BEACH 2	384	32	32	32	30	27	31	28	27	27	28	153	13	13	11	11	10	11	10	10	10	10
PRAIRIE ISL 1	326	57	31	34	34	34	39	0	33	33	35	128	21	11	12	12	12	14	0	12	12	12
PRAIRIE ISL 2	374	37	0	33	33	34	38	35	33	33	35	146	14	0	11	12	12	13	12	12	12	12
QUAD CITIES 1	1209	171	131	0	137	136	0	142	144	0	141	228	30	23	0	24	24	0	25	25	0	25
QUAD CITIES 2	1270	141	0	144	137	0	155	141	0	134	140	241	25	0	25	24	0	27	25	0	24	25
RANCHO SECO-1	265	53	0	55	59	0	66	54	0	51	54	123	25	0	26	27	0	31	25	0	24	25
ROBINSON 2	222	44	36	52	0	40	46	0	51	40	0	96	19	16	21	0	17	20	0	21	17	0
RVR BEND 1	0	0	130	187	0	189	196	0	174	175	0	0	0	24	35	0	31	36	0	32	32	0
SALEM UNIT 2	115	48	0	80	74	0	82	72	0	64	71	53	22	0	37	34	0	38	33	0	29	33
SALEM 1	270	71	61	0	72	62	0	65	71	0	66	124	33	28	0	33	28	0	39	33	0	39
SAN ONOFRE 1	94	47	0	45	45	0	0	46	0	43	0	35	17	0	17	17	0	0	17	0	16	0
SAN ONOFRE 2	66	63	66	0	75	0	66	0	74	0	78	28	33	29	0	32	0	37	0	32	0	33
SAN ONOFRE 3	66	61	0	76	0	75	0	79	0	75	78	28	32	0	32	0	32	0	34	0	32	33

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES											MTIHM										
	Inv 1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Inv 1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
SEABROOK 1	0	0	0	0	76	44	53	0	49	45	58	0	0	0	0	35	20	24	0	23	21	27
SEABROOK 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEQUOYAH 1	212	0	0	68	0	68	0	71	67	0	71	97	0	0	31	0	31	0	33	31	0	33
SEQUOYAH 2	138	73	0	69	0	68	0	71	0	67	70	62	34	0	32	0	31	0	33	0	31	32
SHOREHAM	0	0	0	0	0	0	145	0	142	99	0	0	0	0	0	0	0	27	0	26	18	0
SOUTH TEXAS, UNIT 1	0	0	0	0	70	42	40	43	40	39	49	0	0	0	0	38	23	22	23	22	21	27
SOUTH TEXAS, UNIT 2	0	0	0	0	0	0	48	48	40	37	55	0	0	0	0	0	0	25	26	22	20	30
ST LUCIE 1	444	0	55	65	0	60	73	0	63	63	0	169	0	21	24	0	23	28	0	24	24	0
ST LUCIE 2	60	76	53	0	63	81	0	84	66	0	84	31	28	20	0	24	24	0	25	23	0	25
SUMMER 1	112	0	52	59	0	57	65	0	57	57	0	51	0	24	27	0	26	30	0	26	26	0
SURRY 1	474	47	0	45	45	44	0	47	43	0	47	215	21	0	21	21	20	0	22	20	0	22
SURRY 2	362	52	0	37	48	0	51	47	0	44	47	184	24	0	17	22	0	23	22	0	20	22
SUSQUEHANNA 1	192	272	183	0	204	187	0	199	188	0	190	35	50	34	0	36	33	0	35	32	0	34
SUSQUEHANNA 2	0	0	248	181	0	186	215	0	186	187	0	0	0	46	33	0	34	37	0	32	32	0
3 MILE ISL 1	200	0	58	67	0	61	86	0	61	61	0	97	0	27	31	0	28	31	0	28	26	0
TROJAN	319	32	49	55	42	40	46	42	40	40	42	147	15	22	25	19	18	21	19	18	18	19
TURKEY PT 3	424	0	43	41	0	44	48	0	40	40	0	192	0	20	19	0	20	21	0	18	18	0
TURKEY PT 4	378	63	39	0	44	41	0	42	40	0	43	171	20	18	0	20	19	0	19	18	0	20
VOGTLE 1	0	0	0	0	111	65	0	74	64	0	78	0	0	0	0	51	30	0	34	30	0	36
VOGTLE 2	0	0	0	0	0	64	0	75	64	0	77	0	0	0	0	0	30	0	35	30	0	36
VT YANKEE 1	1322	0	90	110	0	108	122	0	106	107	0	246	0	16	20	0	20	22	0	19	20	0
WASH NUCLEAR 2	0	122	151	145	126	135	153	145	134	134	142	0	22	28	27	23	24	27	26	24	24	25
WATERFORD 3	0	68	0	81	0	85	97	0	84	0	81	0	29	0	33	0	35	40	0	35	0	34
WATTS BAR 1	0	0	0	0	0	0	46	89	0	55	0	0	0	0	0	0	0	21	32	0	25	0
WATTS BAR 2	0	0	0	0	0	0	48	0	58	0	66	0	0	0	0	0	0	22	0	26	0	30
WNP-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNP-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WOLF CREEK 1	0	47	39	41	41	41	46	42	40	40	42	0	22	18	19	19	19	21	19	19	19	19
YANKEE-ROWE 1	341	0	36	34	0	31	39	0	30	0	35	83	0	8	8	0	7	9	0	7	0	8
ZION 1	510	50	67	0	61	61	0	63	60	0	63	233	26	26	0	28	28	0	29	27	0	29
ZION 2	503	0	81	62	0	64	89	0	60	60	0	229	0	28	28	0	29	32	0	27	27	0
BRUNSWICK 1 PWR	160	0	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0
BRUNSWICK 2 PWR	144	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	0	0	0
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	1527	0	0	0	0	0	0	0	0	0	0	290	0	0	0	0	0	0	0	0	0	0
MORRIS-PWR	350	0	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-B	85	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-P	120	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0
BWR GENERIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PWR GENERIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL GENERIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
ARK NUCLEAR 1	42	0	45	0	48	0	39	0	46	48	19	0	21	0	22	0	18	0	21	19
ARK NUCLEAR 2	50	0	55	0	58	55	0	62	0	47	21	0	23	0	24	23	0	26	0	20
B VALLEY 1	54	59	0	58	83	0	51	67	0	51	25	27	0	27	29	0	24	31	0	24
B VALLEY 2	46	73	0	45	62	0	44	0	58	41	21	34	0	21	29	0	20	0	27	19
BELLEFONTE 1	0	0	0	0	0	0	51	0	67	68	0	0	0	0	0	0	23	0	31	30
BELLEFONTE 2	0	0	0	38	0	74	56	0	79	52	0	0	0	17	0	34	26	0	36	24
BIG ROCK 1	15	10	16	15	10	16	0	18	16	14	2	2	2	2	2	2	0	2	2	2
BRAIDWOOD 1	0	83	88	0	73	72	0	53	67	0	0	35	29	0	31	30	0	22	28	0
BRAIDWOOD 2	0	87	88	0	78	73	0	69	67	0	0	37	29	0	33	31	0	29	28	0
BROWNS FERRY1	109	184	0	179	0	181	161	0	189	0	31	33	0	32	0	33	29	0	34	0
BROWNS FERRY2	170	183	0	179	0	182	162	0	190	0	31	33	0	32	0	33	29	0	34	0
BROWNS FERRY3	170	0	185	178	0	182	0	206	0	180	31	0	34	32	0	33	0	37	0	29
BRUNSWICK 1	0	148	149	0	158	0	131	167	0	129	0	28	28	0	30	0	24	31	0	24
BRUNSWICK 2	137	0	150	145	0	147	131	0	154	129	26	0	28	27	0	27	24	0	29	24
BYRON 1	62	67	0	66	72	0	60	76	0	59	26	28	0	28	30	0	25	32	0	25
BYRON 2	55	0	66	51	0	72	49	0	67	46	23	0	29	22	0	36	21	0	28	19
CALLAWAY 1	65	0	78	69	0	78	62	0	79	62	27	0	33	29	0	32	26	0	33	26
CALVERT CLF 1	68	0	74	0	78	0	65	0	70	0	26	0	28	0	29	0	24	0	29	0
CALVERT CLF 2	0	73	0	72	0	72	0	84	0	84	0	27	0	27	0	27	0	32	0	24
CATAWBA 1	47	51	52	0	55	51	45	58	0	45	20	22	22	0	23	22	19	25	0	19
CATAWBA 2	41	68	51	0	59	58	39	49	0	35	17	28	22	0	25	24	16	21	0	15
CLINTON 1	0	211	182	0	187	168	0	172	141	0	0	39	30	0	34	29	0	31	26	0
COMANCHE PK 1	44	64	50	43	55	48	48	51	43	45	18	26	20	17	22	19	19	21	17	18
COMANCHE PK 2	43	61	51	43	54	51	41	51	52	37	17	25	21	17	22	21	17	21	21	15
COOK 1	59	0	64	0	68	64	0	73	0	56	27	0	29	0	31	29	0	34	0	26
COOK 2	0	76	0	69	75	0	62	0	73	62	0	26	0	28	30	0	25	0	29	25
COOPER STN	86	90	94	87	96	88	79	101	92	78	16	16	17	16	17	16	14	18	17	14
CRYSTAL RVR 3	0	58	0	57	0	57	0	65	0	51	0	27	0	26	0	26	0	30	0	24
DAVIS-BESSE 1	45	49	0	47	52	0	42	55	0	42	21	23	0	22	24	0	20	26	0	20
DIABLO CANYON-1	0	83	0	85	0	82	0	98	0	72	0	38	0	39	0	38	0	45	0	33
DIABLO CANYON-2	80	0	84	0	92	0	73	0	90	0	37	0	39	0	42	0	34	0	41	0
DRESDEN 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRESDEN 2	0	128	128	0	136	125	0	142	132	0	0	21	21	0	23	21	0	24	22	0
DRESDEN 3	117	0	128	124	0	125	112	0	131	109	20	0	21	21	0	21	19	0	22	18
DUANE ARNOLD	94	96	0	95	109	0	86	108	0	89	17	17	0	17	19	0	15	19	0	16
ENRICO FERMI-2	214	0	236	0	247	0	206	259	0	204	39	0	43	0	45	0	37	47	0	37
FARLEY 1	0	58	56	0	62	54	0	65	58	0	0	27	26	0	29	25	0	30	27	0
FARLEY 2	51	0	58	54	0	58	48	0	60	48	24	0	27	25	0	27	22	0	28	22
FITZPATRICK	134	140	0	137	150	0	124	159	0	123	24	25	0	24	27	0	22	28	0	22
FORT CALHOUN	32	38	0	33	38	0	31	41	0	30	12	13	0	12	14	0	11	15	0	11
GINNA	23	25	26	25	27	25	23	29	27	22	8	8	9	8	9	8	8	10	9	7
GRAND GULF 1	197	0	215	209	0	211	188	0	220	184	35	0	38	37	0	37	33	0	39	32
GRAND GULF 2	0	0	0	0	0	0	209	306	0	128	0	0	0	0	0	0	38	58	0	23
HADDAM NECK	0	42	40	42	0	42	38	48	0	37	0	17	16	17	0	17	16	20	0	15
HARRIS 1	0	53	0	33	45	0	32	39	0	29	0	25	0	15	21	0	15	18	0	13
HATCH 1	138	140	0	145	156	0	130	166	0	129	26	27	0	27	29	0	24	31	0	24
HATCH 2	136	0	148	144	0	146	130	0	153	128	25	0	27	27	0	27	24	0	28	24
HOPE CREEK	169	0	215	162	0	216	158	0	210	144	31	0	39	29	0	39	28	0	38	26

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
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	0	54	0	54	58	0	48	0	57	48	0	24	0	24	26	0	22	0	26	22
INDIAN PT 3	0	61	61	0	65	0	54	89	0	53	0	28	28	0	30	0	25	31	0	24
KEWAUNEE	27	30	30	29	32	29	26	34	31	26	10	11	11	11	12	11	10	13	12	10
LACROSSE	18	0	19	0	21	0	16	0	20	0	3	0	3	0	3	0	3	0	3	0
LASALLE CTY 1	163	0	177	173	0	175	158	0	183	153	30	0	32	31	0	32	26	0	33	28
LASALLE CTY 2	0	176	177	0	188	175	0	199	183	0	0	32	32	0	34	32	0	36	33	0
LIMERICK 1	181	0	175	170	0	171	163	0	180	160	29	0	31	30	0	30	27	0	32	27
LIMERICK 2	0	284	0	174	233	0	181	0	236	110	0	52	0	31	41	0	32	0	42	20
MAINE YANKEE	54	59	0	57	63	0	52	67	0	51	21	22	0	22	24	0	20	25	0	19
MCQUIRE 1	47	51	0	50	55	51	0	58	53	45	20	22	0	21	23	22	0	25	22	19
MCQUIRE 2	47	51	52	50	0	50	45	58	0	45	20	22	22	21	0	21	19	25	0	19
MIDLAND-1	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0
MIDLAND-2	0	0	60	0	59	58	0	54	57	0	0	0	28	0	27	27	0	25	26	0
MILLSTONE 1	149	0	163	0	171	160	0	180	0	140	26	0	29	0	30	28	0	32	0	25
MILLSTONE 2	57	59	58	0	62	58	0	66	60	0	23	24	24	0	25	24	0	27	24	0
MILLSTONE 3	58	0	66	57	0	76	64	0	67	58	27	0	31	26	0	32	30	0	31	27
MONTICELLO	60	0	67	63	92	0	77	98	90	0	14	0	15	14	16	0	13	17	15	0
NINE MILE PT1	141	0	145	0	159	0	131	0	153	0	24	0	25	0	27	0	22	0	26	0
NINE MILE PT2	180	0	210	0	222	0	165	0	221	0	32	0	23	0	38	0	28	0	38	0
NORTH ANNA 1	40	52	0	50	55	0	45	58	0	45	22	24	0	23	25	0	21	27	0	21
NORTH ANNA 2	49	0	52	50	0	51	45	0	53	45	23	0	24	23	0	24	21	0	24	21
OCONEE 1	45	48	0	47	52	48	0	54	50	42	21	22	0	22	24	22	0	25	23	19
OCONEE 2	45	48	0	47	51	48	0	55	42	42	21	22	0	22	24	22	0	25	19	19
OCONEE 3	0	48	49	47	0	47	42	0	50	42	0	22	23	22	0	22	19	0	23	19
OYSTER CRK 1	130	120	0	120	0	139	121	0	147	119	23	21	0	23	0	25	21	0	26	21
PALISADES	50	0	55	53	0	54	0	61	58	0	19	0	21	21	0	21	0	24	22	0
PALO VERDE 1	47	51	52	50	55	51	45	58	53	45	21	22	23	22	24	22	20	25	23	20
PALO VERDE 2	44	66	50	43	57	51	49	48	43	44	19	29	22	19	25	22	21	21	19	19
PALO VERDE 3	40	67	52	39	59	55	39	52	52	35	17	29	23	17	26	24	17	23	23	15
PEACHBOTTOM 2	169	183	0	179	195	0	161	205	0	158	30	32	0	32	35	0	29	36	0	28
PEACHBOTTOM 3	0	172	177	0	182	172	0	194	179	0	0	36	31	0	32	30	0	34	32	0
PERRY 1	0	231	196	0	209	169	0	203	183	0	0	42	36	0	38	31	0	37	30	0
PERRY 2	223	244	0	195	260	0	200	333	0	127	41	45	0	36	47	0	36	61	0	23
PILGRIM 1	0	154	0	152	0	156	0	173	0	136	0	27	0	27	0	28	0	30	0	24
POINT BEACH 1	23	25	26	26	26	25	23	29	26	23	8	9	9	9	10	9	8	10	9	8
POINT BEACH 2	24	26	25	25	27	25	22	28	27	22	9	9	9	9	10	9	8	10	10	8
PRAIRIE ISL 1	29	32	32	32	34	0	28	36	33	28	10	11	11	11	12	0	10	13	12	10
PRAIRIE ISL 2	0	32	32	31	34	32	28	37	33	28	0	11	11	11	12	11	10	13	12	10
QUAD CITIES 1	118	0	129	126	0	127	113	0	134	112	21	0	23	22	0	22	20	0	24	20
QUAD CITIES 2	0	129	128	0	136	128	0	145	133	0	0	23	23	0	24	23	0	26	23	0
RANCHO SECO-1	0	46	49	0	52	45	0	55	50	0	0	21	23	0	24	21	0	25	23	0
ROBINSON 2	36	48	0	37	41	0	43	44	40	0	16	20	0	16	18	0	18	19	17	0
RVR BEND 1	155	167	0	164	180	0	148	189	0	145	29	31	0	30	33	0	27	35	0	27
SALEM UNIT 2	0	77	72	0	76	67	0	77	76	0	0	35	33	0	35	31	0	35	32	0
SALEM 1	60	0	72	70	0	67	59	0	70	59	28	0	33	32	0	31	27	0	32	27
SAN ONOFRE 1	39	0	42	0	44	0	37	0	44	0	14	0	16	0	16	0	14	0	16	0

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
SAN ONOFRE 2	66	0	66	0	76	0	63	0	74	0	28	0	28	0	32	0	27	0	32	0
SAN ONOFRE 3	0	71	0	64	0	71	0	81	0	63	0	30	0	27	0	30	0	35	0	27
SEABROOK 1	42	0	52	39	54	51	38	0	50	35	19	0	24	18	25	24	18	0	23	16
SEABROOK 2	0	0	0	0	0	0	0	61	58	60	0	0	0	0	0	0	0	28	27	28
SEQUOYAH 1	0	64	65	0	60	0	57	73	0	56	0	29	30	0	31	0	26	34	0	26
SEQUOYAH 2	0	64	0	63	69	0	56	0	67	56	0	30	0	29	32	0	26	0	31	26
SHOREHAM	122	170	0	115	136	0	130	115	0	128	22	31	0	21	25	0	24	21	0	23
SOUTH TEXAS, UNIT 1	35	50	41	35	50	46	39	39	35	36	19	31	22	19	27	24	21	21	19	19
SOUTH TEXAS, UNIT 2	33	59	42	32	51	48	30	43	42	28	18	32	23	17	28	26	18	23	23	15
ST LUCIE 1	50	61	0	59	66	0	54	69	0	53	21	23	0	23	25	0	21	26	0	20
ST LUCIE 2	53	0	58	57	0	58	51	0	60	50	21	0	23	22	0	23	20	0	23	19
SUMMER 1	50	54	0	53	59	0	48	62	0	47	23	25	0	25	27	0	22	29	0	22
SURRY 1	39	0	43	41	0	41	37	0	43	36	18	0	20	19	0	19	17	0	20	17
SURRY 2	0	43	43	0	44	42	0	48	44	0	0	20	20	0	20	19	0	22	20	0
SUSQUEHANNA 1	168	0	182	175	0	177	150	0	187	156	29	0	31	30	0	31	27	0	32	27
SUSQUEHANNA 2	166	180	0	175	192	0	159	201	0	158	29	31	0	30	33	0	27	35	0	27
3 MILE ISL 1	53	0	50	50	0	50	51	0	60	51	25	0	27	26	0	27	24	0	28	24
TROJAN	35	39	39	38	41	38	34	44	40	34	16	16	18	18	19	18	16	20	18	16
TURKEY PT 3	35	38	0	38	41	0	34	44	0	33	16	17	0	17	19	0	16	20	0	15
TURKEY PT 4	30	0	39	38	0	38	0	44	40	0	17	0	16	17	0	17	0	20	18	0
VOGTLE 1	50	0	60	57	0	67	63	0	67	50	27	0	31	26	0	31	29	0	31	27
VOGTLE 2	59	0	60	56	0	67	65	0	67	58	27	0	31	26	0	31	30	0	31	27
VT YANKEE 1	95	102	0	99	110	0	90	115	0	88	17	19	0	18	20	0	17	21	0	16
WASH NUCLEAR 2	120	129	130	125	130	128	113	145	134	111	21	23	23	22	24	23	20	28	24	20
WATERFORD 3	74	0	74	79	0	73	71	0	77	71	31	0	31	33	0	30	30	0	32	30
WATTS BAR 1	50	83	0	50	0	72	54	0	55	0	28	38	0	23	0	33	25	0	25	0
WATTS BAR 2	55	0	62	0	74	68	0	60	0	55	25	0	29	0	34	31	0	28	0	25
WNP-1	0	0	0	0	0	0	0	0	71	44	0	0	0	0	0	0	0	0	32	20
WNP-3	57	111	62	51	76	68	53	108	73	32	24	45	25	22	33	30	23	47	32	14
WOLF CREEK 1	30	38	30	38	41	38	34	44	40	33	17	18	18	18	19	18	16	20	19	15
YANKEE-ROWE 1	27	0	76	0	0	0	0	0	0	0	6	0	17	0	0	0	0	0	0	0
ZION 1	53	0	50	57	0	57	51	0	60	51	24	0	27	26	0	26	23	0	27	23
ZION 2	53	58	0	56	61	0	51	86	0	56	24	27	0	26	28	0	23	30	0	23
BRUNSWICK 1 PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRUNSWICK 2 PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BWR GENERIC	0	0	0	0	0	0	0	202	213	537	0	0	0	0	0	0	0	37	39	97
PWR GENERIC	0	0	0	0	0	0	0	76	322	351	0	0	0	0	0	0	0	35	148	161
TOTAL GENERIC	0	0	0	0	0	0	0	278	535	888	0	0	0	0	0	0	0	72	187	258

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES										MTIHM									
	2005	2007	2008	2009	2010	2011	2012	2013	2014	2015	2005	2007	2008	2009	2010	2011	2012	2013	2014	2015
ARK NUCLEAR 1	0	50	0	47	0	47	47	0	39	177	0	23	0	22	0	22	22	0	18	82
ARK NUCLEAR 2	0	50	47	0	50	0	55	57	0	45	0	24	20	0	24	0	23	24	0	19
B VALLEY 1	63	0	49	61	64	0	58	60	0	52	29	0	23	28	30	0	27	28	0	24
B VALLEY 2	0	55	37	0	50	55	0	49	43	0	0	25	17	0	23	25	0	23	20	0
BELLEFONTE 1	0	72	59	0	65	69	0	54	0	61	0	33	27	0	30	31	0	25	0	28
BELLEFONTE 2	0	69	59	0	61	0	59	56	0	68	0	31	27	0	28	0	27	26	0	31
BIG ROCK 1	84	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
BRAIDWOOD 1	59	64	0	56	58	0	64	58	0	51	25	27	0	24	25	0	27	24	0	22
BRAIDWOOD 2	72	64	0	71	58	0	62	56	0	52	30	27	0	30	25	0	28	24	0	22
BROWNS FERRY1	201	0	155	192	0	189	0	188	156	764	36	0	28	35	0	34	0	34	28	139
BROWNS FERRY2	200	0	156	191	0	190	0	188	156	764	36	0	28	35	0	34	0	34	28	139
BROWNS FERRY3	201	0	156	0	201	190	0	188	0	158	36	0	28	0	36	34	0	34	0	29
BRUNSWICK 1	161	0	126	552	0	0	0	0	0	0	30	0	24	103	0	0	0	0	0	0
BRUNSWICK 2	0	182	126	0	161	153	0	152	126	552	0	30	24	0	30	29	0	28	24	103
BYRON 1	73	0	57	70	0	70	89	0	57	58	31	0	24	30	0	30	29	0	24	25
BYRON 2	0	63	42	0	58	61	0	56	49	0	0	27	18	0	25	28	0	24	21	0
CALLAWAY 1	0	84	66	0	84	73	0	60	60	0	0	36	25	0	36	31	0	34	25	0
CALVERT CLF 1	81	0	82	0	81	0	75	0	61	216	30	0	23	0	30	0	28	0	23	82
CALVERT CLF 2	0	80	0	75	0	77	0	76	0	63	0	30	0	28	0	29	0	29	0	24
CATAWBA 1	55	56	0	54	58	55	51	0	44	46	23	24	0	23	24	23	22	0	19	19
CATAWBA 2	56	49	41	0	45	47	48	0	30	41	24	21	17	0	19	20	20	0	16	17
CLINTON 1	180	123	0	175	138	0	152	119	0	130	33	22	0	32	25	0	28	22	0	24
COMANCHE PK 1	59	37	39	58	42	46	50	36	38	44	24	15	16	23	17	19	20	15	15	18
COMANCHE PK 2	54	49	34	52	43	50	50	44	40	40	22	20	14	21	17	20	20	18	16	15
COOK 1	69	0	55	67	0	66	0	66	54	193	32	0	25	31	0	30	0	30	25	89
COOK 2	0	76	60	0	77	0	72	72	0	60	0	31	24	0	31	0	29	29	0	24
COOPER STN	98	91	73	84	99	84	88	84	822	0	18	17	13	15	16	15	16	15	113	0
CRYSTAL RVR 3	0	63	0	60	0	59	0	60	0	48	0	29	0	28	0	27	0	28	0	22
DAVIS-BESSE 1	53	0	41	50	0	50	50	0	41	42	25	0	19	23	0	23	23	0	19	19
DIABLO CANYON-1	0	94	0	88	0	89	0	85	0	76	0	43	0	40	0	41	0	39	0	35
DIABLO CANYON-2	91	0	75	0	96	0	89	0	70	0	42	0	34	0	41	0	41	0	32	0
DRESDEN 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRESDEN 2	137	137	0	135	724	0	0	0	0	0	23	23	0	23	121	0	0	0	0	0
DRESDEN 3	0	137	107	0	137	131	724	0	0	0	0	23	18	0	23	22	121	0	0	0
DUANE ARNOLD	106	0	82	99	0	100	99	0	83	86	19	0	15	18	0	18	18	0	15	15
ENRICO FERMI-2	0	252	0	247	252	0	238	0	197	0	0	46	0	45	46	0	43	0	38	0
FARLEY 1	63	61	0	60	61	0	50	60	0	40	29	28	0	28	28	0	27	28	0	22
FARLEY 2	0	63	47	0	63	58	0	60	47	0	0	29	22	0	29	27	0	28	22	0
FITZPATRICK	153	0	122	146	0	146	142	0	120	122	27	0	22	26	0	26	25	0	21	22
FORT CALHOUN	39	0	29	36	0	38	34	133	0	0	14	0	10	13	0	13	12	48	0	0
GINNA	28	28	22	26	28	121	0	0	0	0	9	9	7	9	9	40	0	0	0	0
GRAND GULF 1	0	231	180	0	232	220	0	217	180	0	0	41	32	0	41	39	0	38	32	0
GRAND GULF 2	287	0	175	289	0	244	247	0	225	239	51	0	31	47	0	43	44	0	40	42
HADDAM NECK	46	46	157	0	0	0	0	0	0	0	19	19	85	0	0	0	0	0	0	0
HARRIS 1	46	0	26	45	0	39	39	0	31	34	21	0	12	21	0	18	18	0	14	16
HATCH 1	182	0	126	152	0	152	150	0	685	0	30	0	23	28	0	28	28	0	127	0
HATCH 2	0	159	124	0	180	152	0	152	125	0	0	30	23	0	30	28	0	28	23	0
HOPE CREEK	0	199	134	0	180	192	0	180	155	0	0	36	24	0	33	35	0	33	28	0

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES										MTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
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	0	60	0	55	60	0	54	0	238	0	0	27	0	25	27	0	24	0	107	0
INDIAN PT 3	0	87	52	0	87	0	81	82	0	52	0	31	24	0	31	0	28	28	0	24
KEWAUNEE	33	33	25	30	32	31	31	29	25	121	13	13	9	11	12	12	12	11	9	46
LACROSSE	21	0	16	72	0	0	0	0	0	0	3	0	3	8	0	0	0	0	0	0
LASALLE CTY 1	0	191	147	0	190	182	0	183	149	0	0	35	27	0	35	33	0	33	27	0
LASALLE CTY 2	190	191	0	185	192	0	178	181	0	153	35	35	0	34	35	0	32	33	0	28
LIMERICK 1	0	187	146	0	188	179	0	177	147	0	0	33	28	0	33	32	0	31	26	0
LIMERICK 2	0	255	0	227	158	0	218	0	183	204	0	45	0	46	28	0	38	0	32	36
MAINE YANKEE	83	0	50	59	0	80	217	0	0	0	24	0	19	22	0	23	82	0	0	0
MCGUIRE 1	58	0	43	54	55	0	51	53	44	44	24	0	18	23	23	0	22	22	19	19
MCGUIRE 2	57	58	43	0	58	54	51	0	44	44	24	24	18	0	24	23	22	0	19	19
MIDLAND-1	31	28	24	31	25	28	29	28	27	29	10	9	8	10	8	9	10	9	9	10
MIDLAND-2	80	52	44	0	47	53	0	50	52	54	28	24	20	0	22	25	0	23	24	25
WILLSTONE 1	0	175	136	0	178	580	0	0	0	0	0	31	24	0	31	103	0	0	0	0
WILLSTONE 2	84	83	0	59	84	0	58	59	0	50	28	28	0	24	28	0	24	24	0	28
WILLSTONE 3	0	84	52	0	58	59	0	58	50	0	0	30	24	0	27	27	0	28	23	0
MONTICELLO	95	95	73	91	0	91	484	0	0	0	18	18	13	18	0	18	83	0	0	0
NINE MILE PT1	161	0	127	0	159	532	0	0	0	0	28	0	22	0	27	90	0	0	0	0
NINE MILE PT2	239	0	140	0	190	0	204	0	181	0	41	0	24	0	32	0	35	0	27	0
NORTH ANNA 1	55	0	43	0	58	53	0	50	42	0	25	0	20	0	26	24	0	23	19	0
NORTH ANNA 2	0	56	44	0	57	53	0	50	42	0	0	26	20	0	28	24	0	23	19	0
OCONEE 1	0	52	40	50	53	0	50	49	177	0	0	24	19	23	25	0	23	23	82	0
OCONEE 2	0	53	41	0	53	50	48	0	41	177	0	25	19	0	25	23	22	0	19	82
OCONEE 3	52	0	40	49	0	50	48	49	177	0	24	0	19	23	0	23	22	23	82	0
OYSTER CRK 1	0	154	117	580	0	0	0	0	0	0	0	27	21	99	0	0	0	0	0	0
PALISADES	59	0	47	59	0	57	204	0	0	0	23	0	18	23	0	22	79	0	0	0
PALO VERDE 1	58	58	43	54	58	54	53	54	45	45	24	24	19	24	24	24	23	24	20	20
PALO VERDE 2	55	38	41	55	43	46	48	38	40	42	24	17	18	24	19	20	21	18	17	18
PALO VERDE 3	58	49	32	53	45	48	48	45	39	41	24	21	14	23	20	21	21	20	17	18
PEACHBOTTOM 2	200	0	158	191	0	189	187	0	158	764	35	0	28	34	0	34	33	0	28	135
PEACHBOTTOM 3	188	186	0	181	189	0	177	177	764	0	33	33	0	32	34	0	31	31	135	0
PERRY 1	214	146	0	208	181	0	186	137	0	150	39	27	0	37	29	0	34	25	0	27
PERRY 2	285	0	185	253	0	232	245	0	211	0	52	0	30	48	0	42	45	0	38	0
PILGRIM 1	0	0	131	0	169	0	158	580	0	0	0	0	23	0	30	0	28	103	0	0
POINT BEACH 1	29	28	22	25	29	121	0	0	0	0	10	10	8	9	10	43	0	0	0	0
POINT BEACH 2	28	27	22	25	28	25	25	121	0	0	10	10	8	9	10	9	9	43	0	0
PRAIRIE ISL 1	38	35	27	33	36	33	33	33	120	0	13	12	10	12	13	12	12	12	43	0
PRAIRIE ISL 2	0	35	27	32	35	33	33	33	28	120	0	12	10	11	12	12	12	12	10	43
QUAD CITIES 1	0	139	100	0	140	134	0	132	712	0	0	25	19	0	25	24	0	23	128	0
QUAD CITIES 2	140	139	0	137	138	0	133	133	724	0	25	24	0	24	24	0	23	23	128	0
RANCHO SECO-1	51	54	0	51	50	0	50	51	0	41	24	25	0	24	23	0	23	24	0	19
ROBINSON 2	52	42	0	51	42	50	157	0	0	0	21	18	0	21	18	20	87	0	0	0
RVR BEND 1	182	0	143	175	0	173	171	0	142	146	34	0	28	32	0	32	32	0	26	27
SALEM UNIT 2	73	73	0	71	74	0	88	89	0	58	34	34	0	33	34	0	31	33	0	27
SALEM 1	0	74	57	0	74	70	0	69	58	0	0	34	28	0	34	32	0	32	27	0
SAN ONOFRE 1	48	0	38	157	0	0	0	0	0	0	17	0	13	58	0	0	0	0	0	0

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES										MTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
SAN ONOFRE 2	77	0	60	74	0	75	0	74	0	83	33	0	26	32	0	32	0	32	0	27
SAN ONOFRE 3	78	0	61	0	78	0	73	0	82	0	33	0	26	0	33	0	31	0	28	0
SEABROOK 1	56	48	33	0	44	48	49	43	38	0	26	22	15	0	20	22	23	20	18	0
SEABROOK 2	0	54	48	61	54	58	0	52	55	57	0	25	22	28	25	27	0	24	25	28
SEQUOYAH 1	0	76	54	0	70	0	65	68	0	55	0	32	25	0	32	0	30	30	0	25
SEQUOYAH 2	0	71	55	0	71	0	65	66	0	53	0	33	25	0	33	0	30	30	0	24
SHOREHAM	128	0	119	149	0	132	113	0	113	131	23	0	22	27	0	24	21	0	21	24
SOUTH TEXAS, UNIT 1	46	38	31	44	34	36	39	29	30	33	25	16	17	24	18	19	21	18	18	18
SOUTH TEXAS, UNIT 2	44	40	27	42	36	39	38	35	30	32	24	22	15	23	19	21	21	19	16	17
ST LUCIE 1	66	0	51	61	0	62	61	0	49	53	25	0	19	23	0	24	23	0	19	20
ST LUCIE 2	0	63	48	0	63	60	0	59	49	0	0	25	19	0	25	23	0	23	19	0
SUMMER 1	59	0	46	56	0	56	55	0	46	48	27	0	21	26	0	26	26	0	21	22
SURRY 1	0	46	0	42	46	0	40	157	0	0	0	21	0	19	21	0	18	72	0	0
SURRY 2	48	0	35	42	0	43	40	156	0	0	21	0	16	19	0	20	18	72	0	0
SUSQUEHANNA 1	0	195	154	0	195	186	0	185	153	0	0	34	27	0	34	32	0	32	26	0
SUSQUEHANNA 2	197	0	154	191	0	186	186	0	153	158	34	0	27	33	0	32	32	0	26	27
3 MILE ISL 1	0	63	49	0	63	59	0	59	49	176	0	29	23	0	29	27	0	27	23	62
TROJAN	42	42	32	40	42	40	40	40	33	34	19	19	15	18	19	18	18	18	15	16
TURKEY PT 3	40	0	33	34	0	38	34	157	0	0	18	0	15	16	0	17	16	72	0	0
TURKEY PT 4	42	42	0	36	41	0	36	38	157	0	19	19	0	17	19	0	17	17	72	0
VOGTLE 1	0	65	51	0	58	59	0	57	52	0	0	30	24	0	27	27	0	26	24	0
VOGTLE 2	0	63	51	0	58	59	0	57	51	0	0	29	24	0	27	27	0	26	24	0
VT YANKEE 1	112	0	87	100	0	106	106	368	0	0	21	0	16	26	0	19	19	68	0	0
WASH NUCLEAR 2	139	139	109	135	141	133	131	131	109	113	24	24	19	24	25	23	23	23	19	20
WATERFORD 3	0	61	0	64	61	0	63	75	0	70	0	34	0	35	34	0	34	31	0	29
WATTS BAR 1	65	61	0	69	63	0	59	0	56	49	30	28	0	32	24	0	27	0	26	23
WATTS BAR 2	69	0	49	69	0	58	0	45	46	0	32	0	23	32	0	27	0	21	21	3
WNP-1	0	106	63	0	71	96	0	79	0	90	0	48	20	0	32	44	0	36	0	41
WNP-3	90	82	43	89	46	68	67	52	54	62	43	36	19	36	20	36	29	23	24	27
WOLF CREEK 1	42	42	32	40	42	40	39	40	33	34	19	19	15	19	19	19	18	19	15	16
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	0	63	49	0	63	60	0	58	193	0	0	29	22	0	29	27	0	27	68	0
ZION 2	64	0	49	61	0	60	59	0	241	0	29	0	22	28	0	27	27	0	110	0
BRUNSWICK 1 PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRUNSWICK 2 PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BWR GENERIC	1120	781	1001	1980	1404	1754	2618	2384	2883	3588	205	143	183	358	254	319	474	436	523	655
PWR GENERIC	713	801	816	1251	1373	1441	1901	2117	2273	2870	325	360	364	554	604	633	832	918	995	1250
TOTAL GENERIC	1833	1582	1817	3231	2777	3195	4519	4501	5156	6458	530	503	547	912	858	952	1306	1354	1518	1905

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
ARK NUCLEAR 1	0	0	0	0	0	0	0	0	0	0
ARK NUCLEAR 2	0	55	57	0	55	0	23	24	0	23
B VALLEY 1	53	157	0	0	0	24	72	0	0	0
B VALLEY 2	47	51	0	38	52	22	24	0	18	24
BELLEFONTE 1	65	0	72	63	0	30	0	33	29	0
BELLEFONTE 2	54	0	68	62	0	25	0	31	28	0
BIG ROCK 1	0	0	0	0	0	0	0	0	0	0
BRAIDWOOD 1	52	0	60	44	0	22	0	25	19	0
BRAIDWOOD 2	52	0	64	43	0	22	0	27	18	0
BROWNS FERRY1	0	0	0	0	0	0	0	0	0	0
BROWNS FERRY2	0	0	0	0	0	0	0	0	0	0
BROWNS FERRY3	184	784	0	0	0	30	139	0	0	0
BRUNSWICK 1	0	0	0	0	0	0	0	0	0	0
BRUNSWICK 2	0	0	0	0	0	0	0	0	0	0
BYRON 1	0	60	71	0	67	0	28	30	0	28
BYRON 2	52	58	0	44	59	22	25	0	19	25
CALLAWAY 1	67	69	0	60	71	28	29	0	25	30
CALVERT CLF 1	0	0	0	0	0	0	0	0	0	0
CALVERT CLF 2	0	72	216	0	0	0	27	82	0	0
CATAWBA 1	47	0	55	41	51	20	0	23	17	22
CATAWBA 2	40	40	0	34	45	17	20	0	14	19
CLINTON 1	142	0	159	136	0	26	0	29	25	0
COMANCHE PK 1	43	48	40	42	40	17	19	18	17	19
COMANCHE PK 2	40	47	49	34	47	18	19	20	14	19
COOK 1	0	0	0	0	0	0	0	0	0	0
COOK 2	0	69	74	193	0	0	28	30	78	0
COOPER STN	0	0	0	0	0	0	0	0	0	0
CRYSTAL RVR 3	0	55	177	0	0	0	25	82	0	0
DAVIS-BESSE 1	0	47	51	176	0	0	22	24	63	0
DIABLO CANYON-1	0	81	0	71	0	0	37	0	33	0
DIABLO CANYON-2	77	0	89	0	87	35	0	41	0	40
DRESDEN 1	0	0	0	0	0	0	0	0	0	0
DRESDEN 2	0	0	0	0	0	0	0	0	0	0
DRESDEN 3	0	0	0	0	0	0	0	0	0	0
DUANE ARNOLD	368	0	0	0	0	64	0	0	0	0
ENRICO FERMI-2	212	229	0	190	0	39	42	0	35	0
FARLEY 1	52	157	0	0	0	24	72	0	0	0
FARLEY 2	52	54	0	46	55	24	25	0	21	25
FITZPATRICK	560	0	0	0	0	99	0	0	0	0
FORT CALHOUN	0	0	0	0	0	0	0	0	0	0
GINNA	0	0	0	0	0	0	0	0	0	0
GRAND GULF 1	189	207	0	172	212	33	36	0	30	37
GRAND GULF 2	0	235	233	0	245	0	41	41	0	43
HADDAM NECK	0	0	0	0	0	0	0	0	0	0
HARRIS 1	0	36	30	0	37	0	17	14	0	17
HATCH 1	0	0	0	0	0	0	0	0	0	0
HATCH 2	132	145	0	120	560	25	27	0	22	104
HOPE CREEK	164	183	0	139	187	30	33	0	25	34

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES					WTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
HUMBOLDT BAY	0	0	0	0	0	0	0	0	0	0
INDIAN PT 1	0	0	0	0	0	0	0	0	0	0
INDIAN PT 2	0	0	0	0	0	0	0	0	0	0
INDIAN PT 3	193	0	0	0	0	88	0	0	0	0
Kewaunee	0	0	0	0	0	0	0	0	0	0
LACROSSE	0	0	0	0	0	0	0	0	0	0
LASALLE CTY 1	158	173	0	142	174	29	31	0	26	32
LASALLE CTY 2	157	0	186	141	0	29	0	34	28	0
LIMERICK 1	154	189	0	140	172	27	30	0	25	30
LIMERICK 2	0	190	0	179	221	0	35	0	32	39
MAINE YANKEE	0	0	0	0	0	0	0	0	0	0
MCGUIRE 1	0	50	53	41	0	0	21	22	17	0
MCGUIRE 2	46	50	0	41	51	19	21	0	17	22
MIDLAND-1	28	28	29	26	28	9	9	10	9	9
MIDLAND-2	0	53	54	0	53	0	25	25	0	25
MILLSTONE 1	0	0	0	0	0	0	0	0	0	0
MILLSTONE 2	217	0	0	0	0	88	0	0	0	0
MILLSTONE 3	52	62	0	43	58	24	29	0	26	27
MONTICELLO	0	0	0	0	0	0	0	0	0	0
NINE MILE PT1	0	0	0	0	0	0	0	0	0	0
NINE MILE PT2	169	0	208	0	193	29	0	36	0	33
NORTH ANNA 1	44	48	156	0	0	20	22	72	0	0
NORTH ANNA 2	44	48	0	39	51	20	22	0	18	24
OCONEE 1	0	0	0	0	0	0	0	0	0	0
OCONEE 2	0	0	0	0	0	0	0	0	0	0
OCONEE 3	0	0	0	0	0	0	0	0	0	0
OYSTER CRK 1	0	0	0	0	0	0	0	0	0	0
PALISADES	0	0	0	0	0	0	0	0	0	0
PALO VERDE 1	47	51	54	41	51	21	22	24	18	22
PALO VERDE 2	44	47	37	41	46	19	21	16	18	20
PALO VERDE 3	40	45	48	35	46	17	20	21	15	20
PEACHBOTTOM 2	0	0	0	0	0	0	0	0	0	0
PEACHBOTTOM 3	0	0	0	0	0	0	0	0	0	0
PERRY 1	0	172	186	0	176	0	31	34	0	32
PERRY 2	218	224	0	203	233	40	41	0	37	42
PILGRIM 1	0	0	0	0	0	0	0	0	0	0
POINT BEACH 1	0	0	0	0	0	0	0	0	0	0
POINT BEACH 2	0	0	0	0	0	0	0	0	0	0
PRAIRIE ISL 1	0	0	0	0	0	0	0	0	0	0
PRAIRIE ISL 2	0	0	0	0	0	0	0	0	0	0
QUAD CITIES 1	0	0	0	0	0	0	0	0	0	0
QUAD CITIES 2	0	0	0	0	0	0	0	0	0	0
RANCHO SECO-1	177	0	0	0	0	82	0	0	0	0
ROBINSON 2	0	0	0	0	0	0	0	0	0	0
RVR BEND 1	0	163	178	0	187	0	30	33	0	31
SALEM UNIT 2	60	0	71	55	0	28	0	33	25	0
SALEM 1	60	66	193	0	0	28	30	89	0	0
SAN ONOFRE 1	0	0	0	0	0	0	0	0	0	0

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

REACTOR	ASSEMBLIES					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
SAN ONOFRE 2	0	71	0	57	0	0	30	0	24	0
SAN ONOFRE 3	64	71	0	58	0	27	30	0	25	0
SEABROOK 1	41	45	49	34	46	19	21	23	16	21
SEABROOK 2	55	55	0	56	59	25	25	0	26	27
SEQUOYAH 1	57	0	66	0	64	26	0	36	0	29
SEQUOYAH 2	0	62	66	0	64	0	29	30	0	30
SHOREHAM	0	106	134	0	132	0	19	24	0	24
SOUTH TEXAS, UNIT 1	33	39	30	34	35	18	21	16	18	19
SOUTH TEXAS, UNIT 2	32	34	39	28	36	17	18	21	15	19
ST LUCIE 1	217	0	0	0	0	83	0	0	0	0
ST LUCIE 2	51	56	0	46	57	20	22	0	18	22
SUMNER 1	0	53	56	0	54	0	25	26	0	25
SURRY 1	0	0	0	0	0	0	0	0	0	0
SURRY 2	0	0	0	0	0	0	0	0	0	0
SUSQUEHANNA 1	161	177	0	146	180	28	31	0	25	31
SUSQUEHANNA 2	0	177	190	0	181	0	31	33	0	31
3 MILE ISL 1	0	0	0	0	0	0	0	0	0	0
TROJAN	35	193	0	0	0	16	89	0	0	0
TURKEY PT 3	0	0	0	0	0	0	0	0	0	0
TURKEY PT 4	0	0	0	0	0	0	0	0	0	0
VOGTLE 1	52	63	0	44	58	24	29	0	20	27
VOGTLE 2	53	62	0	45	59	24	29	0	21	27
VT YANKEE 1	0	0	0	0	0	0	0	0	0	0
WASH NUCLEAR 2	114	126	135	103	128	20	22	24	18	23
WATERFORD 3	65	0	86	59	0	27	0	36	25	0
WATTS BAR 1	0	49	0	50	46	0	23	0	23	21
WATTS BAR 2	53	0	46	52	0	24	0	21	24	0
WNP-1	87	0	85	80	0	40	0	39	36	0
WNP-3	59	60	50	54	69	26	26	25	24	36
WOLF CREEK 1	34	38	40	31	38	16	18	19	14	18
YANKEE-ROWE 1	0	0	0	0	0	0	0	0	0	0
ZION 1	0	0	0	0	0	0	0	0	0	0
ZION 2	0	0	0	0	0	0	0	0	0	0
BRUNSWICK 1 PWR	0	0	0	0	0	0	0	0	0	0
BRUNSWICK 2 PWR	0	0	0	0	0	0	0	0	0	0
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	0	0	0	0	0	0	0	0	0	0
MORRIS-PWR	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-B	0	0	0	0	0	0	0	0	0	0
WEST VALLEY-P	0	0	0	0	0	0	0	0	0	0
BWR GENERIC	4030	4301	4996	5059	5494	733	780	912	925	992
PWR GENERIC	3377	3457	4146	4278	4312	1474	1513	1799	1843	1856
TOTAL GENERIC	7407	7758	9144	9337	9806	2207	2293	2711	2768	2848

TABLE A.3. Upper Reference Case, 1985 Inventory and Projected Annual Reactor Discharges (contd)

		<u>SUBTOTALS BY REACTOR TYPE AND TOTALS</u>										
		<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>
PWR	ASSEMBLY	17862	2266	2315	2793	3116	3156	2956	3262	3114	2763	3358
PWR	MTIHM	7556	981	1006	1192	1355	1372	1277	1430	1354	1170	1470
BWR	ASSEMBLY	28033	2342	3016	3581	4121	3476	4017	4264	3602	4507	3526
BWR	MTIHM	5095	419	548	648	744	628	723	762	648	829	630
TOTAL	ASSEMBLY	45895	4608	5331	6374	7237	6632	6973	7526	6716	7310	6884
TOTAL	MTIHM	12651	1400	1548	1840	2100	2000	2000	2193	2000	2000	2100
		<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	
PWR	ASSEMBLY	2837	3030	3029	2930	3144	3062	2827	3193	3571	3431	
PWR	MTIHM	1229	1319	1306	1278	1372	1347	1234	1391	1575	1512	
BWR	ASSEMBLY	4304	3783	3929	4032	4070	3656	4277	4501	4184	4271	
BWR	MTIHM	771	681	685	722	728	653	766	810	744	768	
TOTAL	ASSEMBLY	7141	6813	6958	6962	7222	6718	7104	7694	7755	7702	
TOTAL	MTIHM	2000	2000	1991	2000	2100	2000	2000	2200	2319	2280	
		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	
PWR	ASSEMBLY	3666	4310	3859	4204	4824	4751	5290	5871	5598	6212	
PWR	MTIHM	1602	1901	1690	1626	2110	2058	2291	2571	2472	2709	
BWR	ASSEMBLY	5581	4464	5071	7003	6072	6932	7332	6236	9590	8222	
BWR	MTIHM	998	799	910	1274	1081	1241	1309	1128	1727	1491	
TOTAL	ASSEMBLY	9247	8774	8930	11207	10896	11683	12622	12107	15188	14434	
TOTAL	MTIHM	2600	2700	2599	3100	3199	3300	3600	3699	4200	4200	
		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>						
PWR	ASSEMBLY	6210	6126	6635	6359	6051						
PWR	MTIHM	2719	2696	2903	2752	2632						
BWR	ASSEMBLY	7092	7749	6607	6870	8655						
BWR	MTIHM	1281	1403	1197	1247	1567						
TOTAL	ASSEMBLY	13302	13875	13242	13229	14706						
TOTAL	MTIHM	3999	4099	4100	3999	4199						

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020

REACTOR	Inv											WTIHM										
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
ARK NUCLEAR 1	378	437	437	489	489	541	595	595	642	642	691	175	202	202	227	227	251	278	278	297	297	320
ARK NUCLEAR 2	228	282	282	337	395	395	488	488	518	518	578	95	118	118	142	168	168	193	193	216	216	241
B VALLEY 1	218	281	337	337	399	488	488	525	588	647	647	188	129	155	155	183	212	212	242	270	298	298
B VALLEY 2	0	0	0	0	0	25	79	79	135	189	189	0	0	0	0	0	12	38	36	62	87	87
BELLEFONTE 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BELLEFONTE 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BIG ROCK 1	192	210	210	224	241	258	277	294	310	310	328	25	27	27	29	32	34	36	38	41	41	43
BRAIDWOOD 1	0	0	0	0	114	114	177	255	255	318	399	0	0	0	0	48	48	75	108	108	134	169
BRAIDWOOD 2	0	0	0	0	0	0	73	148	148	207	293	0	0	0	0	0	0	31	62	62	88	124
BROWNS FERRY1	1328	1328	1328	1328	1328	1328	1531	1531	1720	1720	1720	246	246	246	246	246	246	246	283	283	317	317
BROWNS FERRY2	1192	1192	1192	1437	1437	1437	1648	1647	1847	2037	2037	221	221	221	265	265	265	304	340	340	375	375
BROWNS FERRY3	1004	1004	1004	1004	1233	1233	1451	1451	1641	1833	1833	185	185	185	185	227	227	287	287	301	336	336
BRUNSWICK 1	848	848	989	989	1142	1298	1298	1481	1481	1618	1779	158	158	184	184	212	241	241	272	272	301	331
BRUNSWICK 2	758	758	758	922	1079	1079	1255	1255	1489	1584	1584	141	141	141	171	200	200	233	233	262	291	291
BYRON 1	0	0	68	143	143	218	302	302	372	442	442	0	0	29	80	80	92	128	128	157	187	187
BYRON 2	0	0	0	0	114	173	173	251	319	319	401	0	0	0	0	48	73	73	108	135	135	170
CALLAWAY 1	0	77	151	151	233	307	307	392	485	485	550	0	35	70	70	106	136	136	172	203	203	239
CALVERT CLF 1	542	813	813	891	891	789	789	851	851	928	928	208	235	235	264	264	294	294	325	325	354	354
CALVERT CLF 2	488	488	534	534	609	609	705	705	782	782	863	179	179	205	205	233	233	269	269	298	298	329
CATAWBA 1	0	59	112	168	222	222	283	339	392	392	448	0	25	47	71	94	94	128	143	166	186	190
CATAWBA 2	0	0	0	98	170	220	220	277	326	374	374	0	0	0	38	72	93	93	117	138	158	158
CLINTON 1	0	0	0	273	545	545	698	698	889	1026	1214	0	0	0	58	100	100	128	163	163	188	222
COMANCHE PK 1	0	0	0	68	163	212	263	317	368	418	488	0	0	0	41	75	98	121	143	163	183	204
COMANCHE PK 2	0	0	0	0	0	48	98	155	208	251	309	0	0	0	0	0	19	41	68	87	105	129
COOK 1	546	546	605	672	672	740	740	811	878	878	948	238	238	265	298	298	327	327	380	390	390	423
COOK 2	335	415	483	483	558	558	642	720	720	793	871	154	187	215	215	245	245	279	310	310	340	371
COOPER STN	874	1011	1011	1126	1221	1319	1431	1533	1633	1727	1828	184	189	189	210	228	246	266	285	303	320	339
CRYSTAL RVR 3	308	308	375	375	440	440	509	509	589	589	632	142	142	174	174	204	204	236	236	264	264	293
DAVIS-BESSE 1	197	197	246	298	298	350	409	409	480	511	511	93	93	118	140	140	165	192	192	216	240	240
DIABLO CANYON-1	0	63	63	133	221	221	325	325	412	412	507	0	29	29	61	102	102	149	149	189	189	233
DIABLO CANYON-2	0	0	53	53	121	209	209	304	304	391	391	0	0	24	24	58	96	96	140	140	180	180
DRESDEN 1	683	683	683	683	683	683	683	683	683	683	683	70	70	70	70	70	70	70	70	70	70	70
DRESDEN 2	1414	1591	1591	1735	1876	1876	2021	2161	2161	2293	2432	257	289	289	313	335	335	361	384	384	406	430
DRESDEN 3	1458	1458	1572	1572	1708	1842	1842	1982	2114	2114	2253	266	266	285	285	308	330	330	354	376	376	399
DJANE ARNOLD	898	898	795	899	899	1001	1123	1123	1222	1322	1322	129	129	148	167	167	185	207	207	225	242	242
ENRICO FERMI-2	0	0	0	201	450	450	717	717	954	954	1221	0	0	0	37	83	83	131	131	177	177	223
FARLEY 1	349	408	408	488	526	526	595	656	656	716	777	160	187	187	215	242	242	274	302	302	330	358
FARLEY 2	188	251	304	304	365	423	423	486	543	543	606	86	115	140	140	168	194	194	224	250	250	279
FITZPATRICK	1012	1012	1156	1297	1297	1448	1621	1621	1768	1915	1915	189	189	215	241	241	269	300	300	328	352	352
FORT CALHOUN	347	347	381	419	419	458	495	495	531	562	562	128	128	138	152	152	165	179	179	192	203	203
GINNA	380	390	417	444	471	498	528	558	583	610	638	139	150	160	170	179	188	198	207	216	225	234
GRAND GULF 1	0	244	447	447	858	882	882	1117	1338	1338	1572	0	45	82	82	120	160	160	201	240	240	282
GRAND GULF 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HADDAM NECK	544	592	833	874	874	715	788	813	813	857	987	224	244	261	278	278	295	316	335	335	353	374
HARRIS 1	0	0	0	79	146	146	189	233	233	269	312	0	0	0	37	88	88	108	108	125	145	145
HATCH 1	1188	1188	1307	1464	1464	1618	1795	1795	1949	2104	2104	216	216	242	271	271	299	332	332	360	389	389
HATCH 2	546	721	880	880	1015	1170	1170	1333	1488	1488	1648	180	132	158	158	186	215	215	245	274	274	304
HOPE CREEK	0	0	0	0	324	504	504	741	940	940	1172	0	0	0	0	80	93	93	137	173	173	215
HUMBOLDT BAY	390	390	390	390	390	390	390	390	390	390	390	29	29	29	29	29	29	29	29	29	29	29
INDIAN PT 1	180	180	180	180	180	180	180	180	180	180	180	31	31	31	31	31	31	31	31	31	31	31

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Inv											MTIHM										
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
INDIAN PT 2	396	450	510	510	567	624	624	685	685	742	802	179	207	231	231	257	283	283	311	311	336	363
INDIAN PT 3	292	292	350	415	415	479	479	547	610	610	677	133	133	160	190	190	219	219	250	279	279	309
KEWAUNEE	352	377	414	465	488	519	555	588	619	650	683	138	147	161	177	189	201	215	227	239	251	263
LACROSSE	233	261	261	281	281	302	302	323	323	343	343	27	30	30	33	33	37	37	40	40	43	43
LASALLE CTY 1	132	132	379	379	540	726	726	920	1104	1104	1298	24	24	69	69	99	132	132	168	201	201	237
LASALLE CTY 2	0	207	207	406	593	593	805	1000	1000	1183	1377	0	38	38	74	108	108	147	182	182	216	251
LIMERICK 1	0	0	250	250	437	612	612	810	986	986	1177	0	0	46	46	80	112	112	147	179	179	212
LIMERICK 2	0	0	0	0	0	0	0	0	0	269	486	0	0	0	0	0	0	0	0	0	49	89
MAINE YANKEE	787	787	837	900	982	982	1032	1032	1093	1154	1154	297	297	316	339	362	382	389	389	412	435	435
MCQUIRE 1	135	202	254	311	311	366	427	484	484	537	593	62	93	115	139	139	163	189	213	213	235	259
MCQUIRE 2	48	110	165	225	280	335	335	392	445	499	499	22	51	76	101	125	148	148	172	195	218	218
MIDLAND-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIDLAND-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MILLSTONE 1	1536	1536	1690	1690	1860	1860	2052	2052	2219	2386	2386	289	289	316	316	346	346	380	380	410	440	440
MILLSTONE 2	426	480	480	544	606	669	669	737	801	865	865	166	187	187	213	239	264	264	292	318	344	344
MILLSTONE 3	0	0	58	58	179	244	244	319	383	383	462	0	0	27	27	83	113	113	147	177	177	213
MONTICELLO	436	586	641	641	733	825	929	1025	1025	1115	1210	82	104	119	119	135	150	168	185	185	200	217
NINE MILE PT1	1244	1429	1429	1602	1602	1764	1764	1937	1937	2084	2084	235	260	268	298	298	327	327	357	357	383	383
NINE MILE PT2	0	0	0	0	0	200	200	445	445	631	631	0	0	0	0	0	37	37	81	81	115	115
NORTH ANNA 1	299	299	349	405	405	460	523	523	577	631	631	137	137	160	166	186	212	241	241	266	291	291
NORTH ANNA 2	174	234	279	279	334	389	389	447	501	501	558	80	100	128	128	154	179	179	206	231	231	257
OCONEE 1	578	633	678	728	728	779	837	890	890	940	993	268	293	314	337	337	361	388	412	412	435	460
OCONEE 2	412	467	512	512	563	614	614	667	717	767	767	191	217	237	237	261	285	285	309	332	356	356
OCONEE 3	388	388	433	483	534	534	591	644	644	694	747	180	180	201	224	248	248	274	299	299	322	347
OYSTER CRK 1	1204	1367	1367	1514	1639	1639	1781	1934	1934	2078	2078	227	255	255	281	303	303	328	355	355	381	381
PALISADES	545	545	598	598	650	714	714	775	775	832	832	219	219	240	240	262	285	285	309	309	331	331
PALO VERDE 1	0	0	47	117	178	266	347	404	457	510	568	0	0	20	48	73	119	146	171	194	217	241
PALO VERDE 2	0	0	51	177	275	325	373	427	477	525	582	0	0	22	73	112	133	154	177	199	220	245
PALO VERDE 3	0	0	0	0	76	133	185	242	290	334	397	0	0	0	0	32	55	76	100	121	140	160
PEACHBOTTOM 2	1464	1464	1654	1654	1854	2040	2259	2259	2448	2638	2638	272	272	307	344	344	378	417	417	450	484	484
PEACHBOTTOM 3	1496	1496	1686	1686	1850	1850	2057	2249	2249	2426	2616	279	279	310	310	344	344	382	416	416	448	481
PERRY 1	0	0	0	346	624	824	882	1000	1000	1187	1378	0	0	0	63	114	114	146	184	184	217	251
PERRY 2	0	0	0	0	0	0	0	0	0	269	269	0	0	0	0	0	0	0	0	0	38	38
PILGRIM 1	1128	1306	1306	1475	1475	1637	1637	1808	1808	1973	1973	213	244	244	274	274	303	303	333	333	362	362
POINT BEACH 1	403	436	468	500	530	550	588	616	643	670	698	161	175	188	200	211	221	232	241	251	261	270
POINT BEACH 2	384	416	448	480	510	537	568	596	623	650	678	153	166	179	190	201	210	221	231	241	251	260
PRAIRIE ISL 1	326	383	414	448	482	516	555	555	588	621	656	126	149	160	173	185	197	211	211	222	234	246
PRAIRIE ISL 2	374	411	411	444	477	511	549	584	617	650	685	146	160	160	171	183	195	208	221	233	244	257
QUAD CITIES 1	1209	1380	1511	1511	1648	1784	1784	1926	2070	2070	2211	228	259	282	282	306	330	330	355	380	380	405
QUAD CITIES 2	1276	1417	1417	1561	1698	1698	1853	1994	1994	2128	2268	241	266	266	292	316	316	343	368	368	392	416
RANCHO SECO-1	265	318	318	373	432	432	498	552	552	603	657	123	147	147	173	200	200	231	256	256	279	304
ROBINSON 2	222	268	302	354	354	394	440	440	491	531	531	98	115	130	151	151	169	189	189	209	227	227
RVR BEND 1	0	0	130	317	317	486	682	682	856	1031	1031	0	0	24	59	59	90	126	126	158	191	191
SALEM UNIT 2	115	163	163	243	317	317	399	471	471	535	606	53	75	75	112	146	146	183	216	216	246	278
SALEM 1	270	341	402	402	474	536	536	621	692	692	778	124	157	185	185	218	246	246	285	318	318	357
SAN ONOFRE 1	94	141	141	188	231	231	277	277	320	320	320	35	52	52	69	85	85	85	102	102	118	118
SAN ONOFRE 2	66	149	217	217	292	292	378	378	452	452	530	28	61	90	90	122	122	158	158	190	190	223
SAN ONOFRE 3	66	147	147	223	223	298	298	377	377	452	530	28	60	60	92	92	124	124	158	158	190	223
SEABROOK 1	0	0	0	0	76	120	173	173	222	287	325	0	0	0	0	35	55	80	80	102	123	150
SEABROOK 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Inv											WTIHM										
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
SEQUOYAH 1	212	212	212	280	280	348	348	419	486	486	557	97	97	97	129	129	168	168	192	223	223	256
SEQUOYAH 2	136	289	289	278	278	346	346	417	417	484	554	82	96	96	128	128	159	159	192	192	223	256
SHOREHAM	0	0	0	0	0	0	145	145	287	388	388	0	0	0	0	0	0	27	27	53	71	71
SOUTH TEXAS, UNIT 1	0	0	0	0	70	112	152	195	235	274	323	0	0	0	0	38	61	82	106	127	146	175
SOUTH TEXAS, UNIT 2	0	0	0	0	0	0	48	94	134	171	226	0	0	0	0	0	0	25	51	73	93	122
ST LUCIE 1	444	444	499	564	564	624	697	697	788	823	823	169	169	198	214	214	236	264	264	288	312	312
ST LUCIE 2	88	156	209	209	272	333	333	397	457	457	521	31	59	79	79	103	127	127	151	175	175	208
SUMMER 1	112	112	184	223	223	280	345	345	402	459	459	51	51	75	102	102	129	159	159	185	212	212
SURRY 1	474	521	521	568	611	655	655	702	745	745	792	215	237	237	257	278	298	298	320	339	339	361
SURRY 2	382	414	414	451	499	499	550	597	597	641	688	184	188	188	205	227	227	250	272	272	292	314
SUSQUEHANNA 1	192	464	647	647	851	1038	1038	1237	1425	1425	1623	35	85	119	119	155	188	188	222	255	255	289
SUSQUEHANNA 2	0	0	248	429	429	615	830	830	1018	1203	1203	0	0	48	79	79	113	150	150	182	215	215
3 MILE ISL 1	208	208	266	333	333	394	480	480	521	582	582	97	97	123	154	154	183	213	213	242	270	270
TROJAN	319	351	400	455	497	537	583	625	665	706	747	147	181	184	209	228	247	268	287	306	324	344
TURKEY PT 3	424	424	487	588	588	552	598	598	636	678	678	192	192	212	231	231	251	272	272	291	309	309
TURKEY PT 4	378	441	480	480	524	565	565	607	647	647	690	171	200	218	218	238	257	257	276	295	295	314
VOGTLE 1	0	0	0	0	111	178	178	250	314	314	392	0	0	0	0	51	81	81	115	145	145	181
VOGTLE 2	0	0	0	0	0	64	64	139	203	203	280	0	0	0	0	0	30	30	64	94	94	129
VT YANKEE 1	1322	1322	1412	1522	1522	1630	1752	1752	1858	1965	1965	246	246	263	283	283	303	325	325	344	364	364
WASH NUCLEAR 2	0	122	273	418	544	679	832	977	1111	1245	1387	0	22	50	77	100	124	151	177	200	224	249
WATERFORD 3	0	68	68	149	149	234	331	331	415	415	498	0	29	29	61	61	97	137	137	172	172	208
WATTS BAR 1	0	0	0	0	0	0	46	115	115	170	170	0	0	0	0	0	0	21	53	53	78	78
WATTS BAR 2	0	0	0	0	0	0	48	48	104	104	170	0	0	0	0	0	0	22	22	48	48	78
WNP-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNP-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WOLF CREEK 1	0	47	66	127	168	209	255	297	337	377	419	0	22	40	59	78	97	118	137	156	174	194
YANKEE-ROWE 1	341	341	377	411	411	442	481	481	511	511	548	83	83	91	99	99	106	115	115	122	122	130
ZION 1	510	568	625	625	688	747	747	810	870	870	933	233	259	285	285	313	341	341	370	397	397	426
ZION 2	503	503	584	628	628	690	759	759	819	879	879	229	229	257	285	285	314	346	346	373	401	401
BRUNSWICK 1 PWR	160	160	160	160	160	160	160	160	160	160	160	71	71	71	71	71	71	71	71	71	71	71
BRUNSWICK 2 PWR	144	144	144	144	144	144	144	144	144	144	144	66	66	66	66	66	66	66	66	66	66	66
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	290	290	290	290	290	290	290	290	290	290	290
MORRIS-PWR	350	350	350	350	350	350	350	350	350	350	350	132	132	132	132	132	132	132	132	132	132	132
WEST VALLEY-B	85	85	85	85	85	85	85	85	85	85	85	11	11	11	11	11	11	11	11	11	11	11
WEST VALLEY-P	120	120	120	120	120	120	120	120	120	120	120	47	47	47	47	47	47	47	47	47	47	47
BWR GENERIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PWR GENERIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL GENERIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies										WTIHM									
	1986	1997	1998	1999	2000	2001	2002	2003	2004	2005	1986	1997	1998	1999	2000	2001	2002	2003	2004	2005
ARK NUCLEAR 1	733	733	778	778	826	826	865	865	911	951	348	348	368	368	383	383	401	401	422	441
ARK NUCLEAR 2	626	626	681	681	739	794	794	858	858	903	262	262	285	285	309	332	332	357	357	377
B VALLEY 1	781	786	786	818	881	881	932	999	999	1058	323	358	358	377	408	408	429	468	468	484
B VALLEY 2	235	308	308	353	415	415	459	459	517	558	188	142	142	183	191	191	212	212	238	257
BELLEVILLE 1	0	0	0	0	0	0	51	51	118	184	0	0	0	0	0	0	23	23	54	84
BELLEVILLE 2	0	0	0	38	38	112	168	168	247	299	0	0	0	17	17	51	77	77	113	136
BIG ROCK 1	343	359	375	398	408	424	424	442	458	472	45	47	49	51	53	55	55	58	60	62
BRAIDWOOD 1	399	482	550	550	623	695	695	748	815	815	189	284	233	233	284	294	294	318	345	345
BRAIDWOOD 2	293	388	448	448	526	599	599	688	735	735	124	161	198	198	222	253	253	283	311	311
BROWNS FERRY1	1889	2073	2073	2252	2252	2433	2594	2594	2783	2783	348	381	381	414	414	446	476	476	510	510
BROWNS FERRY2	2287	2398	2398	2589	2589	2751	2913	2913	3183	3183	405	439	439	471	471	504	534	534	568	568
BROWNS FERRY3	2883	2883	2188	2386	2386	2548	2548	2754	2754	2914	367	367	401	433	433	468	468	503	503	532
BRUNSWICK 1	1779	1927	2076	2076	2234	2234	2365	2532	2532	2661	331	359	387	387	418	418	441	472	472	496
BRUNSWICK 2	1781	1781	1851	1998	1998	2143	2274	2274	2428	2557	318	318	344	371	371	399	423	423	452	478
BYRON 1	584	571	571	637	709	709	769	845	845	904	213	242	242	269	300	300	325	357	357	382
BYRON 2	456	456	524	575	575	647	696	696	783	809	193	193	222	243	243	274	294	294	323	342
CALLAWAY 1	815	815	893	782	782	838	908	908	979	1041	268	268	299	328	328	361	387	387	420	447
CALVERT CLF 1	996	996	1078	1078	1148	1148	1213	1213	1289	1289	388	388	487	487	437	437	461	461	490	490
CALVERT CLF 2	863	938	938	1008	1008	1088	1088	1164	1164	1228	329	358	358	383	383	418	418	442	442	466
CATAWBA 1	495	548	598	598	653	704	749	807	807	852	289	231	253	253	276	298	317	341	341	388
CATAWBA 2	415	481	532	532	591	647	686	735	735	778	178	203	225	225	250	274	298	311	311	326
CLINTON 1	1214	1425	1587	1587	1774	1934	1934	2108	2247	2247	222	281	298	298	324	354	354	385	411	411
COMANCHE PK 1	512	578	626	669	724	770	818	869	912	957	222	248	268	285	307	328	345	366	383	401
COMANCHE PK 2	352	413	484	507	561	612	653	704	756	793	146	171	191	208	230	251	267	288	309	324
COOK 1	1887	1887	1871	1871	1139	1283	1283	1278	1278	1332	458	458	479	479	510	540	540	573	573	599
COOK 2	871	941	941	1018	1085	1085	1147	1147	1228	1282	371	488	488	428	458	458	483	483	512	538
COOPER STN	1914	2064	2098	2185	2281	2369	2448	2549	2641	2717	354	371	388	404	421	437	452	470	487	501
CRYSTAL RVR 3	632	698	698	747	747	804	804	869	869	926	293	328	328	347	347	373	373	403	403	427
DAVIS-BESSE 1	558	605	605	652	704	704	748	801	801	843	261	284	284	308	330	330	358	376	376	395
DIABLO CANYON-1	587	598	598	675	675	757	757	855	855	927	233	271	271	310	310	348	348	393	393	426
DIABLO CANYON-2	471	471	555	555	647	647	728	728	818	818	218	218	255	255	297	297	331	331	372	372
DRESDEN 1	883	883	883	883	883	883	883	883	883	883	78	78	78	78	78	78	78	78	78	78
DRESDEN 2	2432	2558	2686	2686	2821	2948	2948	3088	3228	3228	438	451	472	472	495	518	518	548	562	562
DRESDEN 3	2378	2378	2498	2622	2622	2747	2859	2859	2998	3099	419	419	448	481	481	482	501	501	523	541
DUANE ARNOLD	1418	1512	1512	1687	1718	1718	1882	1918	1918	1999	259	276	276	293	313	313	328	347	347	363
ENRICO FERMI-2	1435	1435	1671	1671	1918	1918	2124	2383	2383	2587	282	282	305	305	350	350	388	435	435	472
FARLEY 1	777	835	891	891	953	1087	1087	1072	1138	1138	358	384	418	418	439	464	464	494	521	521
FARLEY 2	657	657	715	769	769	827	875	875	935	983	382	382	329	354	354	381	403	403	431	453
FITZPATRICK	2849	2189	2189	2326	2478	2478	2688	2759	2759	2882	378	481	481	425	452	452	474	502	502	524
FORT CALHOUN	594	638	638	683	781	781	732	773	773	803	215	228	228	248	253	253	284	279	279	298
GINNA	681	686	712	737	764	789	812	841	868	898	242	258	259	287	276	284	292	301	310	317
GRAND GULF 1	1769	1769	1984	2193	2193	2484	2592	2592	2812	2996	318	318	354	391	391	428	461	461	508	533
GRAND GULF 2	0	0	0	0	0	0	289	515	515	643	0	0	0	0	0	0	38	94	94	117
HADDAM NECK	987	949	989	1031	1031	1073	1111	1159	1159	1196	374	391	407	425	425	442	458	477	477	493
HARRIS 1	312	365	365	398	443	443	475	514	514	543	145	170	170	185	208	208	221	239	239	252
HATCH 1	2242	2398	2398	2535	2691	2691	2821	2987	2987	3116	415	442	442	469	498	498	522	553	553	577
HATCH 2	1784	1784	1932	2076	2076	2222	2352	2352	2505	2633	329	329	358	383	383	418	434	434	483	487
HOPE CREEK	1341	1341	1556	1718	1718	1934	2098	2098	2388	2444	246	246	285	314	314	354	382	382	428	446
HUMBOLDT BAY	398	398	398	398	398	398	398	398	398	398	29	29	29	29	29	29	29	29	29	29
INDIAN PT 1	188	188	188	188	188	188	188	188	188	188	31	31	31	31	31	31	31	31	31	31

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
INDIAN PT 2	882	858	858	918	988	988	1016	1018	1073	1121	363	388	388	412	438	438	468	468	488	507
INDIAN PT 3	877	738	799	799	884	884	918	987	987	1040	389	337	365	365	395	395	419	451	451	475
KENAUWEE	718	748	778	799	831	888	888	928	951	977	274	285	298	307	328	331	348	353	365	375
LACROSSE	381	381	388	388	401	401	417	417	437	437	48	48	49	49	53	53	58	58	59	59
LASALLE CTY 1	1481	1481	1638	1811	1811	1988	2142	2142	2325	2478	268	268	298	330	330	362	390	390	423	451
LASALLE CTY 2	1377	1553	1738	1738	1918	2093	2093	2292	2475	2475	251	283	315	315	349	381	381	417	451	451
LIMERICK 1	1338	1338	1513	1683	1683	1854	2007	2007	2187	2337	241	241	272	302	302	332	368	368	392	418
LIMERICK 2	488	778	778	944	1177	1177	1358	1358	1594	1784	89	141	141	172	213	213	245	245	287	307
MAINE YANKEE	1288	1287	1267	1324	1387	1387	1439	1586	1586	1557	458	478	478	508	524	524	543	589	589	588
MCGUIRE 1	848	891	891	741	798	847	847	985	958	1003	279	388	388	321	345	368	368	391	413	432
MCGUIRE 2	548	597	649	899	899	749	794	852	852	897	237	259	281	382	382	323	342	387	367	388
MIDLAND-1	8	8	8	8	8	8	8	8	8	25	8	8	8	8	8	8	8	8	8	8
MIDLAND-2	8	8	88	88	119	177	177	231	288	288	8	8	28	28	55	82	82	107	133	133
MILLSTONE 1	2535	2535	2698	2898	2898	3029	3029	3209	3209	3349	488	488	495	495	525	554	554	588	588	611
MILLSTONE 2	922	981	1039	1039	1181	1159	1159	1225	1285	1285	387	391	415	415	448	484	484	498	515	515
MILLSTONE 3	528	528	588	845	845	715	779	779	848	984	248	248	271	298	298	338	359	359	398	417
MONTICELLO	1298	1298	1377	1488	1552	1552	1629	1727	1817	1817	238	238	245	268	275	275	289	308	321	321
NINE MILE PT1	2225	2225	2378	2378	2529	2529	2688	2688	2813	2813	487	487	432	432	459	459	482	482	508	508
NINE MILE PT2	811	811	1029	1029	1251	1251	1418	1418	1837	1837	148	148	178	178	208	208	236	236	274	274
NORTH ANNA 1	879	731	731	761	838	838	881	939	939	984	313	337	337	368	385	385	408	433	433	454
NORTH ANNA 2	887	887	859	789	789	788	885	885	858	983	288	288	384	327	327	351	371	371	398	417
OCONEE 1	1838	1888	1888	1133	1185	1233	1233	1287	1337	1379	481	583	583	525	549	571	571	598	619	639
OCONEE 2	812	888	888	987	958	1088	1088	1081	1183	1145	378	399	399	428	444	488	488	492	511	531
OCONEE 3	747	795	844	891	891	938	988	988	1038	1072	347	389	392	413	413	435	455	455	478	497
OYSTER CRK 1	2288	2328	2328	2458	2458	2595	2718	2718	2883	2982	484	425	425	447	447	472	493	493	519	548
PALISADES	882	882	937	998	998	1044	1044	1185	1181	1181	358	358	372	392	392	413	413	437	459	459
PALO VERDE 1	613	884	718	788	821	872	917	975	1028	1073	282	284	387	329	353	375	394	428	443	462
PALO VERDE 2	828	892	742	785	842	893	942	998	1033	1077	284	293	315	333	358	381	402	423	442	461
PALO VERDE 3	437	584	558	595	654	789	748	888	852	887	185	215	237	254	288	384	321	344	368	382
PEACHBOTTOM 2	2887	2998	2998	3169	3384	3384	3525	3738	3738	3888	514	548	548	578	613	613	641	677	677	705
PEACHBOTTOM 3	2818	2788	2865	2985	3147	3319	3319	3513	3692	3692	481	512	543	543	575	608	608	648	672	672
PERRY 1	1378	1889	1885	1885	2014	2183	2183	2388	2549	2549	251	293	329	329	387	398	398	435	484	464
PERRY 2	432	878	878	871	1131	1131	1331	1684	1684	1791	79	123	123	159	208	208	243	303	303	326
PILGRIM 1	1973	2127	2127	2279	2279	2435	2435	2688	2688	2743	382	398	398	418	418	444	444	474	474	498
POINT BEACH 1	721	748	772	797	825	858	873	982	928	951	279	288	297	388	318	324	333	343	352	388
POINT BEACH 2	782	728	753	778	885	838	852	888	987	929	289	278	287	298	388	314	322	332	342	358
PRAIRIE ISL 1	885	717	749	781	815	815	843	879	912	948	257	288	279	291	383	383	313	325	337	347
PRAIRIE ISL 2	885	717	749	788	814	848	874	911	944	972	257	288	279	298	382	314	324	337	348	358
QUAD CITIES 1	2329	2329	2458	2584	2584	2711	2824	2824	2958	3078	428	428	449	471	471	493	513	513	537	558
QUAD CITIES 2	2288	2397	2525	2525	2681	2789	2789	2934	3087	3087	418	439	461	481	485	508	508	534	557	557
RANCHO SECO-1	857	783	752	752	884	849	849	984	954	954	384	325	348	348	372	393	393	418	441	441
ROBINSON 2	587	815	815	852	893	893	738	788	828	828	243	282	282	278	298	298	314	333	358	358
RVR BEND 1	1188	1353	1353	1517	1897	1897	1845	2034	2034	2179	219	258	258	281	314	314	341	378	378	403
SALEM UNIT 2	888	883	755	755	831	898	898	975	1045	1045	278	314	347	347	382	412	412	448	488	488
SALEM 1	838	838	918	988	988	1047	1108	1108	1178	1235	385	385	418	458	458	481	508	508	548	567
SAN ONOFRE 1	359	359	481	481	445	445	482	482	528	528	133	133	148	148	165	165	178	178	195	195
SAN ONOFRE 2	598	598	682	682	738	738	881	881	875	875	251	251	288	288	312	312	339	339	371	371
SAN ONOFRE 3	538	681	681	685	685	738	738	817	817	888	223	253	253	281	281	311	311	346	346	373
SEABROOK 1	387	387	419	458	512	583	681	681	651	688	189	189	193	211	238	288	277	277	388	317
SEABROOK 2	8	8	8	8	8	8	8	81	119	179	8	8	8	8	8	8	8	28	55	83

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
SEQUOYAH 1	557	621	686	686	754	754	811	884	884	948	256	285	316	316	346	346	372	406	406	431
SEQUOYAH 2	554	618	618	681	750	750	806	806	873	929	255	285	285	314	345	345	371	371	402	428
SHOREHAM	508	678	678	793	929	929	1059	1174	1174	1302	93	124	124	146	170	170	193	214	214	237
SOUTH TEXAS, UNIT 1	358	416	457	492	542	587	626	666	706	736	194	225	247	266	293	318	339	360	379	398
SOUTH TEXAS, UNIT 2	259	318	360	392	443	491	521	564	606	634	140	172	195	212	240	266	282	305	328	343
ST LUCIE 1	879	948	948	999	1065	1065	1119	1188	1188	1241	334	357	357	380	405	405	425	452	452	472
ST LUCIE 2	674	674	632	689	689	747	798	798	858	908	220	220	243	265	265	288	307	307	331	350
SUMMER 1	509	563	563	616	675	675	723	785	785	832	235	260	260	284	312	312	334	363	363	385
SURRY 1	831	831	874	915	915	958	993	993	1036	1072	379	379	399	418	418	436	453	453	473	490
SURRY 2	688	731	774	774	818	860	886	900	952	952	314	334	353	353	373	393	393	415	435	435
SUSQUEHANNA 1	1791	1791	1973	2148	2148	2325	2483	2483	2670	2826	318	318	349	380	380	410	437	437	478	497
SUSQUEHANNA 2	1369	1549	1549	1724	1916	1916	2075	2276	2276	2432	243	274	274	305	338	338	365	400	400	427
3 MILE ISL 1	635	635	693	749	749	807	858	858	918	969	294	294	321	347	347	374	398	398	428	449
TROJAN	782	821	880	898	939	977	1011	1055	1095	1129	380	378	396	413	432	450	465	486	504	520
TURKEY PT 3	713	751	751	789	830	830	884	908	908	941	325	342	342	360	379	379	394	415	415	430
TURKEY PT 4	728	728	766	803	803	841	841	885	925	925	331	331	349	368	368	384	384	404	422	422
VOGTLE 1	450	450	518	575	575	642	705	705	772	830	208	208	239	265	265	296	325	325	356	383
VOGTLE 2	339	339	407	463	463	530	595	595	662	720	156	156	188	214	214	245	275	275	305	332
VT YANKEE 1	2060	2162	2162	2261	2371	2371	2481	2576	2576	2684	381	400	400	418	439	439	455	476	476	492
WASH NUCLEAR 2	1507	1636	1766	1891	2027	2165	2268	2413	2547	2658	270	293	316	338	361	384	404	429	453	473
WATERFORD 3	570	570	644	723	723	796	867	867	944	1015	236	236	267	300	300	330	360	360	392	421
WATTS BAR 1	228	309	309	359	359	431	485	485	540	540	184	143	143	166	166	199	224	224	249	249
WATTS BAR 2	225	225	287	287	361	429	429	489	489	544	184	184	132	132	167	198	198	226	226	251
WNP-1	0	0	0	0	0	0	0	0	71	115	0	0	0	0	0	0	0	0	32	52
WNP-3	57	168	230	281	357	426	478	586	659	691	24	69	94	118	148	178	201	248	260	294
WOLF CREEK 1	466	493	531	569	610	648	682	726	766	799	211	228	246	264	283	300	316	336	355	370
YANKEE-ROWE 1	573	573	649	649	649	649	649	649	649	649	137	137	154	154	154	154	154	154	154	154
ZION 1	986	986	1044	1101	1101	1158	1209	1209	1269	1320	450	450	477	503	503	529	552	552	580	603
ZION 2	932	990	990	1046	1107	1107	1158	1224	1224	1274	425	461	461	477	505	505	528	558	558	581
BRUNSWICK 1 PWR	160	160	160	160	160	160	160	160	160	160	71	71	71	71	71	71	71	71	71	71
BRUNSWICK 2 PWR	144	144	144	144	144	144	144	144	144	144	66	66	66	66	66	66	66	66	66	66
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	290	290	290	290	290	290	290	290	290	290
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	85	85	85	85	85	85	85	85	85	85	11	11	11	11	11	11	11	11	11	11
WEST VALLEY-P	120	120	120	120	120	120	120	120	120	120	47	47	47	47	47	47	47	47	47	47
BWR GENERIC	0	0	0	0	0	0	0	202	415	952	0	0	0	0	0	0	0	37	76	173
PWR GENERIC	0	0	0	0	0	0	0	78	398	749	0	0	0	0	0	0	0	35	183	344
TOTAL GENERIC	0	0	0	0	0	0	0	278	813	1701	0	0	0	0	0	0	0	72	259	517

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies										MTIHM									
	2000	2007	2008	2009	2010	2011	2012	2013	2014	2015	2000	2007	2008	2009	2010	2011	2012	2013	2014	2015
ARK NUCLEAR 1	961	1001	1001	1048	1048	1095	1142	1142	1181	1358	441	404	404	405	405	507	529	529	547	629
ARK NUCLEAR 2	903	962	1009	1009	1068	1068	1123	1180	1180	1226	377	401	421	421	445	445	468	492	492	511
B VALLEY 1	1113	1113	1102	1223	1207	1207	1345	1405	1405	1457	513	513	535	503	593	593	620	647	647	671
B VALLEY 2	558	813	650	650	700	755	755	804	847	847	257	203	300	300	323	348	348	371	390	390
BELLEFONTE 1	184	256	315	315	360	449	449	503	503	504	84	117	144	144	173	205	205	229	229	257
BELLEFONTE 2	299	360	427	427	488	488	547	503	503	671	136	188	195	195	223	223	250	275	275	308
BIG ROCK 1	550	550	550	550	550	550	550	550	550	550	73	73	73	73	73	73	73	73	73	73
BRAIDWOOD 1	074	930	930	994	1052	1052	1110	1172	1172	1223	370	397	397	420	445	445	472	490	496	517
BRAIDWOOD 2	007	871	871	942	1000	1000	1062	1118	1118	1170	341	360	360	390	423	423	449	473	473	495
BROWNS FERRY1	2904	2904	3139	3331	3331	3520	3520	3700	3804	4020	547	547	575	610	610	644	644	678	706	845
BROWNS FERRY2	3303	3303	3459	3650	3650	3840	3840	4020	4184	4948	604	604	633	667	667	702	702	736	764	903
BROWNS FERRY3	3115	3115	3271	3271	3472	3082	3082	3850	3050	4000	509	509	507	597	634	668	668	702	702	731
BRUNSWICK 1	2022	2022	2948	3500	3500	3500	3500	3500	3500	3500	520	520	550	653	653	653	653	653	653	653
BRUNSWICK 2	2557	2719	2845	2845	3000	3159	3159	3311	3437	3909	470	500	530	530	560	589	589	617	641	744
BYRON 1	977	977	1034	1104	1104	1174	1243	1243	1300	1358	413	413	437	407	467	497	520	520	550	574
BYRON 2	009	072	914	914	972	1033	1033	1009	1138	1138	342	309	307	307	411	437	437	461	481	481
CALLAWAY 1	1041	1125	1185	1185	1200	1342	1342	1422	1402	1402	447	402	507	507	543	574	574	600	633	633
CALVERT CLF 1	1370	1370	1432	1432	1513	1513	1500	1500	1649	1605	520	520	544	544	574	574	602	602	625	707
CALVERT CLF 2	1220	1300	1300	1303	1303	1400	1400	1530	1530	1599	400	490	490	524	524	553	553	582	582	605
CATAWBA 1	907	903	903	1017	1073	1120	1179	1179	1223	1209	304	407	407	430	454	477	499	499	517	537
CATAWBA 2	020	075	910	910	901	1000	1050	1050	1094	1135	349	370	307	307	407	420	447	447	463	480
CLINTON 1	2427	2550	2550	2725	2803	2803	3015	3134	3134	3204	444	400	400	490	523	523	551	573	573	597
COMANCHE PK 1	1010	1053	1092	1150	1192	1230	1200	1324	1302	1400	425	440	450	479	490	515	535	549	565	582
COMANCHE PK 2	047	090	930	902	1025	1075	1125	1109	1209	1249	345	305	379	400	417	437	457	475	491	507
COOK 1	1401	1401	1450	1523	1523	1500	1500	1655	1709	1902	031	031	050	007	007	717	717	740	773	861
COOK 2	1202	1350	1410	1410	1495	1495	1507	1039	1039	1099	530	500	592	592	624	624	653	602	602	700
COOPER STN	2015	2900	2979	3003	3102	3240	3334	3410	4040	4040	510	535	540	504	502	597	613	620	742	742
CRYSTAL RVR 3	920	903	903	1043	1043	1102	1102	1102	1102	1210	427	450	450	404	404	511	511	539	539	561
DAVIS-BESSE 1	090	090	937	907	907	1037	1007	1007	1120	1170	420	420	439	403	403	400	510	510	529	540
DIABLO CANYON-1	927	1021	1021	1109	1109	1190	1190	1203	1203	1359	420	409	409	509	509	550	550	509	509	624
DIABLO CANYON-2	001	001	970	970	1000	1000	1155	1155	1225	1225	414	414	440	440	409	409	530	530	502	502
DRESDEN 1	003	003	003	003	003	003	003	003	003	003	70	70	70	70	70	70	70	70	70	70
DRESDEN 2	3357	3494	3494	3629	4353	4353	4353	4353	4353	4353	505	000	000	030	751	751	751	751	751	751
DRESDEN 3	3009	3230	3343	3343	3400	3011	4335	4335	4335	4335	541	504	502	502	600	627	740	740	740	740
DUANE ARNOLD	2105	2105	2107	2200	2200	2300	2405	2405	2500	2654	302	302	390	414	414	432	449	449	404	400
ENRICO FERMI-2	2507	2039	2039	3000	3330	3330	3570	3570	3773	3773	472	510	510	503	609	609	652	652	600	600
FARLEY 1	1193	1254	1254	1314	1375	1375	1433	1493	1493	1541	550	570	570	605	634	634	660	600	600	710
FARLEY 2	903	1040	1093	1093	1150	1214	1214	1274	1321	1321	453	402	504	504	533	559	559	507	609	609
FITZPATRICK	3035	3035	3157	3303	3303	3449	3591	3591	3711	3033	551	551	572	590	590	624	650	650	671	692
FORT CALHOUN	042	042	071	007	007	943	977	1110	1110	1110	304	304	314	327	327	340	353	400	400	400
GINNA	910	940	900	994	1022	1143	1143	1143	1143	1143	320	330	343	352	361	401	401	401	401	401
GRAND GULF 1	2990	3227	3407	3407	3039	3059	3059	4070	4250	4250	533	573	605	605	640	605	605	723	755	755
GRAND GULF 2	930	930	1105	1374	1374	1010	1005	1005	2090	2329	100	100	199	247	247	290	333	333	373	415
HADDAM NECK	1242	1200	1445	1445	1445	1445	1445	1445	1445	1445	511	530	595	595	595	595	595	595	595	595
HARRIS 1	509	509	015	000	000	099	730	730	709	003	274	274	200	307	307	325	343	343	350	373
HATCH 1	3270	3270	3404	3550	3550	3700	3050	3050	4543	4543	007	007	031	059	059	007	715	715	042	042
HATCH 2	2033	2792	2910	2910	3070	3220	3220	3300	3505	3505	407	510	539	539	500	597	597	625	640	640
HOPE CREEK	2444	2043	2777	2777	2957	3149	3149	3329	3404	3404	440	403	507	507	540	575	575	007	635	635
HUMBOLDT BAY	390	390	390	390	390	390	390	390	390	390	29	29	29	29	29	29	29	29	29	29
INDIAN PT 1	100	100	100	100	100	100	100	100	100	100	31	31	31	31	31	31	31	31	31	31

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies										MTIM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
INDIAN PT 2	1121	1181	1181	1236	1296	1296	1350	1350	1508	1508	507	535	535	559	586	586	611	611	718	718
INDIAN PT 3	1840	1187	1159	1159	1226	1226	1287	1349	1349	1401	475	506	529	529	560	560	588	616	616	640
Kewaunee	1010	1043	1050	1098	1130	1161	1192	1221	1246	1307	388	400	410	421	433	445	457	488	477	523
LACROSSE	458	458	474	548	548	548	548	548	548	548	82	82	85	73	73	73	73	73	73	73
LASALLE CTY 1	2478	2609	2816	2816	3000	3188	3188	3371	3520	3520	461	486	513	513	547	581	581	614	641	641
LASALLE CTY 2	2606	2656	2858	3041	3233	3233	3411	3592	3592	3745	485	520	520	554	589	589	621	654	654	682
LIMERICK 1	2337	2524	2670	2670	2858	3035	3035	3212	3359	3359	418	451	477	477	510	542	542	573	599	599
LIMERICK 2	1704	1959	1959	2186	2344	2344	2500	2500	2743	2947	307	352	352	392	420	420	459	459	491	527
MAINE YANKEE	1620	1620	1670	1729	1729	1789	2000	2000	2000	2000	612	612	631	654	654	676	759	759	759	759
MCGUIRE 1	1059	1059	1102	1158	1211	1211	1282	1315	1359	1403	458	458	474	497	520	520	542	584	583	601
MCGUIRE 2	954	1010	1053	1053	1109	1163	1214	1214	1258	1302	410	434	452	452	478	498	520	520	539	557
MIDLAND-1	56	84	108	139	164	192	221	247	274	303	18	28	36	46	54	63	73	81	90	100
MIDLAND-2	348	400	444	444	491	544	544	594	648	700	161	185	206	206	227	252	252	275	299	324
WILLSTONE 1	3349	3524	3860	3860	3836	4418	4418	4418	4418	4418	611	642	666	666	697	801	801	801	801	801
WILLSTONE 2	1349	1412	1412	1471	1535	1535	1593	1652	1652	1702	541	567	587	591	617	617	640	664	664	685
WILLSTONE 3	904	908	1020	1020	1078	1137	1137	1193	1243	1243	417	447	471	471	497	525	525	551	574	574
MONTICELLO	1912	2007	2000	2171	2171	2262	2746	2746	2746	2746	337	354	386	382	382	398	481	481	481	481
NINE MILE PT1	2974	2974	3101	3101	3260	3792	3792	3792	3792	3792	536	536	558	558	585	675	675	675	675	675
NINE MILE PT2	1876	1676	2016	2016	2206	2206	2410	2410	2571	2571	315	315	339	339	371	371	406	406	433	433
NORTH ANNA 1	1039	1039	1002	1002	1138	1191	1191	1241	1283	1283	479	479	499	499	525	549	549	572	592	592
NORTH ANNA 2	903	950	1003	1003	1060	1113	1113	1183	1205	1205	417	443	463	463	489	514	514	537	556	556
OCONEE 1	1379	1431	1471	1521	1574	1574	1624	1673	1850	1850	639	663	681	704	729	729	752	775	857	857
OCONEE 2	1145	1198	1230	1239	1292	1342	1390	1390	1431	1606	531	555	574	574	599	622	644	644	663	745
OCONEE 3	1124	1124	1184	1213	1213	1283	1311	1360	1537	1537	521	521	540	562	562	586	600	630	712	712
OYSTER CRK 1	2982	3136	3253	3813	3813	3813	3813	3813	3813	3813	540	567	588	687	687	687	687	687	687	687
PALISADES	1220	1220	1267	1326	1326	1383	1507	1507	1507	1507	482	482	500	523	523	545	625	625	625	625
PALO VERDE 1	1129	1185	1228	1282	1338	1392	1445	1499	1544	1589	487	511	530	554	578	602	625	648	668	688
PALO VERDE 2	1132	1170	1211	1260	1309	1355	1403	1439	1479	1521	485	501	519	543	562	582	603	619	638	655
PALO VERDE 3	943	992	1024	1077	1122	1170	1210	1263	1302	1343	406	427	441	465	484	505	526	546	563	581
PEACHBOTTOM 2	4000	4000	4244	4435	4435	4824	4811	4811	4907	5731	741	741	769	802	802	836	869	869	897	1032
PEACHBOTTOM 3	3800	4000	4000	4247	4436	4436	4813	4790	5554	5554	705	738	738	770	804	804	835	867	1002	1002
PERRY 1	2763	2909	2909	3115	3276	3276	3461	3598	3598	3748	503	530	530	567	597	597	630	655	655	682
PERRY 2	2076	2076	2241	2494	2494	2726	2971	2971	3182	3182	378	378	406	454	454	496	541	541	579	579
PILGRIM 1	2743	2743	2874	2874	3043	3043	3201	3781	3781	3781	490	490	521	521	551	551	579	682	682	682
POINT BEACH 1	900	1000	1030	1055	1084	1205	1205	1205	1205	1205	371	381	388	397	408	451	451	451	451	451
POINT BEACH 2	957	964	1006	1031	1059	1064	1109	1230	1230	1230	359	369	377	386	398	405	414	457	457	457
PRAIRIE ISL 1	976	1011	1036	1071	1107	1140	1173	1206	1326	1326	360	372	382	393	406	418	430	441	484	484
PRAIRIE ISL 2	972	1007	1034	1066	1101	1134	1167	1200	1226	1348	358	371	380	392	404	416	427	439	449	492
QUAD CITIES 1	3070	3209	3317	3317	3457	3591	3591	3723	4435	4435	556	581	600	600	625	648	648	672	797	797
QUAD CITIES 2	3207	3346	3346	3463	3621	3621	3754	3867	4611	4611	582	606	606	630	655	655	678	701	829	829
RANCHO SECO-1	1005	1059	1059	1110	1160	1160	1210	1261	1261	1302	485	490	490	513	536	536	560	583	583	602
ROBINSON 2	872	914	914	965	1007	1057	1214	1214	1214	1214	372	390	390	411	429	450	516	516	516	516
RVR BEND 1	2361	2361	2504	2679	2679	2852	3023	3023	3165	3311	437	437	463	496	496	520	559	559	585	612
SALEM UNIT 2	1110	1191	1191	1262	1336	1336	1404	1473	1473	1531	513	547	547	579	613	613	645	678	678	704
SALEM 1	1235	1309	1366	1366	1440	1510	1510	1579	1637	1637	567	601	627	627	661	693	693	725	752	752
SAN ONOFRE 1	572	572	608	765	765	765	765	765	765	765	212	212	225	283	283	283	283	283	283	283
SAN ONOFRE 2	952	952	1012	1086	1086	1161	1161	1235	1235	1290	403	403	429	461	461	493	493	524	524	551
SAN ONOFRE 3	950	956	1019	1019	1097	1097	1170	1170	1232	1232	406	406	432	432	465	465	496	496	523	523
SEABROOK 1	742	790	823	823	867	915	964	1007	1045	1045	342	365	380	380	400	422	445	465	482	482
SEABROOK 2	179	233	281	342	396	454	454	506	561	610	83	100	130	158	183	209	209	233	259	285

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies										MTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
SEQUOIA 1	940	1010	1064	1064	1134	1134	1199	1265	1265	1320	431	484	488	488	521	521	550	581	581	606
SEQUOIA 2	920	1000	1055	1055	1126	1126	1191	1257	1257	1318	428	481	488	488	519	519	549	579	579	604
SHOREHAM	1430	1430	1549	1608	1608	1830	1943	1943	2056	2187	261	261	282	310	310	334	364	375	375	399
SOUTH TEXAS, UNIT 1	782	812	843	887	921	957	996	1025	1055	1088	423	439	456	480	490	518	539	555	571	589
SOUTH TEXAS, UNIT 2	678	718	745	787	823	862	900	935	965	997	387	389	403	426	445	467	487	508	522	540
ST LUCIE 1	1387	1387	1350	1419	1419	1481	1542	1542	1591	1644	497	497	517	540	540	564	587	587	606	626
ST LUCIE 2	906	971	1019	1019	1082	1142	1142	1201	1250	1250	350	375	393	393	418	441	441	484	483	483
SUMMER 1	891	891	937	993	993	1049	1104	1104	1150	1198	412	412	433	459	459	485	511	511	532	554
SURRY 1	1072	1118	1118	1180	1205	1205	1245	1402	1402	1402	490	511	511	530	551	551	589	641	641	641
SURRY 2	990	990	1033	1075	1075	1118	1150	1314	1314	1314	450	450	472	491	491	511	530	601	601	601
SUSQUEHANNA 1	2026	3021	3175	3175	3370	3550	3550	3741	3894	3894	497	630	557	557	591	623	623	655	681	681
SUSQUEHANNA 2	2529	2629	2783	2974	2974	3160	3346	3346	3499	3657	481	481	488	521	521	553	585	585	611	639
3 MILE ISL 1	909	1032	1081	1081	1144	1203	1203	1262	1311	1487	449	479	501	501	530	558	558	585	608	690
TROJAN	1171	1213	1245	1285	1327	1387	1407	1447	1480	1514	539	559	573	592	611	630	648	687	682	698
TURKEY PT 3	981	981	1014	1048	1048	1086	1120	1277	1277	1277	448	448	483	479	479	496	512	584	584	584
TURKEY PT 4	907	1009	1009	1045	1086	1086	1122	1180	1317	1317	442	481	481	477	496	496	513	530	602	602
VOGTLE 1	830	895	948	948	1004	1063	1063	1120	1172	1172	383	413	436	436	483	496	496	517	541	541
VOGTLE 2	720	783	834	834	892	951	951	1008	1059	1059	332	361	385	385	412	439	439	465	489	489
VT YANKEE 1	2776	2776	2803	2971	2971	3077	3183	3551	3551	3551	513	513	529	549	549	588	587	655	655	655
WASH NUCLEAR 2	2797	2938	3045	3180	3321	3454	3585	3716	3825	3938	497	522	541	585	589	613	636	659	678	698
WATERFORD 3	1015	1008	1008	1100	1201	1201	1344	1419	1419	1489	421	455	455	490	524	524	558	589	589	618
WATTS BAR 1	605	600	600	735	788	788	847	847	903	952	279	307	307	339	384	384	391	391	417	439
WATTS BAR 2	613	613	602	731	731	789	789	834	880	880	283	283	305	337	337	364	364	385	408	408
WNP-1	116	221	284	284	355	451	451	530	530	620	52	101	130	130	162	206	206	242	242	283
WNP-3	789	871	914	983	1029	1097	1164	1216	1270	1332	337	373	391	422	442	471	501	523	547	574
WOLF CREEK 1	641	683	915	955	997	1037	1076	1110	1149	1183	390	409	424	443	462	481	499	517	533	548
YANKEE-ROWE 1	649	649	649	649	649	649	649	649	649	649	154	154	154	154	154	154	154	154	154	154
ZION 1	1320	1303	1432	1432	1495	1555	1555	1613	1600	1600	603	632	654	654	683	710	710	737	825	825
ZION 2	1330	1338	1387	1440	1440	1508	1507	1507	1600	1600	610	610	633	661	661	688	715	715	825	825
BRUNSWICK 1 PWR	160	160	160	160	160	160	160	160	160	160	71	71	71	71	71	71	71	71	71	71
BRUNSWICK 2 PWR	144	144	144	144	144	144	144	144	144	144	66	66	66	66	66	66	66	66	66	66
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	290	290	290	290	290	290	290	290	290	290
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	85	85	85	85	85	85	85	85	85	85	11	11	11	11	11	11	11	11	11	11
WEST VALLEY-P	120	120	120	120	120	120	120	120	120	120	47	47	47	47	47	47	47	47	47	47
BWR GENERIC	2072	2053	3854	5834	7238	8992	11610	13994	16077	20485	378	521	705	1063	1317	1637	2117	2553	3075	3729
PWR GENERIC	1482	2263	3079	4330	5703	7144	9045	11162	13435	16305	670	1029	1300	1948	2550	3179	4014	4936	5929	7187
TOTAL GENERIC	3534	5116	6933	10164	12941	16136	20655	25158	30312	36770	1048	1550	2101	3011	3867	4816	6131	7489	9004	10916

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies					WTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
ARK NUCLEAR 1	1358	1358	1358	1358	1358	629	629	629	629	629
ARK NUCLEAR 2	1225	1288	1337	1337	1392	511	533	557	557	588
B VALLEY 1	1618	1667	1667	1667	1667	698	768	768	768	768
B VALLEY 2	894	945	945	983	1036	412	436	436	463	477
BELLEFONTE 1	629	629	761	764	764	287	287	326	349	349
BELLEFONTE 2	725	725	793	855	855	331	331	362	398	398
BIG ROCK 1	558	558	558	558	558	73	73	73	73	73
BRAIDWOOD 1	1275	1275	1335	1379	1379	539	539	565	583	583
BRAIDWOOD 2	1222	1222	1286	1329	1329	517	517	544	562	562
BROWNS FERRY1	4828	4828	4828	4828	4828	845	845	845	845	845
BROWNS FERRY2	4948	4948	4948	4948	4948	983	983	983	983	983
BROWNS FERRY3	4172	4936	4936	4936	4936	781	899	899	899	899
BRUNSWICK 1	3688	3588	3588	3588	3588	653	653	653	653	653
BRUNSWICK 2	3989	3989	3989	3989	3989	744	744	744	744	744
BYRON 1	1358	1424	1495	1495	1562	574	682	832	832	881
BYRON 2	1198	1248	1248	1292	1351	583	528	528	547	571
CALLAWAY 1	1549	1618	1618	1678	1749	681	891	891	716	746
CALVERT CLF 1	1865	1865	1865	1865	1865	787	787	787	787	787
CALVERT CLF 2	1599	1671	1887	1887	1887	685	633	714	714	714
CATAWBA 1	1316	1316	1371	1412	1483	557	557	588	597	619
CATAWBA 2	1176	1223	1223	1257	1302	497	517	517	532	551
CLINTON 1	3486	3486	3585	3781	3781	623	623	652	676	676
COMANCHE PK 1	1449	1497	1537	1579	1625	688	619	835	852	871
COMANCHE PK 2	1289	1336	1385	1419	1466	624	543	562	578	595
COOK 1	1982	1982	1982	1982	1982	881	881	881	881	881
COOK 2	1899	1788	1842	2035	2035	788	734	764	842	842
COOPER STN	4848	4848	4848	4848	4848	742	742	742	742	742
CRYSTAL RVR 3	1218	1265	1442	1442	1442	581	587	689	689	689
DAVIS-BESSE 1	1178	1217	1268	1444	1444	546	578	594	657	657
DIABLO CANYON-1	1359	1448	1448	1511	1511	624	661	681	694	694
DIABLO CANYON-2	1382	1382	1391	1391	1478	598	598	639	639	679
DRESDEN 1	883	883	883	883	883	78	78	78	78	78
DRESDEN 2	4353	4353	4353	4353	4353	751	751	751	751	751
DRESDEN 3	4335	4335	4335	4335	4335	748	748	748	748	748
DUANE ARNOLD	3822	3822	3822	3822	3822	543	543	543	543	543
ENRICO FERMI-2	3985	4214	4214	4484	4484	726	788	788	883	883
FARLEY 1	1593	1758	1758	1758	1758	734	687	887	887	887
FARLEY 2	1373	1427	1427	1473	1526	633	658	858	879	784
FITZPATRICK	4393	4393	4393	4393	4393	792	792	792	792	792
FORT CALHOUN	1118	1118	1118	1118	1118	488	488	488	488	488
GINNA	1143	1143	1143	1143	1143	481	481	481	481	481
GRAND GULF 1	4445	4652	4652	4824	5036	788	825	825	855	892
GRAND GULF 2	2329	2584	2797	2797	3042	415	457	498	498	541
HADDAM NECK	1445	1445	1445	1445	1445	595	595	595	595	595
HARRIS 1	883	839	889	889	986	373	398	484	484	421
HATCH 1	4543	4543	4543	4543	4543	842	842	842	842	842
HATCH 2	3837	3782	3782	3982	4482	673	788	788	722	826
HOPE CREEK	3648	3831	3831	3978	4157	685	699	699	724	758
HUMBOLDT BAY	398	398	398	398	398	29	29	29	29	29
INDIAN PT 1	188	188	188	188	188	31	31	31	31	31

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
INDIAN PT 2	1588	1588	1588	1588	1588	718	718	718	718	718
INDIAN PT 3	1594	1594	1594	1594	1594	728	728	728	728	728
KENAUWEE	1387	1387	1387	1387	1387	523	523	523	523	523
LACROSSE	546	546	546	546	546	73	73	73	73	73
LASALLE CTY 1	3878	3851	3851	3993	4187	678	701	701	727	759
LASALLE CTY 2	3982	3982	4088	4229	4229	718	718	744	778	778
LIMERICK 1	3513	3882	3882	3822	3994	627	657	657	681	712
LIMERICK 2	2947	3145	3145	3324	3545	527	582	582	594	833
MAINE YANKEE	2886	2886	2886	2886	2886	759	759	759	759	759
MCGUIRE 1	1483	1453	1506	1547	1547	601	623	645	682	682
MCGUIRE 2	1348	1398	1398	1439	1498	577	598	598	615	637
MIDLAND-1	331	359	388	414	442	189	118	128	137	148
MIDLAND-2	788	753	867	867	868	324	349	374	374	398
MILLSTONE 1	4418	4418	4418	4418	4418	881	881	881	881	881
MILLSTONE 2	1919	1919	1919	1919	1919	773	773	773	773	773
MILLSTONE 3	1295	1357	1357	1488	1458	598	626	626	646	673
MONTICELLO	2748	2748	2748	2748	2748	481	481	481	481	481
NINE MILE PT1	3792	3792	3792	3792	3792	675	675	675	675	675
NINE MILE PT2	2748	2748	2948	2948	3141	482	482	497	497	538
NORTH ANNA 1	1327	1375	1531	1531	1831	612	634	788	788	788
NORTH ANNA 2	1249	1297	1297	1336	1387	578	599	599	617	648
OCONEE 1	1858	1858	1858	1858	1858	857	857	857	857	857
OCONEE 2	1888	1888	1888	1888	1888	745	745	745	745	745
OCONEE 3	1537	1537	1537	1537	1537	712	712	712	712	712
OYSTER CRK 1	3813	3813	3813	3813	3813	687	687	687	687	687
PALISADES	1587	1587	1587	1587	1587	625	625	625	625	625
PALO VERDE 1	1636	1687	1741	1782	1833	788	738	754	772	794
PALO VERDE 2	1565	1612	1649	1898	1735	874	694	718	726	748
PALO VERDE 3	1383	1428	1476	1511	1556	598	618	639	654	674
PEACHBOTTOM 2	5731	5731	5731	5731	5731	1832	1832	1832	1832	1832
PEACHBOTTOM 3	5554	5554	5554	5554	5554	1882	1882	1882	1882	1882
PERRY 1	3748	3928	4186	4186	4282	682	714	748	748	788
PERRY 2	3488	3824	3824	3827	4088	619	666	688	697	739
PILGRIM 1	3781	3781	3781	3781	3781	682	682	682	682	682
POINT BEACH 1	1285	1285	1285	1285	1285	451	451	451	451	451
POINT BEACH 2	1238	1238	1238	1238	1238	457	457	457	457	457
PRAIRIE ISL 1	1326	1326	1326	1326	1326	484	484	484	484	484
PRAIRIE ISL 2	1348	1348	1348	1348	1348	492	492	492	492	492
QUAD CITIES 1	4435	4435	4435	4435	4435	797	797	797	797	797
QUAD CITIES 2	4611	4611	4611	4611	4611	829	829	829	829	829
RANCHO SECO-1	1479	1479	1479	1479	1479	684	684	684	684	684
ROBINSON 2	1214	1214	1214	1214	1214	518	518	518	518	518
RVR BEND 1	3311	3474	3852	3852	3819	612	643	678	678	786
SALEM UNIT 2	1691	1591	1682	1717	1717	732	732	765	798	798
SALEM 1	1697	1783	1958	1958	1958	779	889	898	898	898
SAN ONOFRE 1	785	785	785	785	785	283	283	283	283	283
SAN ONOFRE 2	1298	1389	1389	1426	1426	551	581	581	606	606
SAN ONOFRE 3	1298	1387	1387	1425	1425	558	581	581	605	605
SEABROOK 1	1888	1131	1188	1214	1268	581	522	544	588	581
SEABROOK 2	673	728	728	784	843	311	336	338	382	389

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

REACTOR	Assemblies					MTIM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
SEQUOIA 1	1377	1377	1443	1443	1507	632	632	662	662	692
SEQUOIA 2	1310	1372	1438	1438	1502	604	633	663	663	692
SHOREHAM	2187	2293	2427	2427	2550	399	418	442	442	467
SOUTH TEXAS, UNIT 1	1121	1180	1190	1224	1259	607	628	644	662	681
SOUTH TEXAS, UNIT 2	1029	1063	1102	1130	1168	557	575	596	612	631
ST LUCIE 1	1861	1861	1861	1861	1861	709	709	709	709	709
ST LUCIE 2	1301	1357	1357	1403	1450	503	525	525	543	565
SUMMER 1	1198	1251	1307	1307	1351	554	579	595	605	630
SURRY 1	1402	1402	1402	1402	1402	641	641	641	641	641
SURRY 2	1314	1314	1314	1314	1314	601	601	601	601	601
SUSQUEHANNA 1	4055	4232	4232	4378	4550	709	740	740	765	796
SUSQUEHANNA 2	3657	3834	4024	4024	4205	639	669	702	702	733
3 MILE ISL 1	1487	1487	1487	1487	1487	690	690	690	690	690
TROJAN	1549	1742	1742	1742	1742	714	803	803	803	803
TURKEY PT 3	1277	1277	1277	1277	1277	584	584	584	584	584
TURKEY PT 4	1317	1317	1317	1317	1317	602	602	602	602	602
VOGTLE 1	1224	1287	1287	1331	1389	505	594	594	614	641
VOGTLE 2	1112	1174	1174	1219	1278	513	542	542	562	590
VT YANKEE 1	3551	3551	3551	3551	3551	655	655	655	655	655
WASH NUCLEAR 2	4052	4170	4313	4416	4544	710	740	784	782	805
WATERFORD 3	1554	1554	1640	1699	1699	645	645	681	706	706
WATTS BAR 1	952	1001	1001	1051	1097	439	462	462	465	506
WATTS BAR 2	933	933	979	1031	1031	430	430	452	476	476
WNP-1	707	707	702	872	872	323	323	361	390	390
WNP-3	1391	1451	1509	1503	1632	600	620	651	675	705
WOLF CREEK 1	1217	1255	1295	1328	1364	584	582	600	615	632
YANKEE-ROWE 1	849	849	849	849	849	154	154	154	154	154
ZION 1	1800	1800	1800	1800	1800	825	825	825	825	825
ZION 2	1800	1800	1800	1800	1800	825	825	825	825	825
BRUNSWICK 1 PWR	160	160	160	160	160	71	71	71	71	71
BRUNSWICK 2 PWR	144	144	144	144	144	66	66	66	66	66
HARRIS 1 BWR POOL	0	0	0	0	0	0	0	0	0	0
MORRIS-BWR	1527	1527	1527	1527	1527	290	290	290	290	290
MORRIS-PWR	350	350	350	350	350	132	132	132	132	132
WEST VALLEY-B	85	85	85	85	85	11	11	11	11	11
WEST VALLEY-P	120	120	120	120	120	47	47	47	47	47
BWR GENERIC	24495	20790	33794	38853	44347	4483	5246	6158	7078	8081
PWR GENERIC	19002	23139	27285	31563	35875	8856	10160	11971	13822	15678
TOTAL GENERIC	44177	51935	61079	70416	80222	13119	15406	18129	20900	23759

TABLE A.4. Upper Reference Case, 1985 Inventory and Projected Inventory to 2020 (contd)

		SUBTOTALS BY REACTOR TYPE AND TOTALS										
		1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
PWR	ASSEMBLY	17882	20128	22443	25236	28352	31588	34484	37726	40848	43543	46981
PWR	MTIHM	7558	8538	9538	10729	12085	13456	14733	16183	17517	18888	20157
BWR	ASSEMBLY	28833	30375	33391	36972	41893	44589	48588	52858	58452	61859	64585
BWR	MTIHM	5895	5514	6082	6719	7454	8082	8885	9587	10213	11043	11673
TOTAL	ASSEMBLY	46895	50503	55834	62268	69445	76077	83058	90578	97292	104602	111486
TOTAL	MTIHM	12851	14051	15600	17439	19539	21539	23538	25731	27731	29730	31830
		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
PWR	ASSEMBLY	49738	52768	55797	58727	61871	64933	67788	70953	74524	77955	
PWR	MTIHM	21387	22788	24811	25289	26681	28088	29241	30632	32288	33728	
BWR	ASSEMBLY	68889	72872	76881	80633	84711	88367	92844	97145	101329	105688	
BWR	MTIHM	12443	13124	13818	14531	15259	15912	16678	17488	18232	19088	
TOTAL	ASSEMBLY	118627	125440	132398	139360	146582	153380	160484	168098	175853	183555	
TOTAL	MTIHM	33830	35830	37821	39821	41920	43920	45920	48120	50439	52728	
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
PWR	ASSEMBLY	81821	85931	89798	93994	98818	103589	108859	114738	120328	126548	
PWR	MTIHM	35322	37222	38912	40738	42857	44915	47285	49777	52249	54958	
BWR	ASSEMBLY	111181	115845	120716	127799	133871	140883	148135	154371	163961	172183	
BWR	MTIHM	19998	20798	21787	22981	24081	25383	26812	27748	29487	30958	
TOTAL	ASSEMBLY	192802	201576	210506	221793	232689	244372	256994	269181	284289	298723	
TOTAL	MTIHM	55320	58020	60619	63719	66918	70218	73817	77517	81718	85918	
		2016	2017	2018	2019	2020						
PWR	ASSEMBLY	132758	138878	145511	151878	157921						
PWR	MTIHM	57877	60373	63276	66828	68659						
BWR	ASSEMBLY	179275	187824	193831	200581	209158						
BWR	MTIHM	32238	33642	34839	36886	37653						
TOTAL	ASSEMBLY	312025	325900	339142	352371	367077						
TOTAL	MTIHM	89915	94014	98114	102113	106313						

TABLE A.5. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Annual Storage Requirements

POOL	ASSEMBLIES										MTIM									
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
SURRY 1&2	48	0	82	93	44	51	94	43	44	94	22	0	38	43	28	23	43	28	28	43
PALISADES	0	4	0	58	58	0	61	0	57	0	0	2	0	23	23	0	24	0	22	0
OCONEE 1&2	0	55	58	51	182	58	186	58	188	53	0	25	23	24	47	27	49	23	46	25
MILLSTONE 1	0	88	0	178	0	192	0	187	187	0	0	15	0	38	0	34	0	38	38	0
ST LUCIE 1	0	0	53	0	88	73	0	63	63	0	0	0	28	0	23	28	0	24	24	0
ROBINSON 2	0	0	0	0	7	48	0	51	48	0	0	0	0	0	3	28	0	21	17	0
BRUNSWICK 1	0	0	0	0	55	0	183	0	155	183	0	0	0	0	18	0	38	0	29	38
LASALLE CTY 1&2	0	0	0	0	0	135	389	184	183	388	0	0	0	0	0	25	71	33	33	71
PEACHBOTTOM 2	0	0	0	0	0	287	0	189	198	0	0	0	0	0	0	37	0	34	34	0
PEACHBOTTOM 3	0	0	0	0	0	5	192	0	177	198	0	0	0	0	0	1	35	0	31	34
PILGRIM 1	0	0	0	0	0	0	88	0	185	0	0	0	0	0	0	0	12	0	29	0
CALVERT CLF 1&2	0	0	0	0	0	0	0	28	77	81	0	0	0	0	0	0	0	0	29	38
BRUNSWICK 2	0	0	0	0	0	0	0	138	155	0	0	0	0	0	0	0	0	0	24	29
OCONEE 3	0	0	0	0	0	0	0	0	48	53	0	0	0	0	0	0	0	0	21	25
OYSTER CRK 1	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	7	0
PRAIRIE ISL 1&2	0	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	0	2	25
INDIAN PT 2	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	7
COOPER STN	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	2
PWR TOTAL	48	59	185	282	271	228	281	227	433	388	22	27	88	89	116	98	118	95	183	154
BWR TOTAL	0	88	0	178	55	539	812	878	1238	751	0	15	0	38	18	97	148	121	222	137
TOTAL	48	145	185	372	326	767	1073	897	1883	1117	22	42	88	119	128	195	264	218	404	291

TABLE A.5. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
SURRY 1&2	39	43	86	41	44	83	37	48	87	36	18	20	39	19	28	38	17	22	40	17
PALISADES	50	0	55	53	0	54	0	81	56	0	19	0	21	21	0	21	0	24	22	0
OCONEE 1&2	90	96	0	94	183	96	0	189	92	84	42	44	0	44	48	44	0	50	43	39
WILLSTONE 1	149	0	183	0	171	180	0	180	0	140	26	0	29	0	30	28	0	32	0	25
ST LUCIE 1	56	61	0	59	88	0	54	89	0	53	21	23	0	23	25	0	21	26	0	20
ROBINSON 2	38	48	0	37	41	0	43	44	40	0	16	26	0	16	18	0	18	19	17	0
BRUNSWICK 1	0	148	149	0	158	0	131	187	0	129	0	28	28	0	30	0	24	31	0	24
LASALLE CTRY 1&2	163	176	354	173	188	350	166	199	368	153	30	32	64	31	34	64	28	36	67	28
PEACHBOTTOM 2	169	183	0	179	195	0	181	205	0	168	30	32	0	32	35	0	29	36	0	28
PEACHBOTTOM 3	0	172	177	0	182	172	0	194	179	0	0	30	31	0	32	30	0	34	32	0
PILGRIM 1	0	154	0	152	0	156	0	173	0	135	0	27	0	27	0	28	0	30	0	24
CALVERT CLF 1&2	68	73	74	72	78	72	86	84	76	64	26	27	28	27	29	27	24	32	29	24
BRUNSWICK 2	137	0	150	145	0	147	131	0	154	129	26	0	28	27	0	27	24	0	29	24
OCONEE 3	0	48	49	47	0	47	42	0	50	42	0	22	23	22	0	22	19	0	23	19
OYSTER CRK 1	130	120	0	128	0	139	121	0	147	119	23	21	0	23	0	25	21	0	26	21
PRAIRIE ISL 1&2	29	64	64	63	68	32	56	73	66	56	10	23	23	22	24	11	20	26	23	20
INDIAN PT 2	0	54	0	54	58	0	48	0	57	48	0	24	0	24	26	0	22	0	26	22
COOPER STN	86	90	94	87	96	88	79	101	92	76	16	16	17	16	17	16	14	18	17	14
ZION 1&2	32	58	58	113	61	57	102	66	60	101	15	27	27	52	28	26	47	30	27	46
BYRON 1&2	103	87	88	117	72	72	100	76	87	105	44	28	29	49	30	30	46	32	28	44
B VALLEY 1	25	59	0	50	63	0	51	67	0	51	12	27	0	27	29	0	24	31	0	24
WILLSTONE 2	27	59	58	0	62	58	0	66	60	0	11	24	24	0	25	24	0	27	24	0
LIMERICK 1	62	0	175	170	0	171	153	0	180	150	11	0	31	30	0	30	27	0	32	27
POINT BEACH 1&2	42	51	51	50	55	50	45	57	53	45	15	18	18	18	19	18	16	20	19	18
BRAIDWOOD 1&2	0	5	136	0	151	145	0	122	134	0	0	2	50	0	64	61	0	52	57	0
BIG ROCK 1	0	2	16	15	16	16	0	18	16	14	0	0	2	2	2	2	0	2	2	2
MAINE YANKEE	0	8	0	57	63	0	52	67	0	51	0	3	0	22	24	0	20	25	0	19
FORT CALHOUN	0	34	0	33	38	0	31	41	0	38	0	12	0	12	14	0	11	15	0	11
SEQUOYAH 1&2	0	46	65	83	137	0	113	73	87	112	0	21	30	29	63	0	52	34	31	52
DAVIS-BESSE 1	0	47	0	47	52	0	42	55	0	42	0	22	0	22	24	0	20	26	0	20
LACROSSE	0	0	12	0	21	0	16	0	20	0	0	0	2	0	3	0	3	0	3	0
ENRICO FERMI-2	0	0	130	0	247	0	200	259	0	204	0	0	24	0	45	0	37	47	0	37
NINE MILE PT1	0	0	126	0	159	0	131	0	153	0	0	0	22	0	27	0	22	0	26	0
SAN ONOFRE 1,2,&3	0	0	65	64	120	71	100	81	116	63	0	0	26	27	49	30	41	35	48	27
HADDAM NECK	0	0	0	20	0	42	38	48	0	37	0	0	0	0	0	17	16	20	0	15
COOK 1&2	0	0	0	4	143	64	62	73	73	118	0	0	0	2	62	29	25	34	29	51
FITZPATRICK	0	0	0	32	150	0	124	159	0	123	0	0	0	6	27	0	22	28	0	22
SALEM 1	0	0	0	3	0	67	59	0	70	59	0	0	0	1	0	31	27	0	32	27
ARK NUCLEAR 1	0	0	0	0	35	0	39	0	46	46	0	0	0	0	16	0	18	0	21	19
DRESDEN 2	0	0	0	0	0	125	0	142	132	0	0	0	0	0	1	21	0	24	22	0
DUANE ARNOLD	0	0	0	0	34	0	86	100	0	89	0	0	0	0	0	0	15	19	0	18
WASH NUCLEAR 2	0	0	0	0	133	128	113	145	134	111	0	0	0	0	23	23	20	26	24	20
PERRY 1&2	0	0	0	0	0	42	200	536	183	127	0	0	0	0	0	0	36	98	30	23
NORTH ANNA 1&2	0	0	0	0	0	16	90	58	53	90	0	0	0	0	0	7	42	27	24	42
KEWAUNEE	0	0	0	0	0	18	26	34	31	26	0	0	0	0	0	7	10	13	12	10
DRESDEN 3	0	0	0	0	0	0	46	0	131	109	0	0	0	0	0	0	0	0	22	18
LIMERICK 2	0	0	0	0	0	0	82	0	236	110	0	0	0	0	0	0	15	0	42	20
ARK NUCLEAR 2	0	0	0	0	0	0	0	45	0	47	0	0	0	0	0	0	0	19	0	20

TABLE A.5. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
CLINTON 1	0	0	0	0	0	0	0	58	141	0	0	0	0	0	0	0	0	11	28	0
GINNA	0	0	0	0	0	0	0	26	27	22	0	0	0	0	0	0	0	9	9	7
RANCHO SEC0-1	0	0	0	0	0	0	0	1	50	0	0	0	0	0	0	0	0	0	23	0
BROWNS FERRY3	0	0	0	0	0	0	0	47	0	160	0	0	0	0	0	0	0	9	0	29
VT YANKEE 1	0	0	0	0	0	0	0	74	0	98	0	0	0	0	0	0	0	14	0	16
HATCH 1&2	0	0	0	0	0	0	0	0	26	257	0	0	0	0	0	0	0	0	5	48
SUSQUEHANNA 1&2	0	0	0	0	0	0	0	0	30	312	0	0	0	0	0	0	0	0	5	54
SALEM UNIT 2	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	0	0	31	0
ST LUCIE 2	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	19
PWR TOTAL	597	921	829	1149	1510	1644	1304	1544	1501	1471	248	389	345	486	638	445	553	646	640	628
BWR TOTAL	896	1045	1546	1881	1760	1694	1936	2766	2380	2693	161	188	276	193	314	382	347	496	488	518
TOTAL	1493	1966	2375	2230	3270	2738	3240	4309	3881	4364	409	578	623	679	952	747	901	1142	1048	1146

TABLE A.5. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										MTIM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
SURRY 1&2	46	46	35	84	45	43	80	155	0	0	21	21	16	39	21	29	37	72	0	0
PALISADES	50	0	47	50	0	57	0	0	0	0	23	0	18	23	0	22	0	0	0	0
OCONEE 1&2	0	105	81	50	100	50	98	49	218	0	0	49	38	23	49	23	45	23	101	0
WILLSTONE 1	0	175	136	0	176	0	0	0	0	0	0	31	24	0	31	0	0	0	0	0
ST LUCIE 1	60	0	51	81	0	82	61	0	49	53	25	0	19	23	0	24	23	0	19	20
ROBINSON 2	52	42	0	51	42	50	0	0	0	0	21	18	0	21	18	20	0	0	0	0
BRUNSWICK 1	181	0	128	0	0	0	0	0	0	0	30	0	24	0	0	0	0	0	0	0
LASALLE CTY 1&2	190	382	147	105	382	182	178	384	149	153	35	70	27	34	70	33	32	66	27	28
PEACHBOTTOM 2	200	0	150	191	0	180	187	0	150	0	35	0	20	34	0	34	33	0	28	0
PEACHBOTTOM 3	180	100	0	181	180	0	177	177	0	0	33	33	0	32	34	0	31	31	0	0
PILGRIM 1	0	0	131	0	100	0	150	0	0	0	0	0	23	0	30	0	28	0	0	0
CALVERT CLF 1&2	81	00	82	75	81	77	75	76	81	279	30	30	23	28	30	29	28	29	23	105
BRUNSWICK 2	0	102	128	0	181	163	0	152	128	0	0	30	24	0	30	29	0	28	24	0
OCONEE 3	52	0	40	40	0	50	48	49	0	0	24	0	19	23	0	23	22	23	0	0
OYSTER CRK 1	0	154	117	0	0	0	0	0	0	0	0	27	21	0	0	0	0	0	0	0
PRAIRIE ISL 1&2	30	70	54	65	71	60	66	66	148	0	13	25	19	23	25	23	23	23	52	0
INDIAN PT 2	0	60	0	55	60	0	54	0	45	0	0	27	0	25	27	0	24	0	20	0
COOPER STN	90	91	73	84	99	84	88	84	74	0	18	17	13	15	18	15	16	15	13	0
ZION 1&2	64	63	98	81	83	120	59	58	241	0	29	29	45	28	29	55	27	27	110	0
BYRON 1&2	73	63	99	70	50	131	69	56	100	50	31	27	42	30	25	55	29	24	45	25
B VALLEY 1	63	0	49	61	84	0	58	60	0	52	29	0	23	28	30	0	27	28	0	24
WILLSTONE 2	84	63	0	50	64	0	58	50	0	50	26	26	0	24	26	0	24	24	0	20
LIMERICK 1	0	187	146	0	186	179	0	177	147	0	0	33	26	0	33	32	0	31	26	0
POINT BEACH 1&2	57	55	44	50	57	140	25	0	0	0	20	20	16	16	20	52	9	0	0	0
BRAIDWOOD 1&2	131	128	0	127	116	0	126	112	0	103	55	54	0	54	49	0	53	47	0	44
MAINE YANKEE	63	0	50	50	0	60	0	0	0	0	24	0	19	22	0	23	0	0	0	0
FORT CALHOUN	39	0	29	36	0	36	34	0	0	0	14	0	10	13	0	13	12	0	0	0
SEQUOYAH 1&2	0	141	100	0	141	0	130	132	0	108	0	65	50	0	65	0	60	61	0	50
DAVIS-BESSE 1	53	0	41	50	0	50	50	0	41	42	25	0	19	23	0	23	23	0	19	19
LACROSSE	21	0	18	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0
ENRICO FERMI-2	0	252	0	247	252	0	230	0	197	0	0	48	0	45	40	0	43	0	38	0
NINE MILE PT1	181	0	127	0	150	0	0	0	0	0	28	0	22	0	27	0	0	0	0	0
SAN ONOFRE 1,2, &3	201	0	157	231	70	75	73	74	62	63	63	0	65	90	33	32	31	32	28	27
HADDAM NECK	40	40	0	0	0	0	0	0	0	0	19	19	0	0	0	0	0	0	0	0
COOK 1&2	60	70	115	67	77	60	72	130	54	253	32	31	50	31	31	30	29	50	25	113
FITZPATRICK	153	0	122	140	0	140	142	0	120	122	27	0	22	26	0	26	25	0	21	22
SALEM 1	0	74	57	0	74	70	0	69	56	0	0	34	20	0	34	32	0	32	27	0
ARK NUCLEAR 1	0	50	0	47	0	47	47	0	39	0	0	23	0	22	0	22	22	0	10	0
DRESDEN 2	137	137	0	135	0	0	0	0	0	0	23	23	0	23	0	0	0	0	0	0
DUANE ARNOLD	100	0	82	99	0	100	99	0	83	86	19	0	15	18	0	16	18	0	15	15
WASH NUCLEAR 2	139	139	100	135	141	133	131	131	109	113	24	24	19	24	25	23	23	23	19	20
PERRY 1&2	499	140	165	459	161	232	430	137	211	150	91	27	30	83	29	42	70	25	38	27
NORTH ANNA 1&2	55	50	87	0	113	100	0	100	84	0	25	26	40	0	52	49	0	46	39	0
KEWAUNEE	33	33	25	30	32	31	31	29	25	0	13	13	9	11	12	12	12	11	9	0
DRESDEN 3	0	137	107	0	137	131	0	0	0	0	0	23	18	0	23	22	0	0	0	0
LIMERICK 2	0	255	0	227	158	0	210	0	183	204	0	45	0	40	28	0	38	0	32	36
ARK NUCLEAR 2	0	59	47	0	59	0	55	57	0	45	0	24	20	0	24	0	23	24	0	19
CLINTON 1	180	123	0	175	130	0	152	119	0	130	33	22	0	32	25	0	20	22	0	24

TABLE A.5. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES										WTHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
GINNA	28	28	22	26	28	0	0	0	0	0	9	9	7	9	9	0	0	0	0	0
RANCHO SECO-1	51	54	0	51	58	0	50	51	0	41	24	25	0	24	23	0	23	24	0	19
BROWNS FERRY3	201	0	156	0	201	190	0	180	0	150	36	0	28	0	36	34	0	34	0	29
VT YANKEE 1	112	0	87	100	0	100	100	0	0	0	21	0	16	20	0	19	19	0	0	0
HATCH 1&2	162	159	250	152	160	304	150	152	810	0	30	30	40	20	30	50	20	20	150	0
SUSQUEHANNA 1&2	197	195	300	191	195	372	180	185	300	150	34	34	53	33	34	64	32	32	53	27
SALEM UNIT 2	73	73	0	71	74	0	68	69	0	50	34	34	0	33	34	0	31	33	0	27
ST LUCIE 2	0	63	48	0	63	60	0	59	49	0	0	25	19	0	25	23	0	23	19	0
PALO VERDE 1	41	50	43	54	50	54	53	54	45	45	18	24	19	24	24	24	23	24	20	20
PALO VERDE 2	44	36	41	55	43	40	40	36	40	42	19	17	18	24	19	20	21	16	17	18
TURKEY PT 1&2	85	42	33	70	41	30	70	195	0	0	30	19	15	32	19	17	32	90	0	0
BROWNS FERRY1&2	100	0	311	303	0	379	0	370	312	704	20	0	50	70	0	89	0	88	57	139
WATTS BAR 1&2	90	81	49	130	53	50	59	45	102	49	40	28	23	64	24	27	27	21	47	23
FARLEY 1	0	4	0	60	61	0	58	60	0	48	0	2	0	28	20	0	27	20	0	22
CRYSTAL RVR 3	0	3	0	60	0	59	0	60	0	48	0	1	0	28	0	27	0	28	0	22
VOGTLE 1&2	0	0	101	0	110	110	0	114	103	0	0	0	47	0	54	54	0	53	40	0
TOJAN	0	0	30	40	42	40	40	40	39	34	0	0	14	10	19	10	10	10	15	10
INDIAN PT 3	0	0	35	0	67	0	61	62	0	52	0	0	18	0	31	0	20	20	0	24
CALLAWAY 1	0	0	30	0	84	73	0	80	60	0	0	0	10	0	30	31	0	34	25	0
RVR BEND 1	0	0	0	131	0	173	171	0	142	140	0	0	0	24	0	32	32	0	20	27
WATERFORD 3	0	0	0	31	61	0	63	75	0	70	0	0	0	13	34	0	34	31	0	29
MONTECELLO	0	0	0	44	0	91	0	0	0	0	0	0	0	0	0	10	0	0	0	0
PALO VERDE 3	0	0	0	0	34	40	40	45	39	41	0	0	0	0	15	21	21	20	17	10
QUAD CITIES 1&2	0	0	0	0	240	134	133	205	712	0	0	0	0	0	44	24	23	47	125	0
DIABLO CANYON-1	0	0	0	0	0	67	0	65	0	70	0	0	0	0	0	31	0	39	0	35
WNP-3	0	0	0	0	0	9	67	52	54	62	0	0	0	0	0	4	29	23	24	27
DIABLO CANYON-2	0	0	0	0	0	0	24	0	70	0	0	0	0	0	0	0	11	0	32	0
FARLEY 2	0	0	0	0	0	0	0	24	47	0	0	0	0	0	0	0	0	11	22	0
MCGUIRE 1	0	0	0	0	0	0	0	45	44	44	0	0	0	0	0	0	0	19	19	19
HOPE CREEK	0	0	0	0	0	0	0	117	155	0	0	0	0	0	0	0	0	21	20	0
WOLF CREEK 1	0	0	0	0	0	0	0	0	2	34	0	0	0	0	0	0	0	0	1	10
SEABROOK 1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0
SUMMER 1	0	0	0	0	0	0	0	0	31	40	0	0	0	0	0	0	0	0	14	22
COMANCHE PK 1&2	0	0	0	0	0	0	0	0	30	84	0	0	0	0	0	0	0	0	15	34
MCGUIRE 2	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	14
SHOREHAM	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	11
PWR TOTAL	1804	1732	1817	2153	2294	2063	2090	2591	1900	2014	702	743	779	910	994	881	911	1143	869	869
BWR TOTAL	3014	2800	2990	3273	3312	3270	2942	2624	3992	2240	540	515	537	500	592	500	529	473	720	405
TOTAL	4810	4612	4815	5426	5606	5341	5040	5215	5890	4260	1303	1250	1310	1504	1586	1409	1440	1610	1589	1274

TABLE A.5. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
LASALLE CTY 1&2	316	173	188	283	174	57	31	34	52	32
CALVERT CLF 1&2	0	72	0	0	0	0	27	0	0	0
BYRON 1&2	52	124	71	44	128	22	52	30	19	53
B VALLEY 1	53	0	0	0	0	24	0	0	0	0
LIMERICK 1	154	169	0	140	172	27	30	0	25	30
BRAIDWOOD 1&2	164	0	124	87	0	44	0	52	37	0
SEQUOYAH 1&2	57	62	132	0	128	26	29	61	0	59
DAVIS-BESSE 1	0	47	51	0	0	0	22	24	0	0
ENRICO FERMI-2	212	229	0	190	0	39	42	0	35	0
SAN ONOFRE 1,2,&3	64	142	0	115	0	27	61	0	49	0
COOK 1&2	0	69	74	0	0	0	28	30	0	0
SALEM 1	66	66	0	0	0	28	30	0	0	0
WASH NUCLEAR 2	114	126	135	103	128	20	22	24	18	23
PERRY 1&2	210	396	166	203	499	40	72	34	37	74
NORTH ANNA 1&2	88	96	158	39	51	41	44	72	18	24
LIMERICK 2	0	198	0	179	221	0	35	0	32	39
ARK NUCLEAR 2	0	56	57	0	56	0	23	24	0	23
CLINTON 1	142	0	159	136	0	26	0	29	25	0
BROWNS FERRY3	154	0	0	0	0	30	0	0	0	0
HATCH 1&2	132	145	0	120	0	25	27	0	22	0
SUSQUEHANNA 1&2	161	354	190	146	301	28	61	33	25	62
SALEM UNIT 2	60	0	71	55	0	28	0	33	25	0
ST LUCIE 2	51	56	0	46	57	20	22	0	18	22
PALO VERDE 1	47	51	54	41	51	21	22	24	18	22
PALO VERDE 2	44	47	37	41	45	19	21	18	18	20
WATTS BAR 1&2	53	49	46	102	46	24	23	21	47	21
FARLEY 1	52	0	0	0	0	24	0	0	0	0
CRYSTAL RVR 3	0	55	0	0	0	0	25	0	0	0
VOGTLE 1&2	105	125	0	89	117	40	58	0	41	54
TROJAN	35	0	0	0	0	16	0	0	0	0
CALLAWAY 1	67	69	0	60	71	28	29	0	25	30
RVR BEND 1	0	163	178	0	167	0	30	33	0	31
WATERFORD 3	85	0	80	59	0	27	0	30	25	0
PALO VERDE 3	40	45	48	35	45	17	20	21	15	20
DIABLO CANYON-1	0	81	0	71	0	0	37	0	33	0
WNP-3	59	60	58	54	69	26	26	25	24	30
DIABLO CANYON-2	77	0	89	0	87	35	0	41	0	40
FARLEY 2	52	54	0	46	55	24	25	0	21	25
MCGUIRE 1	0	50	53	41	0	0	21	22	17	0
HOPE CREEK	164	183	0	139	187	30	33	0	25	34
WOLF CREEK 1	34	38	40	31	38	16	18	19	14	18
SEABROOK 1	41	45	49	34	40	19	21	23	16	21
SUMNER 1	0	53	56	0	54	0	25	20	0	25
COMANCHE PK 1&2	83	95	89	70	93	33	36	35	31	37
MCGUIRE 2	40	50	0	41	51	19	21	0	17	22
SHOREHAM	0	100	134	0	132	0	19	24	0	24
GRAND GULF 1	97	207	0	172	212	17	36	0	30	37
B VALLEY 2	0	14	0	36	52	0	6	0	18	24

TABLE A.5. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES					WTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
B VALLEY 2	0	14	0	38	52	0	6	0	18	24
BELLEFONTE 2	0	0	0	2	0	0	0	0	1	0
PWR TOTAL	1489	1770	1441	1247	1337	858	774	834	548	598
BWR TOTAL	1873	2449	1168	1811	2183	338	440	211	326	387
TOTAL	3362	4219	2609	3058	3520	996	1213	845	872	977

TABLE A.6. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements

POOL	ASSEMBLIES										WTHM									
	1985	1987	1988	1989	1990	1991	1992	1993	1994	1995	1985	1987	1988	1989	1990	1991	1992	1993	1994	1995
SURRY 1&2	48	48	138	223	267	318	412	465	499	593	22	22	88	182	122	148	189	209	229	272
PALISADES	0	4	4	62	128	128	181	181	238	238	0	2	2	24	47	47	71	71	93	93
OCONEE 1&2	0	55	185	158	258	318	422	472	572	625	0	25	49	72	119	148	195	219	285	289
MILLSTONE 1	0	88	88	258	258	448	448	615	782	782	0	15	15	45	45	88	88	189	139	139
ST LUCIE 1	0	0	53	53	113	186	186	249	312	312	0	0	28	28	42	78	78	94	118	118
ROBINSON 2	0	0	0	0	7	53	53	184	144	144	0	0	0	0	3	23	23	44	61	61
BRUNSWICK 1	0	0	0	0	55	55	218	218	373	538	0	0	0	0	18	18	41	41	78	108
LASALLE CTY 1&2	0	0	0	0	0	135	524	788	891	1279	0	0	0	0	0	25	95	129	162	233
PEACHBOTTOM 2	0	0	0	0	0	287	287	398	588	588	0	0	0	0	0	37	37	71	184	184
PEACHBOTTOM 3	0	0	0	0	0	5	197	197	374	564	0	0	0	0	0	1	35	35	87	181
PILGRIM 1	0	0	0	0	0	0	88	88	233	233	0	0	0	0	0	0	12	12	41	41
CALVERT CLF 1&2	0	0	0	0	0	0	0	29	97	178	0	0	0	0	0	0	0	0	38	67
BRUNSWICK 2	0	0	0	0	0	0	0	138	285	285	0	0	0	0	0	0	0	24	53	53
OCONEE 3	0	0	0	0	0	0	0	0	48	99	0	0	0	0	0	0	0	0	21	46
OYSTER CRK 1	0	0	0	0	0	0	0	0	38	38	0	0	0	0	0	0	0	0	7	7
PRAIRIE ISL 1&2	0	0	0	0	0	0	0	0	8	78	0	0	0	0	0	0	0	0	2	27
INDIAN PT 2	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	7
COOPER STN	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	2
PWR TOTAL	48	187	292	494	785	993	1264	1481	1914	2288	22	49	129	218	334	432	548	643	828	988
BWR TOTAL	0	88	88	258	311	858	1882	2332	3582	4313	0	15	15	45	58	152	388	421	643	788
TOTAL	48	193	378	758	1878	1843	2916	3813	5476	6593	22	64	145	264	398	585	848	1065	1489	1788

TABLE A.6. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
SURRY 1&2	632	675	761	802	846	929	966	1014	1101	1137	290	310	349	368	388	426	443	465	505	522
PALISADES	268	288	343	396	396	450	450	511	567	567	112	112	134	154	154	175	175	199	221	221
OCONEE 1&2	716	811	811	905	1000	1104	1104	1213	1305	1389	331	375	375	419	467	511	511	562	604	643
MILLSTONE 1	931	931	1094	1094	1265	1425	1425	1605	1605	1745	166	166	195	195	225	253	253	285	285	310
ST LUCIE 1	308	429	429	488	554	554	608	677	677	730	140	163	163	186	211	211	231	256	256	278
ROBINSON 2	180	220	228	265	306	306	349	393	433	433	77	97	97	113	131	131	148	167	185	185
BRUNSWICK 1	536	684	833	833	991	991	1122	1289	1289	1418	160	120	156	156	185	185	210	241	241	265
LASALLE CTY 1&2	1442	1618	1972	2145	2333	2683	2839	3038	3464	3557	202	295	359	390	425	488	517	553	620	647
PEACHBOTTOM 2	755	938	938	1117	1312	1312	1473	1678	1678	1836	134	167	167	198	233	233	261	290	298	326
PEACHBOTTOM 3	564	730	913	913	1095	1267	1267	1461	1646	1646	101	131	162	162	195	225	225	260	291	291
PILGRIM 1	233	307	387	539	539	695	695	888	888	1003	41	60	60	95	95	123	123	153	153	177
CALVERT CLF 1&2	246	319	393	465	543	615	880	764	840	904	93	120	148	175	204	231	256	287	316	340
BRUNSWICK 2	422	422	572	717	717	884	995	995	1149	1278	79	79	107	134	134	162	186	186	215	239
OCONEE 3	99	147	196	243	243	290	332	332	382	424	46	68	91	113	113	134	154	154	177	196
OYSTER CRK 1	168	288	288	418	418	555	676	676	823	942	30	51	51	73	73	98	119	119	145	166
PRAIRIE ISL 1&2	105	100	233	298	364	396	452	525	591	647	37	60	83	105	129	140	160	186	209	229
INDIAN PT 2	15	69	69	123	181	181	229	229	286	334	7	31	31	56	82	82	103	103	129	151
COOPER STN	96	168	200	367	483	551	630	731	823	899	17	34	51	67	84	100	115	133	150	164
ZION 1&2	32	90	148	261	322	379	481	547	607	708	15	41	68	119	147	173	220	250	277	324
BYRON 1&2	163	170	238	355	427	499	506	684	751	856	44	72	101	150	181	211	257	289	318	362
B VALLEY 1	25	84	84	142	205	205	258	323	323	374	12	30	39	65	95	95	118	149	149	172
MILLSTONE 2	27	86	144	144	206	264	284	330	390	390	11	35	59	59	84	107	107	134	159	159
LIMERICK 1	82	82	237	407	407	570	731	731	911	1061	11	11	42	72	72	102	130	130	162	188
POINT BEACH 1&2	42	93	144	194	249	299	344	401	454	499	15	33	51	69	88	106	122	142	161	177
BRAIDWOOD 1&2	0	5	141	141	292	437	437	559	693	693	0	2	60	60	124	185	185	236	293	293
BIG ROCK 1	0	2	18	33	51	67	87	85	101	115	0	0	2	4	7	9	9	11	13	15
MAINE YANKEE	0	0	0	85	128	128	180	247	247	298	0	3	3	25	49	49	68	94	94	113
FORT CALHOUN	0	34	34	87	105	105	130	177	177	207	0	12	24	38	38	49	64	64	75	75
SEQUOYAH 1&2	0	40	111	174	311	311	424	497	564	678	0	21	51	80	143	143	195	229	260	311
DAVIS-BESSE 1	0	47	47	94	148	148	188	243	243	285	0	22	22	44	88	88	88	114	114	133
LACROSSE	0	0	12	12	33	33	49	49	69	69	0	0	2	2	5	5	8	8	11	11
ENRICO FERMI-2	0	0	130	130	377	377	583	842	842	1040	0	0	24	24	89	89	100	153	153	190
NINE MILE PT1	0	0	120	120	285	285	410	410	509	509	0	0	22	22	49	49	71	71	98	98
SAN ONOFRE 1,2,3	0	0	85	129	249	320	420	501	619	682	0	0	26	54	102	133	173	208	256	283
HADDAM NECK	0	0	0	20	20	82	100	148	148	185	0	0	0	8	8	26	41	61	61	76
COOK 1&2	0	0	0	4	147	211	273	340	419	537	0	0	0	2	63	93	110	151	181	232
FITZPATRICK	0	0	0	32	102	102	306	485	485	588	0	0	0	6	32	32	54	83	83	104
SALEM 1	0	0	0	3	3	76	129	129	199	258	0	0	0	1	1	32	59	59	91	118
ARK NUCLEAR 1	0	0	0	0	35	35	74	74	128	160	0	0	0	0	16	16	34	34	56	74
DRESDEN 2	0	0	0	0	0	133	133	275	407	407	0	0	0	0	1	22	22	40	68	68
DUANE ARNOLD	0	0	0	0	34	34	120	220	220	317	0	0	0	0	0	0	21	41	41	56
WASH NUCLEAR 2	0	0	0	0	133	261	374	519	653	764	0	0	0	0	23	40	66	91	115	135
PERRY 1&2	0	0	0	0	0	42	242	770	941	1000	0	0	0	0	0	0	44	142	171	194
NORTH ANNA 1&2	0	0	0	0	0	10	100	164	217	307	0	0	0	0	0	7	49	76	100	142
KEWAUNEE	0	0	0	0	0	18	44	78	109	135	0	0	0	0	0	7	17	30	41	51
DRESDEN 3	0	0	0	0	0	0	40	40	177	208	0	0	0	0	0	0	8	8	30	48
LIMERICK 2	0	0	0	0	0	0	82	82	310	420	0	0	0	0	0	0	15	15	56	76
ARK NUCLEAR 2	0	0	0	0	0	0	0	45	45	92	0	0	0	0	0	0	0	19	19	38

TABLE A.6. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
CLINTON 1	0	0	0	0	0	0	0	58	199	199	0	0	0	0	0	0	0	11	36	36
GINNA	0	0	0	0	0	0	0	26	53	76	0	0	0	0	0	0	0	9	17	25
RANCHO SECO-1	0	0	0	0	0	0	0	1	51	51	0	0	0	0	0	0	0	0	24	24
BROWNS FERRY3	0	0	0	0	0	0	0	47	47	207	0	0	0	0	0	0	0	9	9	38
VT YANKEE 1	0	0	0	0	0	0	0	74	74	162	0	0	0	0	0	0	0	14	14	30
HATCH 1&2	0	0	0	0	0	0	0	0	26	283	0	0	0	0	0	0	0	0	5	53
SUSQUEHANNA 1&2	0	0	0	0	0	0	0	0	30	342	0	0	0	0	0	0	0	0	5	59
SALEM UNIT 2	0	0	0	0	0	0	0	0	68	68	0	0	0	0	0	0	0	0	31	31
ST LUCIE 2	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	19
PWR TOTAL	2877	3798	4627	5776	7286	8336	9634	11178	12679	14158	1228	1816	1961	2447	3085	3538	4084	4738	5369	5997
BWR TOTAL	5209	6254	7800	8881	10641	12335	14271	17838	19336	22229	941	1129	1487	1660	1914	2216	2563	3059	3467	3985
TOTAL	8086	10052	12427	14657	17927	20665	23905	28214	32015	36379	2169	2745	3368	4047	5000	5746	6647	7788	8836	9982

TABLE A.6. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
SURRY 1&2	1183	1229	1264	1348	1393	1436	1518	1672	1672	1672	543	564	586	619	639	659	696	767	767	787
PALISADES	826	826	873	732	732	789	789	789	789	789	244	244	262	285	285	307	307	307	307	307
OCONEE 1&2	1389	1494	1576	1626	1731	1781	1879	1928	2146	2146	643	692	729	752	801	825	870	893	994	994
WILLSTONE 1	1745	1920	2056	2056	2232	2232	2232	2232	2232	2232	310	341	366	366	397	397	397	397	397	397
ST LUCIE 1	796	796	847	908	908	970	1031	1031	1080	1133	303	303	323	346	346	370	393	393	412	432
ROBINSON 2	485	527	527	578	620	670	670	670	670	670	200	224	224	245	264	284	284	284	284	284
BRUNSWICK 1	1579	1579	1705	1705	1705	1705	1705	1705	1705	1705	295	295	319	319	319	319	319	319	319	319
LASALLE CTRY 1&2	3747	4129	4278	4481	4843	5025	5203	5587	5716	5809	682	752	778	812	882	915	947	1013	1040	1068
PEACHBOTTOM 2	2036	2036	2192	2383	2383	2572	2759	2759	2915	2915	381	381	389	423	423	458	489	489	517	517
PEACHBOTTOM 3	1828	2014	2014	2196	2384	2384	2581	2738	2738	2738	325	358	358	390	423	423	455	486	486	486
PILGRIM 1	1003	1003	1134	1134	1303	1303	1461	1461	1461	1461	177	177	200	200	230	230	258	258	258	258
CALVERT CLF 1&2	985	1005	1127	1202	1283	1360	1435	1511	1672	1851	371	401	424	452	483	512	540	568	591	697
BRUNSWICK 2	1278	1440	1566	1566	1727	1880	1880	2032	2158	2158	239	269	293	293	323	352	352	380	404	404
OCONEE 3	476	476	516	565	565	615	663	712	712	712	220	220	239	262	262	285	307	330	330	330
OYSTER CRK 1	942	1090	1213	1213	1213	1213	1213	1213	1213	1213	166	194	214	214	214	214	214	214	214	214
PRAIRIE ISL 1&2	683	753	807	872	943	1009	1075	1141	1209	1209	242	267	286	309	334	358	381	404	457	457
INDIAN PT 2	334	394	394	449	509	509	563	563	608	608	151	176	176	203	230	230	254	254	274	274
COOPER STN	997	1000	1161	1246	1344	1426	1516	1600	1674	1674	182	198	212	227	245	260	276	292	305	305
ZION 1&2	772	835	933	994	1067	1177	1236	1294	1535	1535	353	382	426	454	483	538	565	591	701	701
BYRON 1&2	929	992	1091	1161	1219	1356	1419	1476	1581	1639	393	420	461	491	516	571	600	624	669	693
B VALLEY 1	437	437	486	547	611	611	669	729	729	701	201	201	224	252	262	262	308	336	336	360
WILLSTONE 2	454	517	517	578	640	640	698	757	757	807	185	210	210	234	260	260	284	308	308	328
LIMERICK 1	1061	1246	1394	1394	1588	1759	1759	1936	2083	2083	160	221	247	247	260	312	312	343	369	369
POINT BEACH 1&2	558	611	655	705	762	906	933	933	933	933	197	217	233	250	271	322	331	331	331	331
BRAIDWOOD 1&2	824	952	952	1079	1195	1195	1321	1433	1433	1536	340	403	403	458	505	505	559	606	606	650
BIG ROCK 1	115	115	115	115	115	115	115	115	115	115	15	15	15	15	15	15	15	15	15	15
MAINE YANKEE	381	381	411	470	470	530	530	530	530	530	137	137	150	179	179	202	202	202	202	202
FORT CALHOUN	240	240	275	311	311	347	381	381	381	381	89	89	99	112	112	125	137	137	137	137
SEQUOYAH 1&2	576	617	920	920	1067	1067	1197	1329	1329	1437	311	376	426	426	491	491	551	612	612	661
DAVIS-BESSE 1	338	338	379	429	429	479	529	529	570	612	150	150	177	201	201	224	248	248	267	288
LACROSSE	90	90	100	100	100	100	100	100	100	100	15	15	17	17	17	17	17	17	17	17
ENRICO FERMI-2	1046	1290	1290	1545	1797	1797	2035	2035	2232	2232	190	236	236	261	327	327	370	370	405	405
NINE MILE PT1	730	730	857	857	1016	1016	1016	1016	1016	1016	125	125	147	147	174	174	174	174	174	174
SAN ONOFRE 1,2, &3	883	883	1040	1271	1349	1424	1497	1571	1633	1696	366	366	431	521	554	586	617	649	676	702
HADDAM NECK	231	277	277	277	277	277	277	277	277	277	95	114	114	114	114	114	114	114	114	114
COOK 1&2	606	682	797	864	941	1067	1079	1217	1271	1524	263	294	344	374	405	436	465	524	549	662
FITZPATRICK	741	741	863	1009	1009	1155	1297	1297	1417	1539	132	132	153	179	179	205	230	230	252	273
SALEM 1	258	332	389	389	463	533	533	602	660	660	118	152	179	179	213	245	245	276	303	303
ARK NUCLEAR 1	160	210	210	257	257	304	351	351	390	390	74	97	97	119	119	141	163	163	181	181
DRESDEN 2	544	601	601	616	616	616	616	616	616	616	91	114	114	137	137	137	137	137	137	137
DUANE ARNOLD	423	423	505	604	604	704	803	803	886	972	75	75	90	100	100	125	143	143	158	173
WASH NUCLEAR 2	983	1042	1151	1206	1427	1560	1691	1622	1931	2044	159	183	203	226	251	275	298	321	340	360
PERRY 1&2	1507	1713	1878	2337	2490	2730	3160	3297	3500	3858	285	312	342	425	454	497	575	600	638	665
NORTH ANNA 1&2	382	418	505	505	616	724	724	824	900	900	107	193	233	233	266	334	334	381	419	419
KEWAUNEE	160	201	220	250	288	319	350	379	404	404	84	78	86	97	109	121	133	144	153	153
DRESDEN 3	280	423	530	530	607	790	790	790	790	790	48	71	89	89	112	134	134	134	134	134
LIMERICK 2	426	603	603	910	1000	1000	1204	1204	1407	1671	76	121	121	161	189	189	228	228	280	296
ARK NUCLEAR 2	92	151	190	190	257	257	312	369	369	414	38	63	82	82	107	107	130	153	153	172

TABLE A.6. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										WTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CLINTON 1	379	502	502	577	815	815	907	1000	1000	1218	89	92	92	124	149	149	177	198	198	222
GINNA	103	131	153	179	207	207	207	207	207	207	34	43	50	50	60	60	60	60	60	60
RANCHO SECO-1	102	150	150	207	257	257	307	350	350	399	47	72	72	90	119	119	142	165	165	184
BROWNS FERRY3	400	400	504	504	765	955	955	1143	1143	1301	74	74	102	102	139	173	173	200	200	236
VT YANKEE 1	274	274	361	409	409	575	601	601	601	601	50	50	60	60	60	100	125	125	125	125
HATCH 1&2	445	604	654	1000	1100	1470	1620	1772	2502	2502	83	112	159	167	210	273	301	329	479	479
SUSQUEHANNA 1&2	539	734	1042	1233	1428	1800	1900	2171	2477	2635	93	127	180	213	247	311	343	375	420	455
SALEM UNIT 2	141	214	214	205	350	350	427	490	490	554	05	90	90	131	105	105	190	229	229	255
ST LUCIE 2	49	112	100	100	223	203	203	342	391	391	19	44	02	02	07	110	110	133	152	152
PALO VERDE 1	41	97	140	194	250	304	357	411	450	501	10	42	01	05	100	133	150	179	199	219
PALO VERDE 2	44	02	123	178	221	207	315	351	391	433	19	30	54	78	90	110	137	153	171	189
TURKEY PT 1&2	05	107	140	210	251	209	359	554	554	554	30	49	04	90	115	133	165	254	254	254
BROWNS FERRY1&2	109	109	420	003	003	1102	1102	1550	1870	2034	20	20	70	140	140	215	215	283	340	470
WATTS BAR 1&2	99	100	200	347	400	450	517	502	004	713	40	74	90	100	105	211	239	259	300	329
FARLEY 1	0	4	4	04	125	125	183	243	243	291	0	2	2	30	50	50	84	112	112	134
CRYSTAL RVR 3	0	3	3	03	03	122	122	182	182	230	0	1	1	29	29	57	57	84	84	107
VOGTLE 1&2	0	0	101	101	217	335	335	440	552	552	0	0	47	47	100	155	155	207	255	255
TROJAN	0	0	30	70	112	152	192	232	265	299	0	0	14	32	52	70	09	107	122	130
INDIAN PT 3	0	0	35	35	102	102	103	225	225	277	0	0	10	10	47	47	74	103	103	120
CALLAWAY 1	0	0	30	30	122	195	195	275	335	335	0	0	10	10	52	02	02	110	142	142
RVR BEND 1	0	0	0	131	131	304	475	475	017	703	0	0	0	24	24	50	00	00	114	141
WATERFORD 3	0	0	0	31	112	112	195	270	270	340	0	0	0	13	47	47	01	112	112	141
MONTICELLO	0	0	0	44	135	135	135	135	135	135	0	0	0	0	0	23	23	23	23	23
PALO VERDE 3	0	0	0	0	34	02	130	175	214	255	0	0	0	0	15	30	57	70	93	111
QUAD CITIES 1&2	0	0	0	0	240	302	515	700	1492	1492	0	0	0	0	44	07	91	137	203	203
DIABLO CANYON-1	0	0	0	0	0	07	07	152	152	220	0	0	0	0	0	31	31	70	70	105
WNP-3	0	0	0	0	0	9	70	120	182	244	0	0	0	0	0	4	33	50	79	100
DIABLO CANYON-2	0	0	0	0	0	0	24	24	94	94	0	0	0	0	0	0	11	11	43	43
FARLEY 2	0	0	0	0	0	0	0	24	71	71	0	0	0	0	0	0	0	11	33	33
MCGUIRE 1	0	0	0	0	0	0	0	45	09	133	0	0	0	0	0	0	0	19	30	50
HOPE CREEK	0	0	0	0	0	0	0	117	272	272	0	0	0	0	0	0	0	21	49	49
WOLF CREEK 1	0	0	0	0	0	0	0	0	2	30	0	0	0	0	0	0	0	0	1	17
SEABROOK 1	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	1	1
SUMMER 1	0	0	0	0	0	0	0	0	31	79	0	0	0	0	0	0	0	0	14	37
COMANCHE PK 1&2	0	0	0	0	0	0	0	0	30	120	0	0	0	0	0	0	0	0	15	40
MCGUIRE 2	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	14
SHOREHAM	0	0	0	0	0	0	0	0	0	02	0	0	0	0	0	0	0	0	0	11
PWR TOTAL	15954	17000	19503	21050	23950	26013	28111	30702	32090	34704	0700	7503	8202	9190	10192	11073	11904	13127	13990	14005
BWR TOTAL	25243	20123	31121	34394	37700	40904	43920	40550	50542	52700	4520	5040	5577	0105	0757	7340	7074	0347	9007	9472
TOTAL	41197	45000	50024	50050	01050	00997	72037	77252	83232	07492	11205	12543	13059	15303	10949	10410	19050	21474	23003	24337

TABLE A.6. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
SURRY 1&2	1672	1672	1672	1672	1672	767	767	767	767	767
PALISADES	789	789	789	789	789	367	367	367	367	367
OCONEE 1&2	2146	2146	2146	2146	2146	994	994	994	994	994
MILLSTONE 1	2232	2232	2232	2232	2232	397	397	397	397	397
ST LUCIE 1	1133	1133	1133	1133	1133	432	432	432	432	432
ROBINSON 2	678	678	678	678	678	284	284	284	284	284
BRUNSWICK 1	1705	1705	1705	1705	1705	319	319	319	319	319
LASALLE CTY 1&2	6184	6357	6543	6826	7000	1126	1157	1191	1242	1274
PEACHBOTTOM 2	2915	2915	2915	2915	2915	517	517	517	517	517
PEACHBOTTOM 3	2738	2738	2738	2738	2738	486	486	486	486	486
PILGRIM 1	1461	1461	1461	1461	1461	258	258	258	258	258
CALVERT CLF 1&2	1851	1923	1923	1923	1923	697	724	724	724	724
BRUNSWICK 2	2158	2158	2158	2158	2158	484	484	484	484	484
OCONEE 3	712	712	712	712	712	330	330	330	330	330
OYSTER CRK 1	1213	1213	1213	1213	1213	214	214	214	214	214
PRAIRIE ISL 1&2	1289	1289	1289	1289	1289	457	457	457	457	457
INDIAN PT 2	688	688	688	688	688	274	274	274	274	274
COOPER STN	1674	1674	1674	1674	1674	385	385	385	385	385
ZION 1&2	1535	1535	1535	1535	1535	701	701	701	701	701
BYRON 1&2	1691	1815	1886	1936	2056	715	768	798	818	870
B VALLEY 1	834	834	834	834	834	384	384	384	384	384
MILLSTONE 2	807	807	807	807	807	328	328	328	328	328
LIMERICK 1	2237	2406	2406	2546	2718	397	427	427	451	482
POINT BEACH 1&2	933	933	933	933	933	331	331	331	331	331
BRAIDWOOD 1&2	1648	1648	1764	1851	1851	694	694	746	783	783
BIG ROCK 1	115	115	115	115	115	15	15	15	15	15
MAINE YANKEE	536	536	536	536	536	282	282	282	282	282
FORT CALHOUN	381	381	381	381	381	137	137	137	137	137
SEQUOIA 1&2	1494	1558	1608	1608	1816	688	716	777	777	836
DAVIS-BESSE 1	612	659	710	710	710	286	300	332	332	332
LACROSSE	100	100	100	100	100	17	17	17	17	17
ENRICO FERMI-2	2444	2673	2673	2863	2863	445	486	486	521	521
NINE MILE PT1	1016	1016	1016	1016	1016	174	174	174	174	174
SAN ONOFRE 1,2, &3	1760	1902	1902	2017	2017	730	790	790	840	840
HADDAM NECK	277	277	277	277	277	114	114	114	114	114
COOK 1&2	1524	1593	1667	1667	1667	682	690	720	720	720
FITZPATRICK	1539	1539	1539	1539	1539	273	273	273	273	273
SALEM 1	728	786	786	786	786	331	361	361	361	361
ARK NUCLEAR 1	390	390	390	390	390	181	181	181	181	181
DRESDEN 2	816	816	816	816	816	137	137	137	137	137
DUANE ARNOLD	972	972	972	972	972	173	173	173	173	173
WASH NUCLEAR 2	2158	2264	2419	2522	2650	380	402	426	444	467
PERRY 1&2	3876	4272	4458	4661	5070	705	777	811	848	922
NORTH ANNA 1&2	996	1092	1248	1287	1338	460	505	577	595	618
KEWAUNEE	484	484	484	484	484	153	153	153	153	153
DRESDEN 3	798	798	798	798	798	134	134	134	134	134
LIMERICK 2	1671	1869	1869	2048	2269	296	331	331	363	402
ARK NUCLEAR 2	414	469	526	526	581	172	195	218	218	241

TABLE A.6. Upper Reference Case, Maximum At-Reactor Capacity--
Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
CLINTON 1	1353	1358	1517	1653	1653	248	248	277	302	302
GINNA	287	287	287	287	287	88	88	88	88	88
RANCHO SECO-1	399	399	399	399	399	184	184	184	184	184
BROWNS FERRY3	1485	1485	1485	1485	1485	268	268	268	268	268
VT YANKEE 1	881	881	881	881	881	125	125	125	125	125
HATCH 1&2	2714	2859	2859	2979	2979	584	631	631	553	553
SUSQUEHANNA 1&2	2796	3158	3348	3486	3847	483	544	577	682	685
SALEM UNIT 2	814	814	885	748	748	283	283	318	341	341
ST LUCIE 2	442	498	498	544	681	172	194	194	212	234
PALO VERDE 1	548	599	653	694	745	239	281	285	343	325
PALO VERDE 2	477	524	581	682	847	288	229	245	263	282
TURKEY PT 1&2	554	554	554	554	554	254	254	254	254	254
BROWNS FERRY1&2	2634	2634	2634	2634	2634	478	478	478	478	478
WATTS BAR 1&2	788	815	861	963	1089	353	376	397	444	468
FARLEY 1	343	343	343	343	343	158	158	158	158	158
CRYSTAL RVR 3	238	285	285	285	285	187	132	132	132	132
VOGTLE 1&2	657	782	782	871	988	383	361	361	482	458
TROJAN	334	334	334	334	334	154	154	154	154	154
INDIAN PT 3	277	277	277	277	277	126	126	126	126	126
CALLAWAY 1	482	471	471	531	682	178	199	199	225	255
RVR BEND 1	783	928	1184	1184	1271	141	171	284	284	235
WATERFORD 3	485	485	491	558	558	188	188	284	229	229
MONTICELLO	135	135	135	135	135	23	23	23	23	23
PALO VERDE 3	295	348	388	423	468	129	148	169	185	284
QUAD CITIES 1&2	1492	1492	1492	1492	1492	283	283	283	283	283
DIABLO CANYON-1	228	389	389	388	388	185	142	142	174	174
WNP-3	363	363	421	475	544	132	168	184	287	237
DIABLO CANYON-2	171	171	268	268	347	78	78	119	119	159
FARLEY 2	123	177	177	223	278	57	82	82	183	128
MCGUIRE 1	133	183	236	277	277	58	77	108	117	117
HOPE CREEK	436	619	619	768	945	79	113	113	138	172
WOLF CREEK 1	78	188	148	179	217	32	58	69	83	181
SEABROOK 1	43	88	137	171	217	28	41	63	79	188
SUMMER 1	79	132	188	188	242	37	61	87	87	112
COMANCHE PK 1&2	283	298	387	483	558	82	128	158	187	224
MCGUIRE 2	78	128	128	189	228	33	54	54	71	93
SHOREHAM	82	188	382	382	434	11	31	55	55	79
GRAND GULF 1	97	384	384	478	688	17	54	54	84	121
B VALLEY 2	8	14	14	52	184	8	8	8	24	48
PWR TOTAL	36193	37963	39484	48651	41988	15522	16296	16938	17478	18886
BWR TOTAL	54861	57118	58278	68889	82252	9818	18258	18488	18786	11173
TOTAL	98854	95873	97862	188748	184248	25332	28546	27398	28282	29239

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Annual Storage Requirements

POOL	ASSEMBLIES										MTIHM									
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
PALISADES	0	4	0	58	58	0	61	0	57	0	0	2	0	23	23	0	24	0	22	0
MILLSTONE 1	0	86	0	178	0	192	0	167	167	0	0	15	0	38	0	34	0	38	38	0
PILGRIM 1	0	0	0	0	0	0	88	0	185	0	0	0	0	0	0	0	12	0	29	0
CALVERT CLF 1&2	0	0	0	0	0	0	0	28	77	81	0	0	0	0	0	0	0	8	29	38
OYSTER CRK 1	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	7	0
PRAIRIE ISL 1&2	0	0	0	0	0	0	0	0	8	78	0	0	0	0	0	0	0	0	2	25
NORTH ANNA 1&2	0	0	0	0	0	0	0	0	51	57	0	0	0	0	0	0	0	0	24	28
SURRY 1&2	0	0	0	0	0	0	0	0	0	94	0	0	0	0	0	0	0	0	0	43
INDIAN PT 2	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	7
COOPER STN	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	2
LIMERICK 1	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	8
LIMERICK 2	0	0	0	0	0	0	0	0	0	217	0	0	0	0	0	0	0	0	0	48
PWR TOTAL	0	4	0	58	58	0	61	28	191	317	0	2	0	23	23	0	24	8	77	132
BWR TOTAL	0	86	0	178	0	192	88	167	378	271	0	15	0	38	0	34	12	38	86	49
TOTAL	0	90	0	228	58	192	129	187	581	588	0	17	0	53	23	34	36	37	142	181

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Annual Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MILLSTONE 1	149	0	183	0	171	180	0	188	0	140	28	0	29	0	30	28	0	32	0	25
PILGRIM 1	0	154	0	152	0	150	0	173	0	135	0	27	0	27	0	28	0	30	0	24
CALVERT CLF 1&2	68	73	74	72	70	72	65	84	76	84	26	27	28	27	29	27	24	32	29	24
OYSTER CRK 1	130	120	0	128	0	130	121	0	147	119	23	21	0	23	0	25	21	0	26	21
PRAIRIE ISL 1&2	29	84	84	83	88	32	56	73	88	58	10	23	23	22	24	11	28	26	23	28
NORTH ANNA 1&2	97	52	52	100	55	51	90	58	53	90	45	24	24	46	25	24	42	27	24	42
SURRY 1&2	39	43	88	41	44	83	37	48	87	38	10	20	39	19	20	38	17	22	40	17
INDIAN PT 2	0	54	0	54	58	0	48	0	57	48	0	24	0	24	28	0	22	0	26	22
COOPER STN	86	90	94	87	90	88	79	101	92	78	16	16	17	16	17	16	14	18	17	14
LIMERICK 1	161	0	175	170	0	171	153	0	180	150	29	0	31	30	0	30	27	0	32	27
PEACHBOTTOM 2	169	163	0	179	195	0	161	205	0	158	30	32	0	32	35	0	29	36	0	28
PEACHBOTTOM 3	0	172	177	0	182	172	0	194	179	0	0	30	31	0	32	30	0	34	32	0
LIMERICK 2	0	284	0	174	233	0	181	0	236	110	0	52	0	31	41	0	32	0	42	20
POINT BEACH 1&2	42	51	51	50	55	50	45	57	53	45	15	18	18	18	19	16	16	20	19	16
BRUNSWICK 1	0	138	149	0	150	0	131	167	0	129	0	26	28	0	30	0	24	31	0	24
BRUNSWICK 2	0	0	150	145	0	147	131	0	154	129	0	0	28	27	0	27	24	0	29	24
ZION 1&2	0	28	58	113	81	57	102	86	80	101	0	13	27	52	28	26	47	30	27	46
BYRON 1&2	0	67	88	117	72	72	109	76	87	105	0	26	29	49	30	30	48	32	28	44
BRAIDWOOD 1&2	0	170	136	0	151	145	0	122	134	0	0	72	58	0	54	61	0	52	57	0
BIG ROCK 1	0	2	18	15	18	18	0	18	16	14	0	0	2	2	2	2	0	2	2	2
MAINE YANKEE	0	0	0	57	63	0	52	87	0	51	0	3	0	22	24	0	20	25	0	19
FORT CALHOUN	0	34	0	33	38	0	31	41	0	30	0	12	0	12	14	0	11	15	0	11
DAVIS-BESSE 1	0	47	0	47	52	0	42	55	0	42	0	22	0	22	24	0	20	26	0	20
LACROSSE	0	0	12	0	21	0	16	0	20	0	0	0	2	0	3	0	3	0	3	0
ENRICO FERMI-2	0	0	130	0	247	0	208	259	0	204	0	0	24	0	45	0	37	47	0	37
SAN ONOFRE 1,2,&3	0	0	85	84	120	71	100	81	118	83	0	0	26	27	49	30	41	35	48	27
LASALLE CTY 1&2	0	0	0	100	180	350	156	199	388	153	0	0	0	19	34	64	28	38	87	28
DRESDEN 2	0	0	0	0	135	125	0	142	132	0	0	0	0	0	23	21	0	24	22	0
DRESDEN 3	0	0	0	0	0	125	112	0	131	109	0	0	0	0	0	21	19	0	22	18
QUAD CITIES 1&2	0	0	0	0	138	255	113	145	267	112	0	0	0	0	24	45	20	26	47	20
HADDAM NECK	0	0	0	20	0	42	38	48	0	37	0	0	0	0	0	17	16	20	0	15
ST LUCIE 2	0	0	0	27	0	58	51	0	60	50	0	0	0	11	0	23	20	0	23	19
TURKEY PT 1&2	0	0	0	0	41	38	34	88	40	33	0	0	0	0	19	17	16	40	18	15
ST LUCIE 1	0	0	0	0	66	0	54	69	0	53	0	0	0	0	25	0	21	26	0	20
COOK 1&2	0	0	0	4	143	64	62	73	73	118	0	0	0	2	62	29	25	34	29	51
FITZPATRICK	0	0	0	32	150	0	124	159	0	123	0	0	0	6	27	0	22	28	0	22
DUANE ARNOLD	0	0	0	0	34	0	88	108	0	89	0	0	0	0	0	0	15	19	0	16
WASH NUCLEAR 2	0	0	0	0	133	126	113	145	134	111	0	0	0	0	23	23	20	26	24	20
ARK NUCLEAR 2	0	0	0	0	0	18	0	62	0	47	0	0	0	0	0	7	0	20	0	20
ARK NUCLEAR 1	0	0	0	0	0	0	39	0	40	40	0	0	0	0	0	0	18	0	21	19
PERRY 1&2	0	0	0	0	0	42	200	538	163	127	0	0	0	0	0	0	36	98	36	23
KEWAUNEE	0	0	0	0	0	18	26	34	31	28	0	0	0	0	0	7	10	13	12	10
SALEM 1	0	0	0	0	0	0	50	0	70	59	0	0	0	0	0	0	23	0	32	27
SALEM UNIT 2	0	0	0	0	0	0	0	77	70	0	0	0	0	0	0	0	0	35	32	0
CLINTON 1	0	0	0	0	0	0	0	58	141	0	0	0	0	0	0	0	0	11	26	0
GINNA	0	0	0	0	0	0	0	26	27	22	0	0	0	0	0	0	0	9	9	7

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Annual Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIHM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
RANCHO SECO-1	0	0	0	0	0	0	0	1	58	0	0	0	0	0	0	0	0	0	23	0
VT YANKEE 1	0	0	0	0	0	0	0	74	0	88	0	0	0	0	0	0	0	14	0	18
HATCH 1&2	0	0	0	0	0	0	0	0	26	257	0	0	0	0	0	0	0	0	5	48
SUSQUEHANNA 1&2	0	0	0	0	0	0	0	0	38	312	0	0	0	0	0	0	0	0	5	54
B VALLEY 2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PWR TOTAL	275	891	854	882	1105	871	1131	1386	1238	1217	113	287	271	361	483	367	472	544	522	511
BWR TOTAL	895	1143	1666	1188	2897	2874	2883	2863	2414	2845	124	286	192	212	373	368	373	513	429	589
TOTAL	970	1634	1720	2050	3202	2945	3214	4169	3652	4062	237	492	463	573	856	735	845	1057	951	1019

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Annual Storage Requirements
(contd)

POOL	ASSEMBLIES										WTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MILLSTONE 1	0	175	136	0	178	0	0	0	0	0	0	31	24	0	31	0	0	0	0	0
PILGRIM 1	0	0	131	0	189	0	150	0	0	0	0	0	23	0	30	0	28	0	0	0
CALVERT CLF 1&2	81	86	62	75	81	77	75	78	61	279	30	30	23	28	30	29	28	29	23	105
OYSTER CRK 1	0	164	117	0	0	0	0	0	0	0	0	27	21	0	0	0	0	0	0	0
PRAIRIE ISL 1&2	36	70	54	65	71	68	68	66	148	0	13	25	19	23	25	23	23	23	52	0
NORTH ANNA 1&2	55	58	87	0	113	100	0	100	84	0	25	26	40	0	52	49	0	46	39	0
SURRY 1&2	46	46	35	64	45	43	80	156	0	0	21	21	16	39	21	20	37	72	0	0
INDIAN PT 2	0	60	0	55	60	0	54	0	45	0	0	27	0	25	27	0	24	0	20	0
COOPER STN	90	91	73	84	99	84	88	84	74	0	18	17	13	15	18	15	18	15	13	0
LIMERICK 1	0	187	148	0	180	179	0	177	147	0	0	33	26	0	33	32	0	31	20	0
PEACHBOTTOM 2	200	0	156	191	0	189	187	0	0	0	35	0	20	34	0	34	33	0	0	0
PEACHBOTTOM 3	188	186	0	181	189	0	177	177	156	0	33	33	0	32	34	0	31	31	28	0
LIMERICK 2	0	255	0	227	158	0	216	0	183	204	0	45	0	40	20	0	38	0	32	36
POINT BEACH 1&2	57	55	44	50	57	140	25	0	0	0	20	20	16	18	20	52	9	0	0	0
BRUNSWICK 1	161	0	126	0	0	0	0	0	0	0	30	0	24	0	0	0	0	0	0	0
BRUNSWICK 2	0	162	126	0	153	153	0	152	126	0	0	30	24	0	29	29	0	28	24	0
ZION 1&2	84	83	98	81	83	120	59	58	241	0	29	29	45	28	29	55	27	27	110	0
BYRON 1&2	73	63	99	76	58	131	69	56	100	58	31	27	42	30	25	55	29	24	45	25
BRAIDWOOD 1&2	131	128	0	127	116	0	126	112	0	103	55	54	0	54	49	0	53	47	0	44
BIG ROCK 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAINE YANKEE	63	0	50	59	0	60	0	0	0	0	24	0	19	22	0	23	0	0	0	0
FORT CALHOUN	39	0	20	36	0	36	34	0	0	0	14	0	10	13	0	13	12	0	0	0
DAVIS-BESSE 1	53	0	41	50	0	50	50	0	41	42	25	0	19	23	0	23	23	0	19	19
LACROSSE	21	0	16	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0
ENRICO FERMI-2	0	252	0	247	252	0	238	0	197	0	0	48	0	45	46	0	43	0	38	0
SAN ONOFRE 1,2,&3	201	0	157	231	78	75	73	74	62	63	83	0	85	90	33	32	31	32	26	27
LASALLE CTY 1&2	190	302	147	185	382	182	178	364	149	153	35	70	27	34	70	33	32	66	27	28
DRESDEN 2	137	137	0	135	0	0	0	0	0	0	23	23	0	23	0	0	0	0	0	0
DRESDEN 3	0	137	107	0	137	131	0	0	0	0	0	23	18	0	23	22	0	0	0	0
QUAD CITIES 1&2	140	278	100	137	278	134	133	265	712	0	25	49	19	24	49	24	23	47	125	0
HADDAM NECK	46	46	0	0	0	0	0	0	0	0	19	19	0	0	0	0	0	0	0	0
ST LUCIE 2	0	83	46	0	83	60	0	59	49	0	0	25	19	0	25	23	0	23	19	0
TURKEY PT 1&2	82	42	33	70	41	38	70	195	0	0	38	19	15	32	19	17	32	90	0	0
ST LUCIE 1	66	0	51	61	0	62	61	0	49	53	25	0	19	23	0	24	23	0	19	20
COOK 1&2	09	70	115	67	77	00	72	130	54	253	32	31	50	31	31	30	29	59	25	113
FITZPATRICK	153	0	122	140	0	140	142	0	120	122	27	0	22	26	0	26	25	0	21	22
DUANE ARNOLD	100	0	82	99	0	100	99	0	83	80	19	0	15	18	0	18	18	0	15	15
WASH NUCLEAR 2	139	139	109	135	141	133	131	131	109	113	24	24	19	24	25	23	23	23	19	20
ARK NUCLEAR 2	0	59	47	0	59	0	55	57	0	45	0	24	20	0	24	0	23	24	0	19
ARK NUCLEAR 1	0	50	0	47	0	47	47	0	39	0	0	23	0	22	0	22	22	0	18	0
PERRY 1&2	499	146	185	459	181	232	430	137	211	150	91	27	30	83	29	42	78	25	30	27
KEWAUNEE	33	33	25	30	32	31	31	29	25	0	13	13	9	11	12	12	12	11	9	0

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Annual Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
SALEM 1	0	74	57	0	74	70	0	69	58	0	0	34	26	0	34	32	0	32	27	0
SALEM UNIT 2	73	73	0	71	74	0	68	60	0	50	34	34	0	33	34	0	31	33	0	27
CLINTON 1	180	123	0	175	130	0	152	119	0	130	33	22	0	32	25	0	28	22	0	24
GINNA	28	28	22	26	28	0	0	0	0	0	9	9	7	9	9	0	0	0	0	0
RANCHO SECO-1	51	54	0	51	50	0	50	51	0	41	24	25	0	24	23	0	23	24	0	19
VT YANKEE 1	112	0	87	100	0	100	106	0	0	0	21	0	10	20	0	19	19	0	0	0
HATCH 1&2	162	159	250	152	160	304	160	152	0	0	30	30	40	20	30	50	20	20	150	0
SUSQUEHANNA 1&2	197	195	300	191	195	372	180	185	300	150	34	34	53	33	34	64	32	32	53	27
B VALLEY 2	0	55	37	0	50	55	0	49	43	0	0	25	17	0	23	25	0	23	20	0
B VALLEY 1	63	0	49	61	84	0	58	60	0	52	29	0	23	20	30	0	27	28	0	24
BROWNS FERRY 1&2	316	0	311	303	0	379	0	370	312	704	57	0	50	70	0	89	0	68	57	139
BROWNS FERRY 3	201	0	150	0	201	190	0	180	0	150	36	0	20	0	36	34	0	34	0	29
PALO VERDE 2	0	34	41	55	43	40	40	38	40	42	0	15	18	24	19	20	21	18	17	18
PALO VERDE 1	0	0	43	54	50	54	53	54	45	45	0	0	19	24	24	24	23	24	20	20
PALO VERDE 3	0	49	32	53	45	40	40	45	39	41	0	21	14	23	20	21	21	20	17	18
CRYSTAL RVR 3	0	3	0	0	0	59	0	0	0	48	0	1	0	20	0	27	0	20	0	22
VOGTLE 1&2	0	0	101	0	110	110	0	114	103	0	0	0	47	0	54	54	0	53	48	0
TROJAN	0	0	30	40	42	40	40	40	33	34	0	0	14	18	19	18	18	18	15	18
INDIAN PT 3	0	0	35	0	67	0	61	62	0	62	0	0	10	0	31	0	28	28	0	24
SEQUOIA 1&2	0	0	4	0	141	0	130	132	0	100	0	0	2	0	55	0	50	61	0	50
BATTS BAR 1&2	0	0	49	130	53	50	59	45	102	49	0	0	23	64	24	27	27	21	47	23
BELLEFONTE 1	0	0	59	0	66	69	0	54	0	61	0	0	27	0	30	31	0	25	0	20
BELLEFONTE 2	0	0	59	0	61	0	69	50	0	60	0	0	27	0	20	0	27	20	0	31
CALLAWAY 1	0	0	30	0	84	73	0	80	60	0	0	0	10	0	30	31	0	34	25	0
HARRIS 1	0	0	0	43	0	39	39	0	31	34	0	0	0	20	0	18	18	0	14	16
ROBINSON 2	0	0	0	0	42	50	0	0	0	0	0	0	0	0	18	20	0	0	0	0
RVR BEND 1	0	0	0	131	0	173	171	0	142	140	0	0	0	24	0	32	32	0	20	27
WATERFORD 3	0	0	0	31	61	0	83	75	0	70	0	0	0	13	34	0	34	31	0	29
MONTICELLO	0	0	0	44	0	91	0	0	0	0	0	0	0	0	0	10	0	0	0	0
FARLEY 2	0	0	0	0	31	50	0	80	47	0	0	0	0	0	14	27	0	20	22	0
FARLEY 1	0	0	0	0	0	0	50	60	0	40	0	0	0	0	0	0	27	20	0	22
MILLSTONE 2	0	0	0	0	17	0	50	59	0	50	0	0	0	0	7	0	24	24	0	20
MILLSTONE 3	0	0	0	0	50	59	0	50	50	0	0	0	0	0	27	27	0	20	23	0
DIABLO CANYON-1	0	0	0	0	0	2	0	85	0	70	0	0	0	0	0	1	0	39	0	35
DIABLO CANYON-2	0	0	0	0	0	0	89	0	70	0	0	0	0	0	0	0	41	0	32	0
NINE MILE PT2	0	0	0	0	0	0	141	0	161	0	0	0	0	0	0	0	24	0	27	0
MCGUIRE 1	0	0	0	0	0	0	0	20	44	44	0	0	0	0	0	0	0	0	19	19
OCONEE 1&2	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	19	0
OCONEE 3	0	0	0	0	0	0	0	0	177	0	0	0	0	0	0	0	0	0	82	0
MCGUIRE 2	0	0	0	0	0	0	0	0	44	44	0	0	0	0	0	0	0	0	19	19
CATAWBA 1	0	0	0	0	0	0	0	0	44	40	0	0	0	0	0	0	0	0	19	19
CATAWBA 2	0	0	0	0	0	0	0	0	38	41	0	0	0	0	0	0	0	0	16	17

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Annual Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
HOPE CREEK	0	0	0	0	0	0	0	117	155	0	0	0	0	0	0	0	0	21	28	0
WOLF CREEK 1	0	0	0	0	0	0	0	0	2	34	0	0	0	0	0	0	0	0	1	18
SUMMER 1	0	0	0	0	0	0	0	0	31	48	0	0	0	0	0	0	0	0	14	22
COMANCHE PK 1&2	0	0	0	0	0	0	0	0	36	84	0	0	0	0	0	0	0	0	15	34
SHOREHAM	0	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0	0	11
PWR TOTAL	1410	1360	1731	1921	2350	2112	2048	2657	2182	2214	593	576	741	818	1024	908	889	1180	955	958
BWR TOTAL	3200	3158	2979	3410	3175	3278	3083	2624	4153	2246	575	564	534	612	569	588	553	473	747	485
TOTAL	4610	4518	4710	5331	5531	5390	5131	5291	6335	4460	1168	1140	1275	1430	1593	1496	1442	1653	1702	1363

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus Transshipment--Projected Annual Storage Requirements (contd)

POOL	ASSEMBLIES					MTM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
CALVERT CLF 1&2	0	72	0	0	0	0	27	0	0	0
NORTH ANNA 1&2	80	96	158	39	51	41	44	72	18	24
LIMERICK 1	154	169	0	140	172	27	30	0	25	30
LIMERICK 2	0	190	0	179	221	0	35	0	32	39
BYRON 1&2	52	124	71	44	126	22	52	30	19	53
BRAIDWOOD 1&2	104	0	124	87	0	44	0	52	37	0
DAVIS-BESSE 1	0	47	51	0	0	0	22	24	0	0
ENRICO FERMI-2	212	229	0	190	0	39	42	0	35	0
SAN ONOFRE 1,2,&3	64	142	0	115	0	27	61	0	49	0
LASALLE CTY 1&2	315	173	100	203	174	57	31	34	52	32
ST LUCIE 2	51	50	0	46	57	20	22	0	18	22
COOK 1&2	0	89	74	0	0	0	28	30	0	0
WASH NUCLEAR 2	114	120	135	103	120	20	22	24	18	23
ARK NUCLEAR 2	0	55	57	0	55	0	23	24	0	23
ARK NUCLEAR 1	0	0	0	0	0	0	0	0	0	0
PERRY 1&2	218	390	100	203	409	40	72	34	37	74
SALEM 1	60	88	0	0	0	20	30	0	0	0
SALEM UNIT 2	60	0	71	55	0	20	0	33	25	0
CLINTON 1	142	0	159	136	0	26	0	29	25	0
HATCH 1&2	132	145	0	120	0	25	27	0	22	0
SUSQUEHANNA 1&2	161	354	190	140	361	20	61	33	25	62
B VALLEY 2	47	51	0	30	52	22	24	0	18	24
B VALLEY 1	53	0	0	0	0	24	0	0	0	0
BROWNS FERRY3	104	0	0	0	0	30	0	0	0	0
PALO VERDE 2	44	47	37	41	45	19	21	18	18	20
PALO VERDE 1	47	51	54	41	51	21	22	24	18	22
PALO VERDE 3	40	45	40	35	45	17	20	21	15	20
CRYSTAL RVR 3	0	55	0	0	0	0	25	0	0	0
VOGTLE 1&2	105	125	0	89	117	48	50	0	41	54
TROJAN	35	0	0	0	0	16	0	0	0	0
SEQUOYAH 1&2	57	62	132	0	120	26	29	61	0	59
WATTS BAR 1&2	53	49	40	102	40	24	23	21	47	21
BELLEFRONTE 1	65	0	72	63	0	30	0	33	29	0
BELLEFRONTE 2	54	0	60	62	0	25	0	31	28	0
CALLAWAY 1	67	69	0	60	71	28	29	0	25	30
HARRIS 1	0	36	30	0	37	0	17	14	0	17
RVR BEND 1	0	103	170	0	107	0	30	33	0	31
WATERFORD 3	65	0	60	59	0	27	0	30	25	0
FARLEY 2	52	54	0	40	55	24	25	0	21	25
FARLEY 1	52	0	0	0	0	24	0	0	0	0
MILLSTONE 3	52	62	0	43	58	24	29	0	20	27
DIABLO CANYON-1	0	81	0	71	0	0	37	0	33	0
DIABLO CANYON-2	77	0	89	0	87	35	0	41	0	40
NINE MILE PT2	109	0	200	0	193	20	0	35	0	33
MCGUIRE 1	0	50	53	41	0	0	21	22	17	0
MCGUIRE 2	40	50	0	41	51	19	21	0	17	22
CATANBA 1	47	0	55	41	51	20	0	23	17	22

TABLE A.7. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Annual Storage Requirements
(contd)

POOL	ASSEMBLIES					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
CATAWBA 2	48	48	0	34	45	17	20	0	14	19
HOPE CREEK	164	183	0	139	187	30	33	0	26	34
WOLF CREEK 1	34	30	40	31	38	16	18	19	14	18
SUMMER 1	0	53	56	0	54	0	26	26	0	26
COMANCHE PK 1&2	83	96	89	76	93	33	38	36	31	37
SHOREHAM	0	106	134	0	132	0	19	24	0	24
WNP-1	78	0	86	88	0	36	0	39	36	0
WNP-3	69	60	58	54	69	26	26	26	24	30
SEABROOK 2	0	0	0	0	17	0	0	0	0	0
 PWR TOTAL	 1831	 1900	 1702	 1534	 1499	 811	 838	 751	 674	 681
 BWR TOTAL	 1945	 2242	 1378	 1639	 2144	 360	 403	 246	 295	 382
 TOTAL	 3776	 4142	 3080	 3173	 3643	 1161	 1239	 998	 970	 1064

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements

POOL	ASSEMBLIES										MTIHM									
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
PALISADES	0	4	4	62	120	120	181	181	238	238	0	2	2	24	47	47	71	71	93	93
MILLSTONE 1	0	86	86	256	256	440	448	615	782	782	0	15	15	45	45	80	80	109	139	139
PILGRIM 1	0	0	0	0	0	0	0	68	68	233	0	0	0	0	0	0	12	12	41	41
CALVERT CLF 1&2	0	0	0	0	0	0	0	20	97	178	0	0	0	0	0	0	0	8	36	67
OYSTER CRK 1	0	0	0	0	0	0	0	0	38	38	0	0	0	0	0	0	0	0	7	7
PRAIRIE ISL 1&2	0	0	0	0	0	0	0	0	6	76	0	0	0	0	0	0	0	0	2	27
NORTH ANNA 1&2	0	0	0	0	0	0	0	0	51	168	0	0	0	0	0	0	0	0	24	50
SURRY 1&2	0	0	0	0	0	0	0	0	0	94	0	0	0	0	0	0	0	0	0	43
INDIAN PT 2	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	7
COOPER STN	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	2
LIMERICK 1	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	8
LIMERICK 2	0	0	0	0	0	0	0	0	0	217	0	0	0	0	0	0	0	0	0	40
PWR TOTAL	0	4	4	62	120	120	181	201	392	709	0	2	2	24	47	47	71	78	155	286
BWR TOTAL	0	86	86	256	256	440	516	683	1053	1324	0	15	15	45	45	80	92	121	187	236
TOTAL	0	90	90	318	376	568	697	884	1445	2033	0	17	17	70	92	128	162	199	342	523

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIM									
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
PALISADES	238	238	238	238	238	238	238	238	238	238	93	93	93	93	93	93	93	93	93	93
MILLSTONE 1	931	931	1094	1094	1265	1425	1425	1685	1685	1745	166	166	195	195	225	253	253	285	285	310
PILGRIM 1	233	387	387	539	539	895	895	868	868	1003	41	68	68	95	95	123	123	153	153	177
CALVERT CLF 1&2	246	319	393	485	543	615	688	764	848	904	93	120	148	175	204	231	258	287	316	340
OYSTER CRK 1	188	288	288	416	416	555	676	676	823	942	30	51	51	73	73	98	119	119	145	166
PRAIRIE ISL 1&2	185	189	233	298	364	396	452	525	591	647	37	60	83	105	129	148	168	188	209	229
NORTH ANNA 1&2	205	257	309	409	484	515	605	663	716	806	95	119	143	189	214	238	280	306	331	372
SURRY 1&2	133	176	262	303	347	430	487	515	602	638	61	81	120	139	159	197	214	236	276	293
INDIAN PT 2	15	69	69	123	181	181	229	229	280	334	7	31	31	58	82	82	103	103	129	151
COOPER STN	96	186	280	367	463	551	638	731	823	899	17	34	51	67	84	100	115	133	150	164
LIMERICK 1	205	205	300	550	550	721	874	874	1054	1204	30	36	67	90	98	120	155	155	187	213
PEACHBOTTOM 2	169	352	352	531	726	726	887	1092	1092	1258	30	62	62	94	129	129	157	194	194	222
PEACHBOTTOM 3	0	172	349	349	531	703	703	897	1076	1076	0	30	62	62	94	125	125	159	191	191
LIMERICK 2	217	501	501	675	980	980	1009	1009	1325	1435	40	92	92	123	164	164	196	196	238	257
POINT BEACH 1&2	42	93	144	194	249	299	344	401	454	499	15	33	51	69	80	100	122	142	161	177
BRUNSWICK 1	0	130	287	287	445	445	576	743	743	872	0	26	54	54	83	83	108	139	139	163
BRUNSWICK 2	0	0	150	295	295	442	573	573	727	858	0	0	28	55	55	83	107	107	136	160
ZION 1&2	0	28	88	199	260	317	419	485	545	646	0	13	39	91	119	145	191	222	249	295
BYRON 1&2	0	67	135	252	324	396	505	581	648	753	0	28	57	107	137	168	214	246	274	319
BRAIDWOOD 1&2	0	170	306	306	457	602	602	724	858	858	0	72	129	129	193	255	255	306	363	363
BIG ROCK 1	0	2	18	33	51	67	87	85	101	115	0	0	2	4	7	9	9	11	13	15
MAINE YANKEE	0	0	0	65	128	128	180	247	247	290	0	3	3	25	49	49	68	94	94	113
FORT CALHOUN	0	34	34	67	105	105	136	177	177	207	0	12	12	24	38	38	49	64	64	75
DAVIS-BESSE 1	0	47	47	94	148	148	180	243	243	285	0	22	22	44	68	68	88	114	114	133
LACROSSE	0	0	12	12	33	33	49	49	69	89	0	0	2	2	5	5	8	8	11	11
ENRICO FERMI-2	0	0	130	130	377	377	583	642	642	1048	0	0	24	24	89	69	100	153	153	190
SAN ONOFRE 1,2,3	0	0	85	129	249	320	420	501	619	682	0	0	26	54	102	133	173	208	250	283
LASALLE CTY 1&2	0	0	0	106	294	644	800	999	1365	1518	0	0	0	19	54	117	148	182	248	276
DRESDEN 2	0	0	0	0	135	260	260	402	534	534	0	0	0	0	23	44	44	67	89	89
DRESDEN 3	0	0	0	0	0	125	237	237	368	477	0	0	0	0	0	21	40	40	62	80
QUAD CITIES 1&2	0	0	0	0	136	391	504	649	918	1020	0	0	0	0	24	69	89	114	161	161
HADDAM NECK	0	0	0	20	20	62	100	148	148	185	0	0	0	0	0	26	41	61	61	76
ST LUCIE 2	0	0	0	27	27	85	130	130	190	240	0	0	0	11	11	33	53	53	76	96
TURKEY PT 1&2	0	0	0	0	41	79	113	201	241	274	0	0	0	0	19	36	52	92	111	126
ST LUCIE 1	0	0	0	0	60	66	120	189	189	242	0	0	0	0	25	25	40	72	72	92
COOK 1&2	0	0	0	4	147	211	273	345	419	537	0	0	0	2	63	93	118	151	181	232
FITZPATRICK	0	0	0	32	182	182	306	455	455	588	0	0	0	0	32	32	54	83	83	104
DUANE ARNOLD	0	0	0	0	34	34	120	228	228	317	0	0	0	0	0	0	21	41	41	56
WASH NUCLEAR 2	0	0	0	0	133	261	374	519	653	764	0	0	0	0	23	45	66	91	115	135
ARK NUCLEAR 2	0	0	0	0	0	18	18	80	80	127	0	0	0	0	0	7	7	33	33	53
ARK NUCLEAR 1	0	0	0	0	0	0	39	39	85	125	0	0	0	0	0	0	18	18	39	58
PERRY 1&2	0	0	0	0	0	42	242	770	941	1068	0	0	0	0	0	0	44	142	171	194
KEWAUNEE	0	0	0	0	0	16	44	78	109	135	0	0	0	0	0	7	17	30	41	51
SALEM 1	0	0	0	0	0	0	56	56	120	179	0	0	0	0	0	0	23	23	55	82
SALEM UNIT 2	0	0	0	0	0	0	0	77	147	147	0	0	0	0	0	0	0	35	67	67
CLINTON 1	0	0	0	0	0	0	0	58	199	199	0	0	0	0	0	0	0	11	36	36
GINNA	0	0	0	0	0	0	0	26	53	75	0	0	0	0	0	0	0	9	17	25

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIHM									
	1986	1987	1988	1989	2000	2001	2002	2003	2004	2005	1986	1987	1988	1989	2000	2001	2002	2003	2004	2005
RANCHO SECO-1	0	0	0	0	0	0	0	1	51	51	0	0	0	0	0	0	0	0	24	24
YT YANKEE 1	0	0	0	0	0	0	0	74	74	182	0	0	0	0	0	0	0	14	14	30
HATCH 1&2	0	0	0	0	0	0	0	0	26	283	0	0	0	0	0	0	0	0	5	53
SUSQUEHANNA 1&2	0	0	0	0	0	0	0	0	30	342	0	0	0	0	0	0	0	0	5	59
B VALLEY 2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PWR TOTAL	984	1875	2320	3191	4366	5227	6358	7864	8992	10119	460	587	958	1319	1802	2169	2541	3185	3707	4218
BWR TOTAL	2019	3162	4228	5416	7513	9587	11678	14533	18947	19792	360	566	758	970	1343	1711	2084	2597	3026	3534
TOTAL	3003	4837	6557	8607	11869	14814	18028	22197	25849	29911	760	1252	1716	2289	3145	3880	4725	5782	6733	7752

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus Transshipment--Projected Cumulative Storage Requirements (contd)

POOL	ASSEMBLIES										MTIM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PALISADES	238	238	238	238	238	238	238	238	238	238	93	93	93	93	93	93	93	93	93	93
MILLSTONE 1	1745	1920	2056	2056	2232	2232	2232	2232	2232	2232	310	341	366	366	397	397	397	397	397	397
PILGRIM 1	1003	1003	1134	1134	1303	1303	1461	1461	1461	1461	177	177	200	200	230	230	258	258	258	258
CALVERT CLF 1&2	985	1065	1127	1202	1283	1360	1435	1511	1572	1651	371	401	424	452	483	512	540	568	591	697
OYSTER CRK 1	942	1006	1213	1213	1213	1213	1213	1213	1213	1213	106	194	214	214	214	214	214	214	214	214
PRAIRIE ISL 1&2	683	753	807	872	943	1000	1075	1141	1209	1289	242	267	286	309	334	358	381	404	457	457
NORTH ANNA 1&2	861	917	1004	1004	1117	1223	1223	1323	1407	1407	390	424	464	464	516	565	565	611	650	650
SURRY 1&2	684	730	765	849	894	937	1017	1173	1173	1173	314	335	351	390	410	430	467	538	538	538
INDIAN PT 2	334	394	394	449	509	509	563	563	608	608	151	178	178	203	230	230	254	254	274	274
COOPER STN	997	1088	1161	1245	1344	1428	1518	1600	1674	1674	182	198	212	227	245	260	276	292	305	305
LIMERICK 1	1204	1391	1537	1537	1723	1902	1902	2079	2226	2226	213	247	272	272	305	337	337	369	395	395
PEACHTOTTOM 2	1450	1450	1608	1797	1797	1908	2173	2173	2173	2173	257	257	285	319	319	352	385	385	385	385
PEACHTOTTOM 3	1264	1450	1450	1631	1820	1820	1997	2174	2330	2330	224	257	257	289	323	323	354	385	413	413
LIMERICK 2	1435	1890	1690	1917	2075	2075	2291	2291	2474	2678	257	303	303	343	371	371	409	409	442	478
POINT BEACH 1&2	556	611	655	705	762	908	933	933	933	933	197	217	233	250	271	322	331	331	331	331
BRUNSWICK 1	1033	1033	1159	1159	1159	1159	1159	1159	1159	1159	193	193	217	217	217	217	217	217	217	217
BRUNSWICK 2	856	1018	1144	1144	1297	1450	1450	1602	1728	1728	160	190	214	214	243	271	271	300	323	323
ZION 1&2	710	773	871	932	995	1115	1174	1232	1473	1473	324	353	390	426	456	510	537	563	673	673
BYRON 1&2	826	889	988	1058	1116	1247	1310	1372	1478	1530	349	376	418	446	472	527	557	580	625	650
BRAIDWOOD 1&2	969	1117	1117	1244	1300	1300	1486	1598	1598	1701	418	472	472	526	575	575	629	676	676	720
BIG ROCK 1	115	115	115	115	115	115	115	115	115	115	15	15	15	15	15	15	15	15	15	15
MAINE YANKEE	361	361	411	470	470	530	530	530	530	530	137	137	156	179	179	202	202	202	202	202
FORT CALHOUN	246	246	275	311	311	347	381	381	381	381	89	89	99	112	112	125	137	137	137	137
DAVIS-BESSE 1	338	338	379	429	429	479	529	529	576	612	168	168	177	201	201	224	248	248	267	286
LACROSSE	90	90	106	106	106	106	106	106	106	106	15	15	17	17	17	17	17	17	17	17
ENRICO FERMI-2	1046	1206	1296	1545	1797	1797	2035	2035	2232	2232	190	238	236	261	327	327	370	370	406	406
SAN ONOFRE 1,2,3	803	803	1040	1271	1349	1424	1497	1571	1633	1690	306	306	431	521	554	586	617	649	676	702
LASALLE CTY 1&2	1700	2090	2237	2422	2804	2906	3164	3528	3877	3830	311	380	407	441	510	543	578	642	689	697
DRESDEN 2	671	806	806	943	943	943	943	943	943	943	112	135	135	150	156	156	156	156	156	156
DRESDEN 3	477	614	721	721	858	909	909	909	909	909	80	103	121	121	144	166	166	166	166	166
QUAD CITIES 1&2	1106	1446	1554	1691	1909	2103	2236	2501	3213	3213	206	255	274	298	347	371	394	441	566	566
HADDAM NECK	231	277	277	277	277	277	277	277	277	277	95	114	114	114	114	114	114	114	114	114
ST LUCIE 2	246	300	357	357	420	480	480	539	588	588	96	120	139	139	163	187	187	210	229	229
TURKEY PT 1&2	360	398	431	501	542	580	650	845	845	845	183	183	198	230	249	266	298	388	388	388
ST LUCIE 1	308	308	369	420	420	482	543	543	592	645	118	118	137	160	160	184	207	207	226	246
COOK 1&2	606	682	797	864	941	1007	1079	1217	1271	1524	203	294	344	374	405	436	485	524	549	682
FITZPATRICK	741	741	863	1009	1000	1155	1297	1297	1417	1539	132	132	153	179	179	205	230	230	252	273
DUANE ARNOLD	423	423	505	604	604	704	803	803	886	972	75	75	90	108	108	125	143	143	158	173
WASH NUCLEAR 2	903	1042	1151	1286	1427	1560	1691	1822	1931	2044	159	183	203	228	251	275	298	321	340	360
ARK NUCLEAR 2	127	186	233	233	292	292	347	404	404	449	53	77	97	97	121	121	144	168	188	186
ARK NUCLEAR 1	125	175	175	222	222	289	316	316	355	355	58	81	81	103	103	125	146	146	165	165
PERRY 1&2	1567	1713	1878	2337	2490	2730	3160	3297	3500	3658	285	312	342	425	454	497	575	600	636	685
KENNAUNEE	168	201	226	256	288	319	350	379	404	404	64	75	88	97	109	121	133	144	153	153
SALEM 1	179	253	310	310	384	454	454	523	581	581	82	110	142	142	176	208	208	240	267	267
SALEM UNIT 2	220	293	293	364	438	436	506	575	575	633	101	135	135	157	201	201	232	266	266	292
CLINTON 1	379	502	502	577	615	615	667	1006	1006	1218	69	92	92	124	149	149	177	198	198	222
GINNA	103	131	153	179	207	207	207	207	207	207	34	43	50	59	68	68	68	68	68	68

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIM									
	2000	2007	2008	2009	2010	2011	2012	2013	2014	2015	2000	2007	2008	2009	2010	2011	2012	2013	2014	2015
RANCHO SECO-1	102	158	158	207	257	257	307	358	358	399	47	72	72	98	119	119	142	165	165	184
VT YANKEE 1	274	274	361	409	469	575	681	681	681	681	56	56	56	86	86	106	125	125	125	125
HATCH 1&2	445	604	854	1008	1166	1470	1620	1772	2582	2582	83	112	159	187	216	273	301	329	479	479
SUSQUEHANNA 1&2	539	734	1042	1233	1428	1800	1988	2171	2477	2635	93	127	180	213	247	311	343	375	428	455
B VALLEY 2	1	58	93	93	143	198	198	247	290	290	0	26	43	43	66	91	91	114	134	134
B VALLEY 1	63	63	112	173	237	237	295	355	355	407	29	29	52	80	100	109	136	184	164	188
BROWNS FERRY 1&2	316	316	627	1010	1010	1389	1389	1765	2077	2841	57	57	114	183	183	252	252	320	377	516
BROWNS FERRY 3	201	201	357	357	558	748	748	936	936	1094	30	36	65	65	101	136	136	170	170	199
PALO VERDE 2	0	34	75	130	173	219	267	303	343	365	0	15	33	57	75	96	116	132	150	168
PALO VERDE 1	0	0	43	97	153	207	260	314	359	404	0	0	19	42	67	90	113	137	157	176
PALO VERDE 3	0	49	81	134	179	227	275	320	359	400	0	21	35	58	78	99	120	140	157	175
CRYSTAL RVR 3	0	3	3	63	63	122	122	182	182	230	0	1	1	29	29	57	57	84	84	107
VOGTLE 1&2	0	0	101	101	217	335	335	449	552	552	0	0	47	47	100	155	155	207	255	255
TROJAN	0	0	30	70	112	162	192	232	265	290	0	0	14	32	52	70	89	107	122	138
INDIAN PT 3	0	0	35	35	102	102	163	225	225	277	0	0	16	16	47	47	74	103	103	126
SEQUOYAH 1&2	0	0	4	4	145	145	275	407	407	515	0	0	2	2	67	67	127	187	187	237
WATTS BAR 1&2	0	0	49	187	240	298	357	402	504	553	0	0	23	86	111	137	185	185	233	255
BELLEFONTE 1	0	0	59	59	124	193	193	247	247	308	0	0	27	27	57	88	88	113	113	141
BELLEFONTE 2	0	0	59	59	120	120	179	235	235	303	0	0	27	27	55	55	82	107	107	138
CALLAWAY 1	0	0	30	30	122	195	195	276	335	335	0	0	16	16	52	82	82	116	142	142
HARRIS 1	0	0	0	43	43	82	121	121	162	186	0	0	0	20	20	30	58	58	71	96
ROBINSON 2	0	0	0	0	42	92	92	92	92	92	0	0	0	0	18	39	39	39	39	39
RVR BEND 1	0	0	0	131	131	304	475	475	617	763	0	0	0	24	24	56	88	88	114	141
WATERFORD 3	0	0	0	31	112	112	195	270	270	340	0	0	0	13	47	47	81	112	112	141
MONTECELLO	0	0	0	44	44	135	135	135	135	135	0	0	0	0	0	23	23	23	23	23
FARLEY 2	0	0	0	0	31	89	89	149	195	195	0	0	0	0	14	41	41	89	90	90
FARLEY 1	0	0	0	0	0	0	68	118	118	165	0	0	0	0	0	0	27	54	54	77
MILLSTONE 2	0	0	0	0	17	17	75	134	134	184	0	0	0	0	7	7	31	55	55	75
MILLSTONE 3	0	0	0	0	58	117	117	173	223	223	0	0	0	0	27	54	54	80	103	103
DIABLO CANYON-1	0	0	0	0	0	2	2	87	87	163	0	0	0	0	0	1	1	40	40	75
DIABLO CANYON-2	0	0	0	0	0	0	89	89	159	159	0	0	0	0	0	0	41	41	73	73
NINE MILE PT 2	0	0	0	0	0	0	141	141	302	302	0	0	0	0	0	0	24	24	51	51
MCGUIRE 1	0	0	0	0	0	0	0	20	84	108	0	0	0	0	0	0	0	0	27	46
OCONEE 1&2	0	0	0	0	0	0	0	0	41	41	0	0	0	0	0	0	0	0	19	19
OCONEE 3	0	0	0	0	0	0	0	0	177	177	0	0	0	0	0	0	0	0	82	82
MCGUIRE 2	0	0	0	0	0	0	0	0	44	88	0	0	0	0	0	0	0	0	19	37
CATAWBA 1	0	0	0	0	0	0	0	0	44	90	0	0	0	0	0	0	0	0	19	38
CATAWBA 2	0	0	0	0	0	0	0	0	38	79	0	0	0	0	0	0	0	0	16	33
HOPE CREEK	0	0	0	0	0	0	0	117	272	272	0	0	0	0	0	0	0	21	49	49
WOLF CREEK 1	0	0	0	0	0	0	0	0	2	36	0	0	0	0	0	0	0	0	1	17
SUMMER 1	0	0	0	0	0	0	0	0	31	79	0	0	0	0	0	0	0	0	14	37
COMANCHE PK 1&2	0	0	0	0	0	0	0	0	36	120	0	0	0	0	0	0	0	0	15	48
SHOREHAM	0	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0	0	11

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	ASSEMBLIES										MTIHM									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PWR TOTAL	11529	12809	14620	16541	18897	21609	23857	25724	27906	30128	4811	5387	6128	6946	7970	8878	9767	10947	11902	12860
BWR TOTAL	22992	26150	29129	32539	35714	38992	42075	44899	48652	51898	4110	4673	5207	5819	6388	6976	7529	8002	8749	9154
TOTAL	34521	39059	43749	49080	54611	60601	65132	70423	76758	81218	8920	10060	11335	12766	14358	15854	17296	18949	20651	22014

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	ASSEMBLIES					MTIHM				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
PALISADES	238	238	238	238	238	93	93	93	93	93
MILLSTONE 1	2232	2232	2232	2232	2232	397	397	397	397	397
PILGRIM 1	1461	1461	1461	1461	1461	258	258	258	258	258
CALVERT CLF 1&2	1851	1923	1923	1923	1923	897	724	724	724	724
OYSTER CRK 1	1213	1213	1213	1213	1213	214	214	214	214	214
PRAIRIE ISL 1&2	1289	1289	1289	1289	1289	457	457	457	457	457
NORTH ANNA 1&2	1495	1591	1747	1786	1837	891	735	887	825	849
SURRY 1&2	1173	1173	1173	1173	1173	538	538	538	538	538
INDIAN PT 2	888	888	888	888	888	274	274	274	274	274
COOPER STN	1874	1874	1874	1874	1874	385	385	385	385	385
LIMERICK 1	2388	2549	2549	2689	2861	422	452	452	477	507
PEACHBOTOM 2	2173	2173	2173	2173	2173	385	385	385	385	385
PEACHBOTOM 3	2338	2338	2338	2338	2338	413	413	413	413	413
LIMERICK 2	2878	2878	2878	3055	3278	478	513	513	545	584
POINT BEACH 1&2	933	933	933	933	933	331	331	331	331	331
BRUNSWICK 1	1159	1159	1159	1159	1159	217	217	217	217	217
BRUNSWICK 2	1728	1728	1728	1728	1728	323	323	323	323	323
ZION 1&2	1473	1473	1473	1473	1473	673	873	873	873	873
BYRON 1&2	1588	1712	1783	1827	1953	672	724	754	773	828
BRAIDWOOD 1&2	1885	1885	1929	2018	2018	764	764	816	863	853
BIG ROCK 1	115	115	115	115	115	15	15	15	15	15
MAINE YANKEE	538	538	538	538	538	282	282	282	282	282
FORT CALHOUN	381	381	381	381	381	137	137	137	137	137
DAVIS-BESSE 1	812	859	718	718	718	286	388	332	332	332
LACROSSE	188	188	188	188	188	17	17	17	17	17
ENRICO FERMI-2	2444	2873	2873	2883	2883	445	488	488	521	521
SAN ONOFRE 1,2, &3	1788	1982	1982	2017	2017	738	798	798	848	848
LASALLE CTY 1&2	4145	4318	4584	4787	4961	754	788	828	871	903
DRESDEN 2	943	943	943	943	943	158	158	158	158	158
DRESDEN 3	989	989	989	989	989	188	188	188	188	188
QUAD CITIES 1&2	3213	3213	3213	3213	3213	568	568	568	568	568
HADDAM NECK	277	277	277	277	277	114	114	114	114	114
ST LUCIE 2	839	895	895	741	798	249	278	278	288	318
TURKEY PT 1&2	845	845	845	845	845	388	388	388	388	388
ST LUCIE 1	845	845	845	845	845	248	248	248	248	248
COOK 1&2	1524	1593	1887	1887	1887	882	898	728	728	728
FITZPATRICK	1539	1539	1539	1539	1539	273	273	273	273	273
DUANE ARNOLD	972	972	972	972	972	173	173	173	173	173
WASH NUCLEAR 2	2158	2284	2419	2522	2658	388	482	428	444	487
ARK NUCLEAR 2	449	584	581	581	818	188	289	233	233	258
ARK NUCLEAR 1	355	355	355	355	355	185	185	185	185	185
PERRY 1&2	3878	4272	4458	4881	5878	785	777	811	848	922
KENNAUNEE	484	484	484	484	484	153	153	153	153	153
SALEM 1	841	787	787	787	787	294	325	325	325	325
SALEM UNIT 2	893	893	784	819	819	328	328	352	378	378
CLINTON 1	1358	1358	1517	1853	1853	248	248	277	382	382
GINNA	287	287	287	287	287	88	88	88	88	88
RANCHO SECO-1	399	399	399	399	399	184	184	184	184	184

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements
(contd)

POOL	ASSEMBLIES					WITHIN				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
VT YANKEE 1	681	681	681	681	681	125	125	125	125	125
HATCH 1&2	2714	2859	2859	2979	2979	584	531	531	553	553
SUSQUEHANNA 1&2	2798	3158	3348	3488	3847	483	544	577	682	685
B VALLEY 2	337	388	388	428	478	155	179	179	198	228
B VALLEY 1	488	488	488	488	488	212	212	212	212	212
BROWNS FERRY 1&2	2841	2841	2841	2841	2841	518	518	518	518	518
BROWNS FERRY 3	1258	1258	1258	1258	1258	228	228	228	228	228
PALO VERDE 2	429	478	513	554	599	187	288	224	242	281
PALO VERDE 1	451	582	558	597	848	197	219	243	288	283
PALO VERDE 3	448	485	533	588	613	192	212	233	248	287
CRYSTAL RVR 3	238	285	285	285	285	187	132	132	132	132
VOGTLE 1&2	857	782	782	871	988	383	381	381	482	458
TROJAN	334	334	334	334	334	154	154	154	154	154
INDIAN PT 3	277	277	277	277	277	128	128	128	128	128
SEQUOYAH 1&2	572	634	788	788	894	283	292	353	353	411
WATTS BAR 1&2	688	655	781	883	849	288	382	323	371	392
BELLEFONTE 1	373	373	445	588	588	178	178	283	232	232
BELLEFONTE 2	367	367	425	487	487	183	183	194	222	222
CALLAWAY 1	482	471	471	531	682	178	199	199	225	255
HARRIS 1	188	222	252	252	289	88	183	117	117	134
ROBINSON 2	92	92	92	92	92	39	39	39	39	39
RVR BEND 1	783	928	1184	1184	1271	141	171	284	284	235
WATERFORD 3	485	485	491	558	558	188	188	284	229	229
MONTICELLO	135	135	135	135	135	23	23	23	23	23
FARLEY 2	248	382	382	348	483	114	139	139	181	188
FARLEY 1	218	218	218	218	218	181	181	181	181	181
WILLSTONE 2	184	184	184	184	184	75	75	75	75	75
WILLSTONE 3	275	337	337	388	438	127	155	155	175	282
DIABLO CANYON-1	183	244	244	315	315	75	112	112	145	145
DIABLO CANYON-2	238	238	325	325	412	188	188	149	149	189
NINE MILE PT 2	471	471	879	879	872	88	88	118	118	149
MCGUIRE 1	188	158	211	252	252	48	87	89	187	187
OCONEE 1&2	41	41	41	41	41	19	19	19	19	19
OCONEE 3	177	177	177	177	177	82	82	82	82	82
MCGUIRE 2	134	184	184	225	276	57	78	78	95	117
CATAWBA 1	137	137	192	233	284	58	58	81	99	128
CATAWBA 2	119	187	187	281	248	58	71	71	85	184
HOPE CREEK	438	619	619	758	945	79	113	113	138	172
WOLF CREEK 1	78	188	148	179	217	32	58	89	83	181
SUMMER 1	79	132	188	188	242	37	81	87	87	112
COMANCHE PK 1&2	283	298	387	483	558	82	128	158	187	224
SHOREHAM	82	188	382	382	434	11	31	55	55	79
WNP-1	78	78	183	243	243	38	38	74	111	111
WNP-3	59	119	177	231	388	28	52	77	181	131
SEABROOK 2	8	8	8	8	17	8	8	8	8	8

TABLE A.8. Upper Reference Case, Maximum At-Reactor Capacity Plus
Transshipment--Projected Cumulative Storage Requirements
(contd)

<u>POOL</u>	<u>ASSEMBLIES</u>					<u>MTIHM</u>				
	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
PWR TOTAL	31961	33859	35581	37095	38594	: 13871	14587	15258	15933	16594
BWR TOTAL	53043	55285	56661	58388	60444	: 9584	9987	10153	10448	10831
TOTAL	84994	89144	92222	95395	99038	: 23175	24414	25411	26381	27425

APPENDIX B

MAP OF FEDERAL ENERGY REGIONS

	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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