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Update Report on the Performance of 400 Megawatt and Larger Nuclear and Coal-Fired Generating Units

Performance Through 1977

Published January, 1981

U.S. Department of Energy
Economic Regulatory Administration
Division of Power Supply and Reliability
Washington, D.C. 20585

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CONTENTS

	Page
1. INTRODUCTION	1
2. SUMMARY	3
3. DATA BASE	5
3.1 Source of Data	5
3.2 Selection of Units	5
3.3 Nameplate Rating	5
3.4 Commercial Operating Date	5
3.5 Performance Indices	5
4. ANALYSIS METHODS	7
4.1 Data Aggregation	7
4.2 Lifetime Averages (through 1977)	7
4.3 Life-Year Averages	7
4.4 Calendar-Year Averages	8
4.5 Regional Analysis	8
4.6 Rankings	8
5. RESULTS OF ANALYSIS	9
APPENDIX A. DATA DEFINITIONS	11
APPENDIX B. NATIONAL DATA	15
APPENDIX C. STATE DATA	17
APPENDIX D. UTILITY-BY-STATE DATA	37
APPENDIX E. UTILITY DATA	73
APPENDIX F. STATE AND UTILITY RANKINGS	99
APPENDIX G. UNITS IN STUDY	117

LIST OF TABLES

Table		Page
2.1	Nuclear generating units included in analysis (47 total)	4
2.2	Coal generating units included in analysis (125 total)	4
3.1	Examples of discrepancies in nameplate ratings	6
3.2	Examples of discrepancies in commercial operating dates	6
3.3	Calculation of unit performance indices.....	6
B-1	National Average Performance Factors by Calendar Year	16
B-2	National Average Performance Factors by Life Year	16
C-1	Lifetime Performance Factors (by State)	18
C-2	Average Availability Factors for Calendar Years (by State)	20
C-3	Average Capacity Factors for Calendar Years (by State)	22
C-4	Average Equivalent Availability for Calendar Years (by State)	24
C-5	Average Forced Outage Rates for Calendar Years (by State)	26
C-6	Average Availability Factors for Life Years of Service (by State)	28
C-7	Average Capacity Factors for Life Years of Service (by State)	30
C-8	Average Equivalent Availability for Life Years of Service (by State).....	32
C-9	Average Forced Outage Rates for Life Years of Service (by State)	34
D-1	Lifetime Performance Factors (by State & Utility)	38
D-2	Availability Factors for Calendar Years (by State & Utility)	41
D-3	Capacity Factors for Calendar Years (by State & Utility)	45
D-4	Equivalent Availability for Calendar Years (by State & Utility)	49
D-5	Forced Outage Rates for Calendar Years (by State & Utility)	53
D-6	Availability Factors by Life Years (by State & Utility)	57
D-7	Capacity Factors by Life Years (by State & Utility)	61
D-8	Equivalent Availability by Life Years (by State & Utility)	65
D-9	Forced Outage Rates by Life Years (by State & Utility)	69
E-1	Average Availability Factors for Calendar Years (by Utility)	74
E-2	Average Capacity Factors for Calendar Years (by Utility)	77
E-3	Average Equivalent Availability for Calendar Years (by Utility)	80
E-4	Average Forced Outage Rates for Calendar Years (by Utility)	83
E-5	Average Availability Factors for Life Years of Service (by Utility)	86
E-6	Average Capacity Factors for Life Years of Service (by Utility).....	89
E-7	Average Equivalent Availability for Life Years of Service (by Utility)	92
E-8	Average Forced Outage Rates for Life Years of Service (by Utility)	95
F-1	Nuclear Unit Availability Factors by Calendar Year (by State)	100
F-2	Nuclear Unit Capacity Factors by Calendar Year (by State)	101
F-3	Nuclear Unit Equivalent Availability by Calendar Year (by State) ...	102
F-4	Nuclear Unit Forced Outage Rate by Calendar Year (by State)	103
F-5	Coal Unit Availability Factors by Calendar Year (by State)	104
F-6	Coal Unit Capacity Factors by Calendar Year (by State)	105
F-7	Coal Unit Equivalent Availability by Calendar Year (by State)	106
F-8	Coal Unit Forced Outage Rates by Calendar Year (by State)	107
F-9	Nuclear Unit Availability Factors by Calendar Year (by Utility)	108
F-10	Nuclear Unit Capacity Factors by Calendar Year (by Utility)	109
F-11	Nuclear Unit Equivalent Availability by Calendar Year (by Utility)	110
F-12	Nuclear Unit Forced Outage Rates by Calendar Year (by Utility)	111
F-13	Coal Unit Availability Factors by Calendar Year (by Utility)	112
F-14	Coal Unit Capacity Factors by Calendar Year (by Utility)	113
F-15	Coal Unit Equivalent Availability by Calendar Year (by Utility)	114
F-16	Coal Unit Forced Outage Rates by Calendar Year (by Utility)	115
G-1	Nameplate Rating and Commercial Operation Date (by State and Utility)	118

1. INTRODUCTION

This report is an update of DOE/ERA-0007/2, Interim Report on the Performance of 400 Megawatt and Larger Nuclear and Coal-Fired Generating Units - Performance Through 1976. It differs from DOE/ERA-0007/2 in that the scope of data is larger, through 1977, and some units have been dropped from the data set while others have been added.

Effective January 1, 1979, responsibility for the Edison Electric Institute (EEI) data was transferred to the National Electric Reliability Council (NERC). The NERC has developed additional computer software designed to scan "raw" outage data submitted by utilities for the types of errors found previously by the Department of Energy (DOE) and NERC in their analyses of the historical EEI data. This process, which verifies data before it is introduced into NERC's data files, should result in a more accurate data base. The data used in the present report were obtained directly from NERC and hereinafter will be referred to as the NERC data.

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2. SUMMARY

The generating units included in this analysis are those nuclear and coal-fired units with nameplate ratings 400 MW(e) and larger that have at least one full year of commercial operation. Units included are listed in Tables 2.1 and 2.2. Because reporting by utilities is voluntary, some generating units are not included.

These units may be characterized by the four indices most commonly utilized to evaluate the performance of power plants - capacity factor, availability factor, equivalent availability, and forced outage rate. These indices tell much about the performance of power plants, but no single index is a fully sufficient measure of a power plant's overall performance. Capacity factor measures the power generated by the unit as a percentage of its maximum dependable capability to produce power; availability factor establishes only the percentage of time the unit was capable of producing power; equivalent availability adjusts the availability factor for partial outages or unit deratings; and forced outage rate defines that percentage of time the unit was forced out of service because of equipment or operational malfunction. Collective review of these four indices is often taken as the measure of a unit's performance.

The NERC reports the performance of these power plants on a calendar-year basis, and data were received in this format. Beginning with the commercial operating dates furnished by NERC, the data were analyzed to provide unit life years of service, cumulative life years of service, and calendar-year summaries. The NERC associates unit performance data with the unit's operating utility or in some cases the holding company of a group of operating utilities (American Electric Power, Southern Services, Northeast Utilities). This association has been continued in the report. This is pointed out because in other data bases a given unit might be listed only under the operating utility. Comparisons between data bases of individual units or utilities should therefore be adjusted to account for these differences in categorizing.

The NERC data presented in this report have been distilled to provide information on the following bases in an easily referenced fashion:

- Coal and nuclear units
- 400-MW(e) nameplate and larger
- Historical data through 1977
- Four industry-recognized performance indices
 - Capacity factor (CF)
 - Availability factor (AF)
 - Equivalent availability (EA)
 - Forced outage rate (FOR)
- Four types of geographical analysis
 - National
 - Individual states
 - Individual utilities
 - Individual utilities by states
- Rankings of states and utilities by performance indices

Table 2.1. Nuclear generating units included in analysis (47 total)

Arkansas 1	Indian Point 2	Point Beach 1
Duane Arnold	Indian Point 3	Point Beach 2
Browns Ferry 1	Kewaunee 1	Prairie Island 1
Browns Ferry 2	Maine Yankee	Prairie Island 2
Browns Ferry 3	Millstone 1	Quad Cities 1
Brunswick 2	Millstone 2	Quad Cities 2
Calvert Cliffs 1	Monticello	Rancho Seco 1
Connecticut Yankee (Haddam)	Nine Mile Point 1	Robinson 2
Cook 1	Oconee 1	San Onofre 1
Cooper	Oconee 2	Surry 1
Dresden 2	Oconee 3	Surry 2
Dresden 3	Oyster Creek 1	Three Mile Island 1
Fitzpatrick	Palisades	Trojan
Fort Calhoun 1	Peach Bottom 2	Vermont Yankee
Ginna 1	Peach Bottom 3	Zion 1
Hatch 1	Pilgrim 1	

Table 2.2. Coal generating units included in analysis (125 total)

Amos 1	Conesville 5	Mohave 2
Amos 2	Eastlake 5	Monroe 1
Avon Lake 9	Fort Martin 1	Monroe 2
Bailey 8	Fort Martin 2	Monroe 3
Baldwin 1	Four Corners 4	Monroe 4
Baldwin 2	Four Corners 5	Montour 1
Baldwin 3	Gannon 6	Montour 2
Barry 4	Gaston 5	Mount Storm 1
Barry 5	Gavin 1	Mount Storm 2
Beckjord 6	Ghent 1	Mount Storm 3
Belews Creek 1	Gibson 2	Muskingum 5
Belows Creek 2	Gorgas 10	Neal 3
Big Bend 1	Hammond 4	Paradise 1
Big Bend 2	Harlee Branch 3	Paradise 2
Big Sandy 2	Harlee Branch 4	Paradise 3
Bowen 1	Harrison 1	Petersburg 2
Bowen 2	Harrison 2	Roxboro 1
Bowen 3	Harrison 3	Roxboro 2
Bowen 4	Hatfield 1	Roxboro 3
Breed 1	Hatfield 2	Rush Island 1
Bridger 1	Hatfield 3	Sammis 6
Bridger 2	Hawthorn 5	Sammis 7
Bridger 3	Homer City 1	Schafer 14
Brown 3	Homer City 2	Sherburne County 1
Brunner Island 2	Hudson 2	Sioux 1
Brunner Island 3	Keystone 1	Sioux 2
Bull Run 1	Keystone 2	Sporn 5
Cardinal 1	Kincaid 1	St. Clair 7
Cardinal 2	Kincaid 2	Stout 7
Cayuga 1	King 1	Stuart 1
Cayuga 2	Labadie 1	Stuart 2
Centralia 1	Labadie 2	Stuart 3
Centralia 2	Labadie 3	Stuart 4
Chesterfield 6	Labadie 4	Tanners Creek 4
Cheswick 1	La Cygne 1	Trenton Channel 9
Cliffside 5	Marshall 3	Watson 5
Coffeen 2	Marshall 4	Widows Creek 7
Colbert 5	Miami Fort 7	Widows Creek 8
Columbia 1	Michigan City 12	Will County 4
Conemaugh 1	Mitchell 1	Yates 6
Conemaugh 2	Mitchell 2	Yates 7
Conesville 4	Mohave 1	

3. DATA BASE

3.1 Source of Data

The primary source of the data used in this report is the data base obtained from NERC. These data were merged with DOE unit characteristic data taken from the Federal Power Commission "383" data files. The resulting merged data base allowed analysis based on various unit locations, fuel types, performance factors, ages, and sizes.

3.2 Selection of Units

For the purposes of this analysis, the 47 nuclear units and 125 coal-fired units were selected on the basis of nameplate ratings equal to or greater than 400 MW(e) and available data for at least one full calendar year of performance. Nuclear units such as Dresden 1, which is rated less than 400 MW(e), were excluded. Also omitted were units with both coal- and oil-firing capability that were not burning coal as their primary fuel in 1977. Finally, oil units that have been converted to coal since 1977 are not included in this report.

3.3 Nameplate Rating

Unit nameplate capacity ratings rather than unit maximum dependable capacity (MDC) ratings were utilized to identify unit sizes. This method was used because of the wide yearly variation in MDC ratings reported for many units. Significant discrepancies were found between the DOE and NERC data bases in nameplate ratings of identical units. Examples of these discrepancies are shown in Table 3.1. The DOE nameplate ratings were used to classify the size of each unit because these ratings are taken directly from the nameplates affixed to the units.

3.4 Commercial Operating Date

Commercial operating dates were used to define unit vintage and age. Here again, inconsistencies were found between the DOE and NERC data bases. Examples of these differences are shown in Table 3.2. The NERC-designated commercial operating dates were used because these dates define the beginning of the performance data supplied by NERC; as defined by NERC, the commercial operating date of a unit is that date the unit was "first paralleled for load."

3.5 Performance Indices

Four industry-recognized performance indices were used in the study: (1) capacity factor, (2) availability factor, (3) equivalent availability, and (4) forced outage rate. Each index is calculated, as shown in Table 3.3, using the definitions in EEI Publication No. 77-64, Report on Equipment Availability for the Ten-Year Period 1967 through 1976. Definitions of each of the terms used in these calculations are provided in Appendix A.

Each index measures a specific performance aspect for a generating unit; however, no one index adequately describes the overall performance of a unit. The annual availability factor measures only the percentage of time during the year the unit was capable of producing power, including time when the unit was capable of producing power only at partial load and time when the unit was not in service because more economical units were being utilized. The equivalent availability provides an adjustment of the availability factor by factoring in the effect of partial deratings [losses measured in megawatts (electric) output capability] caused by partial forced and partial scheduled

outages. The equivalent availability is the fraction of the year during which the unit was available for operation at full capacity. Although the equivalent availability provides a measure of the time the unit is incapable of producing power, it does not distinguish between forced and scheduled outages, nor does it measure the actual megawatts generated. Downtime from forced outages and actual megawatt generation is measured by the forced outage rate and capacity factor, respectively. To summarize, each performance index is limited to defining a specific aspect of unit performance, and evaluation of the overall performance of a power plant requires a collective review of all four indices.

Table 3.1. Examples of discrepancies in nameplate ratings

Unit	Nameplate rating [MW(e)]	
	DOE	NERC
Connecticut Yankee (Haddam)	600	616
Three Mile Island 1	871	837
Robinson 2	769	702
Ginna 1	517	496
Peach Bottom 2 and 3	1152	1098
Surry 1 and 2	848	822

Table 3.2. Examples of discrepancies in commercial operating dates

Unit	Commercial operating dates	
	DOE	NERC
Connecticut Yankee (Haddam)	1/68	8/67
Colbert 5	11/65	10/62
Widows Creek 7	2/61	9/60
Ghent 1	4/74	12/73
Paradise 3	2/70	5/69

Table 3.3 Calculation of unit performance indices

Capacity Factor	=	$\frac{\text{Total Gross Generation in MWh}}{(\text{Period Hours}) \times (\text{Maximum Dependable Capacity})}$
Availability Factor	=	$\frac{\text{Available Hours}}{\text{Period Hours}}$
Equivalent Availability	=	$\frac{(\text{Available Hours}) - [(\text{Equivalent Forced}) + (\text{Scheduled Outage Hours})]}{\text{Period Hours}}$
Forced Outage Rate	=	$\frac{\text{Forced Outage Hours}}{(\text{Service Hours}) + (\text{Forced Outage Hours})}$

4. ANALYSIS METHODS

4.1 Data Aggregation

The 47 nuclear and 125 coal units analyzed in this study were selected on the basis of (1) their primary fuel type, coal or nuclear; (2) their nameplate rating, 400 MW(e) and larger; and (3) a minimum operating life of one full calendar year. The unit performance data were aggregated as a function of service life. The four performance factors – capacity factor, availability factor, equivalent availability, and forced outage rate – were averaged to provide the following service life histories:

- lifetime averages (i.e., the cumulative average of the lifetime performance of a unit as a function of life year);
- life-year averages (i.e., the average of all units during their first, second, ..., tenth year of life); and
- calendar-year averages (i.e., the average of all unit data in 1968, ..., 1977).

Each of these three averages was then aggregated by operating utility and site location and compiled as follows:

- by individual units, translated to a national average;
- by units in each state;
- by units operated by each utility; and
- by units operated by each utility in a given state.

4.2 Lifetime Averages (Through 1977)

Lifetime averages were calculated by averaging the annual factors for all of a given unit's years of data beginning with its first full calendar year of operation. The performance data for the first partial year of calendar operation, from start-up to December 31, were not included in the analysis because they were believed to be influenced heavily by start-up testing and inspection procedures and therefore would distort the picture. All lifetime averages were calculated through the year 1977.

In several cases, the NERC data did not cover all the years a unit was in operation; because the submittal of data is voluntary, some utilities dropped in and out of the data base. In some of these cases, NERC may have rejected data because of inconsistencies, and the utility may not have resolved these problems and resubmitted the data. Thus, lifetime averages were calculated only up to the first year of missing data rather than over the unit lifetime. The lifetime average, then, for a unit in commercial operation since 1968, but missing 1971 data, would cover only 1968 through 1970. A unit missing data from its first full year of commercial operation does not appear at all in the lifetime-average tables in this report.

4.3 Life-Year Averages

Life-year averages were calculated by aligning the years of service (i.e., first, second, third) for each unit and then averaging all the unit data for each full calendar year of operation.

4.4 Calendar-Year Averages

Calendar-year averages were obtained by averaging the individual unit data for each unit operating during a given calendar year, excluding partial first years of operation.

4.5 Regional Analysis

Merging of the DOE and NERC data bases allowed the aggregation of units by state and utility. The three types of averages explained previously were then calculated for all units as follows:

- within the nation,
- within each state,
- within each utility, and
- within each utility in a given state.

4.6 Rankings

Calendar-year averages were then ordered to allow ranking of states and utilities by the four performance factors. This ranking is admittedly a crude measure (e.g., many states contain only a single nuclear unit, and differences among states and utilities most often reflect random statistical variations). However, some broad indications of actual, discrete differences might become apparent from such a ranking and provide direction to productivity improvement studies.

5. RESULTS OF ANALYSIS

The results of the analysis are contained in the computer-generated data tables included in Appendixes B through G.

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Appendix A
DATA DEFINITIONS

Appendix A

DATA DEFINITIONS

Available: Status of a unit or major piece of equipment that is capable of service, whether or not it is actually in service.

Availability factor: $(AH/PH) \times 100$

Available hours (AH): Time (h) during which a unit or major equipment is available (SH + RSH).

Service hours (SH): Total number of hours the unit was actually operated with breakers closed to the station bus.

Reserve shutdown: Removal of a unit from service for economy or similar reasons. This status continues as long as the unit is out but available for operation.

Reserve shutdown hours (RSH): Reserve shutdown duration in hours.

Period hours (PH): Clock hours in the period under consideration (generally 1 year).

Unavailable: Status of any major piece of equipment rendered inoperable because of failure of a component, work being performed, or other adverse conditions.

Maintenance outage: Removal of a unit from service to perform work on specific components, which could have been postponed past the very next weekend. This work, which could not be postponed from season to season, is done to prevent a potential forced outage.

Maintenance outage hours (MOH): Time (h) during which a unit or major equipment is not available because of a maintenance outage.

Planned outage: Removal of a unit from service for inspection and/or general overhaul of one or more major equipment groups. This work is usually scheduled well in advance (e.g., annual boiler overhaul, five-year turbine overhaul).

Planned outage hours (POH): Time (h) during which a unit or major equipment is unavailable because of a planned outage.

Equivalent availability factor: $[[AH - (EFOH + ESOH)] \times 100]/PH$

Scheduled partial outage:	Reduction of the unit load by 2% or more, which was caused by the occurrence of a component failure or other condition and which could be postponed past the very next weekend.
Scheduled partial outage hours (SPOH):	Time (h) during which a unit or major equipment is unavailable for full load due to a scheduled partial outage.
Equivalent scheduled outage hours (ESOH):	$\Sigma[\text{Scheduled partial outage hours} \times \text{size of reduction/MDC}]$.
Forced partial outage:	Occurrence of a component failure or other condition which requires that the load on the unit be reduced 2% or more immediately or up to and including the very next weekend.
Forced partial outage hours (FPOH):	Time (h) during which a unit or major equipment is unavailable for full load because of a forced partial outage.
Equivalent forced outage hours (EFOH):	$\Sigma[\text{Forced partial outage hours} \times \text{size of reduction/MDC}]$.
Size of reduction:	Change in MW in the unit output resulting from a partial outage.

Capacity factor: $\frac{\text{Total gross generation in MWh} \times 100}{PH \times MDC}$

Maximum dependable capacity (MDC):	Dependable main-unit capacity, winter or summer, whichever is smaller.
------------------------------------	--

Forced outage rate: $[FOH/(SH + FOH)] \times 100$

Forced outage:	Occurrence of a component failure or other condition which requires that the unit be removed from service immediately or up to and including the very next weekend.
Forced outage hours (FOH):	Time (h) during which a unit or major equipment was unavailable because of a forced outage.

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Appendix B
NATIONAL DATA

TABLE B-1: NATIONAL AVERAGE PERFORMANCE FACTORS BY CALENDAR YEAR

FACTOR	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
AVAILABILITY										
NUCLEAR	59.3	81.7	79.9	81.1	76.5	81.0	66.7	72.9	67.9	77.3
COAL	79.4	75.1	73.7	75.9	71.2	77.0	72.2	74.0	72.2	71.3
CAPACITY										
NUCLEAR	53.2	70.9	71.8	60.5	60.3	67.9	55.1	62.2	61.3	67.6
COAL	70.9	68.5	62.0	62.2	59.2	63.5	57.1	57.3	58.7	56.6
EQUIVALENT AVAILABILITY										
NUCLEAR	56.3	79.9	62.2	75.6	72.6	76.6	59.5	62.4	63.5	69.2
COAL	75.8	69.9	64.1	67.0	64.8	69.8	65.0	64.7	65.7	61.0
FORCED OUTAGE										
NUCLEAR	37.3	7.0	5.4	10.0	5.3	10.1	20.3	15.7	15.0	8.7
COAL	9.3	13.0	14.7	13.7	16.8	13.1	16.0	13.5	14.0	15.1
<u>NUMBER OF UNITS</u>										
NUCLEAR	2	2	3	7	5	13	25	37	42	42
COAL	16	26	43	56	73	83	101	112	119	100

TABLE B-2: NATIONAL AVERAGE PERFORMANCE FACTORS BY LIFE YEAR

FACTOR	1	2	3	4	5	6	7	8	9	10
AVAILABILITY										
NUCLEAR	74.9	68.2	69.6	74.1	76.1	78.7	81.3	78.6	76.4	--
COAL	73.7	75.2	75.7	75.0	73.7	72.1	74.2	70.3	70.4	74.0
CAPACITY										
NUCLEAR	58.1	58.1	62.3	66.0	66.2	70.2	74.3	72.2	73.4	--
COAL	59.4	62.7	63.3	60.9	60.3	59.7	60.0	58.2	57.8	63.3
EQUIVALENT AVAILABILITY										
NUCLEAR	66.9	64.1	64.2	66.3	70.2	71.3	69.1	48.0	75.0	--
COAL	66.7	68.5	68.1	68.3	66.9	63.9	64.3	61.7	63.6	62.7
FORCED OUTAGE										
NUCLEAR	17.3	17.0	14.6	10.6	10.5	6.8	9.5	2.6	2.3	--
COAL	14.0	13.0	13.3	13.8	14.2	13.2	14.4	15.9	13.8	15.1
<u>NUMBER OF UNITS</u>										
NUCLEAR	35	41	36	23	17	10	9	5	2	0
COAL	101	107	102	95	82	74	57	46	30	20

Appendix C
STATE DATA

TABLE C-1: LIFETIME PERFORMANCE FACTORS (BY STATE)

STATE	NUCLEAR				COAL			
	A.F.	C.F.	E.A.	F.O.R.	A.F.	C.F.	E.A.	F.O.R.
ALABAMA	61.6	40.0	52.7	37.7	72.3	58.8	60.1	15.0
ARKANSAS	70.0	62.7	70.0	11.2	--	--	--	--
CALIFORNIA	77.7	72.8	60.6	33.8	--	--	--	--
CONNECTICUT	79.1	67.7	55.8	9.8	--	--	--	--
FLORIDA	--	--	--	--	75.6	64.0	67.4	4.6
GEORGIA	--	--	--	--	73.3	56.1	59.3	16.4
ILLINOIS	71.3	55.9	62.2	11.0	70.9	57.9	64.4	12.6
INDIANA	--	--	--	--	78.3	61.7	66.2	9.2
IOWA	78.5	59.0	70.5	4.1	82.9	62.8	61.7	6.3
KANSAS	--	--	--	--	55.7	33.0	55.7	34.3
KENTUCKY	--	--	--	--	75.3	58.7	65.3	10.0
MARYLAND	83.4	81.3	80.2	3.4	--	--	--	--
MASSACHUSETTS	65.2	49.0	50.1	19.7	--	--	--	--
MICHIGAN	54.8	59.3	48.3	26.4	77.4	64.1	67.9	13.2
MINNESOTA	78.4	71.6	72.4	11.6	67.7	29.4	63.7	11.5
MISSISSIPPI	--	--	--	--	50.6	53.9	45.9	17.4
MISSOURI	--	--	--	--	75.3	58.6	60.7	12.5
NEBRASKA	79.8	61.0	76.6	6.1	--	--	--	--
NEVADA	--	--	--	--	70.8	54.6	58.8	21.7
NEW JERSEY	77.9	69.7	72.4	8.1	56.4	40.6	50.1	31.6
NEW MEXICO	--	--	--	--	70.9	61.7	61.1	18.7
NEW YORK	72.1	64.6	70.4	7.1	--	--	--	--
NORTH CAROLINA	55.8	36.1	54.3	22.0	82.0	68.0	76.8	7.1
OHIO	--	--	--	--	75.0	60.0	70.6	15.2
OREGON	76.9	70.3	73.9	11.0	--	--	--	--
PENNSYLVANIA	75.6	64.8	63.4	12.2	72.8	62.6	65.6	16.3

Table C-1 (continued)

STATE	NUCLEAR				COAL			
	A.F.	C.F.	E.A.	F.O.R.	A.F.	C.F.	E.A.	F.O.R.
SOUTH CAROLINA	70.3	65.2	65.6	17.4	--	--	--	--
TENNESSEE	--	--	--	--	76.8	71.4	71.9	8.8
VIRGINIA	65.3	62.9	65.3	14.9	65.5	49.5	55.2	17.1
WASHINGTON	--	--	--	--	60.0	50.9	58.1	13.6
WEST VIRGINIA		--	--	--	73.9	64.0	70.2	18.7
WISCONSIN	84.3	73.8	82.4	7.1	81.4	61.8	77.1	2.4
WYOMING	--	--	--	--	83.4	62.0	76.6	4.3

TABLE C-2: AVERAGE AVAILABILITY FACTORS FOR CALENDAR YEARS (BY STATE)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
NUCLEAR	--	--	--	--	--	--	60.1	20.1	27.9	88.3
COAL	75.3	78.3	76.1	82.3	54.1	73.5	72.0	69.5	64.1	66.1
ARKANSAS										
NUCLEAR	--	--	--	--	--	--	--	77.1	56.6	76.4
CALIFORNIA										
NUCLEAR	41.7	77.1	84.9	93.4	96.2	62.1	86.1	87.4	49.2	77.1
CONNECTICUT										
NUCLEAR	76.8	86.3	77.7	--	--	--	91.2	80.9	82.8	77.7
FLORIDA										
COAL	--	--	63.3	69.9	81.2	76.5	79.0	72.1	61.1	71.9
GEORGIA										
NUCLEAR	--	--	--	--	--	--	--	--	83.1	66.2
COAL	--	--	--	--	74.8	72.4	66.9	69.8	61.7	68.9
ILLINOIS										
NUCLEAR	--	--	--	65.0	43.3	95.0	65.9	58.6	72.8	81.1
COAL	67.4	64.3	71.4	73.9	70.5	72.1	75.2	67.1	63.4	67.7
INDIANA										
COAL	72.2	79.7	70.8	72.8	62.9	80.6	79.7	77.0	77.4	75.4
IOWA										
NUCLEAR	--	--	--	--	--	--	--	79.5	77.0	78.9
COAL	--	--	--	--	--	--	--	--	92.1	73.6
KANSAS										
COAL	--	--	--	--	--	--	48.3	59.1	65.8	49.4
KENTUCKY										
COAL	83.1	73.6	73.2	75.4	75.3	75.6	69.9	75.2	72.9	65.1
MAINE										
NUCLEAR	--	--	--	--	--	--	68.7	79.9	96.0	82.2
MARYLAND										
NUCLEAR	--	--	--	--	--	--	--	--	95.0	71.8
MASSACHUSETTS										
NUCLEAR	--	--	--	--	--	86.6	39.2	74.3	60.8	--
MICHIGAN										
NUCLEAR	--	--	--	--	--	12.9	5.5	64.5	55.0	91.4
COAL	93.8	92.4	83.2	87.8	79.7	79.4	79.6	76.0	72.0	79.0
MINNESOTA										
NUCLEAR	--	--	--	--	--	95.5	61.8	80.3	81.6	87.2
COAL	--	68.0	--	--	86.7	67.8	82.0	78.0	79.9	67.4

Table C-2 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
MISSISSIPPI COAL	--	--	--	--	--	--	49.4	74.3	28.0	--
MISSOURI COAL	--	--	79.7	78.4	57.2	70.2	67.8	77.6	74.1	76.1
NEBRASKA NUCLEAR	--	--	--	--	--	--	92.6	76.3	72.5	82.9
NEVADA COAL	--	--	--	48.9	70.4	70.0	77.0	69.6	77.4	--
NEW JERSEY NUCLEAR	--	--	77.0	96.5	82.4	73.2	70.4	73.3	79.3	71.5
COAL	--	38.9	71.8	65.9	1.0	75.7	64.1	53.5	77.0	59.9
NEW MEXICO COAL	--	--	69.3	71.6	81.6	80.5	72.3	56.0	67.8	67.9
NEW YORK NUCLEAR	--	--	--	78.6	--	95.0	74.1	76.0	58.4	73.4
NORTH CAROLINA NUCLEAR	--	--	--	--	--	--	--	--	56.0	55.7
COAL	89.7	81.2	79.0	83.3	84.4	86.4	85.0	82.1	85.0	77.0
OHIO COAL	87.9	74.3	76.5	73.5	77.2	77.9	70.0	74.9	70.8	65.2
OREGON NUCLEAR	--	--	--	--	--	--	--	--	--	76.9
PENNSYLVANIA NUCLEAR	--	--	--	--	--	--	--	81.1	71.4	66.1
COAL	76.3	73.6	63.6	70.2	73.8	81.8	72.1	76.3	72.6	71.0
SOUTH CAROLINA NUCLEAR	--	--	--	56.9	88.4	75.2	71.3	74.8	68.4	70.8
TENNESSEE COAL	76.1	73.5	76.9	85.2	33.9	94.2	92.0	72.0	86.7	66.6
VERMONT NUCLEAR	--	--	--	--	--	--	74.1	87.8	78.0	85.1
VIRGINIA NUCLEAR	--	--	--	--	--	--	50.6	79.7	30.3	72.3
COAL	--	--	63.5	77.5	72.2	74.7	87.0	55.3	71.9	21.7
WASHINGTON COAL	--	--	--	--	52.4	73.4	8.3	71.5	70.5	79.7
WEST VIRGINIA COAL	84.2	82.8	83.2	86.5	80.8	74.2	74.1	77.5	76.5	75.1
WISCONSIN NUCLEAR	--	--	--	98.8	72.3	85.9	80.2	84.7	84.1	84.6
COAL	--	--	--	--	--	--	--	--	79.4	83.4
WYOMING COAL	--	--	--	--	--	--	--	75.0	86.2	83.4

TABLE C-3: AVERAGE CAPACITY FACTORS FOR CALENDAR YEARS (BY STATE)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
NUCLEAR	--	--	--	--	--	--	29.1	10.3	15.4	60.3
COAL	64.5	65.5	62.5	61.5	43.1	62.3	50.7	48.8	50.7	49.1
ARKANSAS										
NUCLEAR	--	--	--	--	--	--	--	66.4	52.5	69.1
CALIFORNIA										
NUCLEAR	34.3	69.8	81.3	92.1	78.5	62.8	84.0	86.5	47.1	75.7
CONNECTICUT										
NUCLEAR	72.1	71.9	69.6	--	--	--	00.4	76.2	70.9	73.8
FLORIDA										
COAL	--	--	46.0	46.7	61.4	57.4	63.2	61.0	48.1	62.9
GEORGIA										
NUCLEAR	--	--	--	--	--	--	--	--	63.0	61.2
COAL	--	--	--	--	50.2	51.2	50.2	50.7	49.4	53.8
ILLINOIS										
NUCLEAR	--	--	--	39.6	47.4	67.0	50.2	48.0	57.6	59.8
COAL	52.5	50.8	55.5	56.2	54.9	54.1	59.2	52.8	52.7	53.5
INDIANA										
COAL	67.7	80.7	64.1	55.4	52.8	69.8	63.5	59.6	61.3	54.0
IOWA										
NUCLEAR	--	--	--	--	--	--	--	52.2	59.3	65.6
COAL	--	--	--	--	--	--	--	--	70.9	54.8
KANSAS										
COAL	--	--	--	--	--	--	23.3	35.3	42.4	31.1
KENTUCKY										
COAL	81.3	79.4	61.9	67.4	67.3	66.4	61.4	52.0	61.5	54.2
MAINE										
NUCLEAR	--	--	--	--	--	--	62.7	71.4	88.8	77.2
MARYLAND										
NUCLEAR	--	--	--	--	--	--	--	--	92.8	69.8
MASSACHUSETTS										
NUCLEAR	--	--	--	--	--	72.2	34.9	46.0	42.8	--
MICHIGAN										
NUCLEAR	--	--	--	--	37.0	41.0	1.5	44.0	62.3	80.1
COAL	75.0	83.0	74.9	80.3	69.5	72.5	66.5	64.3	56.9	62.8
MINNESOTA										
NUCLEAR	--	--	--	--	--	67.2	47.7	73.4	71.1	85.8
COAL	--	58.6	--	--	69.8	58.2	63.0	63.3	65.7	0.2

Table C-3 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
MISSISSIPPI COAL	--	--	--	--	--	--	49.3	53.8	58.5	--
MISSOURI COAL	--	--	64.1	54.0	36.3	51.5	48.5	58.7	55.9	57.0
NEBRASKA NUCLEAR	--	--	--	--	--	--	61.0	56.1	55.8	71.0
NEVADA COAL	--	--	--	22.5	51.0	53.7	60.9	59.0	62.4	--
NEW JERSEY NUCLEAR COAL	-- --	-- 27.0	73.2 53.1	78.2 46.9	81.3 1.7	67.9 61.1	66.8 43.5	57.6 28.9	73.1 58.5	59.2 44.7
NEW MEXICO COAL	--	--	40.3	64.0	73.2	71.4	63.2	49.1	59.8	61.5
NEW YORK NUCLEAR	--	--	63.2	66.1	--	94.2	54.0	66.8	53.1	66.2
NORTH CAROLINA NUCLEAR COAL	-- 74.2	-- 68.1	-- 67.0	-- 73.1	-- 72.7	-- 73.5	-- 68.2	-- 65.2	36.4 67.2	35.7 61.6
OHIO COAL	84.1	74.1	67.9	63.4	67.1	67.2	50.3	55.8	58.1	42.5
OREGON NUCLEAR	--	--	--	--	--	--	--	--	--	70.3
PENNSYLVANIA NUCLEAR COAL	-- 70.1	-- 66.9	-- 55.5	-- 62.0	-- 63.7	-- 68.9	-- 57.0	66.8 65.2	66.9 65.2	60.0 62.3
SOUTH CAROLINA NUCLEAR	--	--	--	41.6	82.1	65.0	69.0	70.7	65.6	63.9
TENNESSEE COAL	68.3	68.5	67.5	73.2	69.1	73.1	83.6	62.3	79.5	53.5
VERMONT NUCLEAR	--	--	--	--	--	--	59.8	85.1	72.6	78.4
VIRGINIA NUCLEAR COAL	-- --	-- --	-- 42.3	-- 58.8	-- 60.0	-- 59.6	45.5 67.0	68.4 36.0	58.9 43.2	71.2 29.3
WASHINGTON COAL	--	--	--	--	31.6	45.3	37.3	54.2	53.9	73.1
WEST VIRGINIA COAL	79.7	76.6	71.4	74.2	72.4	64.1	60.0	60.2	64.8	62.2
WISCONSIN NUCLEAR COAL	-- --	-- --	-- --	39.7 --	35.5 --	72.3 --	76.1 --	75.0 --	81.2 61.3	82.4 62.2
WYOMING COAL	--	--	--	--	--	--	--	44.7	48.3	72.6

TABLE C-4: AVERAGE EQUIVALENT AVAILABILITY FOR CALENDAR YEARS (BY STATE)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
NUCLEAR	--	--	--	--	--	--	20.8	20.0	27.6	74.9
COAL	73.0	76.6	69.6	76.8	50.8	63.6	62.7	41.9	53.3	52.9
ARKANSAS										
NUCLEAR	--	--	--	--	--	--	--	77.0	56.6	76.3
CALIFORNIA										
NUCLEAR	39.2	75.7	40.2	85.9	80.2	39.8	84.3	31.7	48.3	76.1
CONNECTICUT										
NUCLEAR	73.3	84.0	69.5	--	--	--	89.3	38.1	72.3	6.8
FLORIDA										
COAL	--	--	62.5	52.8	56.2	69.6	76.6	40.6	56.8	69.6
GEORGIA										
NUCLEAR	--	--	--	--	--	--	--	--	74.6	64.2
COAL	--	--	--	--	66.4	53.7	50.6	55.1	56.2	53.6
ILLINOIS										
NUCLEAR	--	--	--	35.0	32.1	92.3	58.6	48.7	60.8	66.9
COAL	59.3	53.9	59.2	62.8	60.1	64.3	63.0	62.7	59.2	51.5
INDIANA										
COAL	68.2	75.1	53.2	69.9	61.2	78.1	75.7	70.9	72.9	52.3
IOWA										
NUCLEAR	--	--	--	--	--	--	--	62.0	74.2	75.4
COAL	--	--	--	--	--	--	--	--	58.2	65.1
KANSAS										
COAL	--	--	--	--	--	--	48.3	59.1	65.8	49.4
KENTUCKY										
COAL	80.7	56.9	37.2	40.4	63.7	58.1	63.5	65.2	60.1	58.4
MAINE										
NUCLEAR	--	--	--	--	--	--	55.1	66.8	92.9	79.8
MARYLAND										
NUCLEAR	--	--	--	--	--	--	--	--	90.6	69.7
MASSACHUSETTS										
NUCLEAR	--	--	--	--	--	71.7	37.4	49.6	41.7	--
MICHIGAN										
NUCLEAR	--	--	--	--	81.3	11.2	1.9	41.2	50.0	86.6
COAL	93.8	92.1	79.8	85.6	74.9	73.6	70.2	65.2	60.8	69.3
MINNESOTA										
NUCLEAR	--	--	--	--	--	95.5	39.9	79.7	80.9	87.2
COAL	--	66.0	--	--	86.4	67.6	79.8	78.0	79.7	61.3

Table C-4 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
MISSISSIPPI COAL	--	--	--	--	--	--	48.0	67.5	22.3	--
MISSOURI COAL	--	--	66.9	69.1	49.8	63.5	59.8	68.4	65.6	54.4
NEBRASKA NUCLEAR	--	--	--	--	--	--	92.6	69.6	68.8	82.9
NEVADA COAL	--	--	--	1.5	68.1	56.5	69.4	59.1	68.2	--
NEW JERSEY NUCLEAR	--	--	77.0	96.3	82.2	67.2	66.1	59.2	70.7	60.4
COAL	--	37.4	62.9	63.7	1.0	67.3	55.3	37.9	72.7	52.9
NEW MEXICO COAL	--	--	54.3	54.3	71.4	72.1	62.8	47.6	61.6	62.7
NEW YORK NUCLEAR	--	--	--	78.1	--	95.0	74.1	74.7	57.3	70.6
NORTH CAROLINA NUCLEAR	--	--	--	--	--	--	--	--	53.6	55.1
COAL	89.2	79.8	74.6	80.9	79.5	85.1	81.9	78.2	81.1	69.9
OHIO COAL	85.4	68.4	70.8	70.1	74.2	73.7	64.3	69.3	65.7	62.7
OREGON NUCLEAR	--	--	--	--	--	--	--	--	--	73.9
PENNSYLVANIA NUCLEAR	--	--	--	--	--	--	--	63.6	66.2	64.2
COAL	70.4	64.4	60.2	66.4	68.2	73.3	64.1	67.6	66.3	63.2
SOUTH CAROLINA NUCLEAR	--	--	--	56.9	87.7	74.1	61.5	71.7	66.6	63.0
TENNESSEE COAL	71.3	71.9	74.4	49.3	32.9	94.0	91.8	70.4	85.9	61.7
VERMONT NUCLEAR	--	--	--	--	--	--	62.1	81.9	78.0	81.6
VIRGINIA NUCLEAR	--	--	--	--	--	--	50.6	79.7	30.3	72.3
COAL	--	--	61.0	69.8	68.9	66.8	59.2	48.8	59.3	7.7
WASHINGTON COAL	--	--	--	--	52.4	73.4	8.3	71.5	65.9	73.8
WEST VIRGINIA COAL	80.2	80.7	80.7	84.9	69.3	72.0	68.3	71.5	70.9	69.6
WISCONSIN NUCLEAR	--	--	--	98.8	72.3	85.9	79.0	79.9	83.8	84.4
COAL	--	--	--	--	--	--	--	--	70.9	83.2
WYOMING COAL	--	--	--	--	--	--	--	75.0	79.6	73.0

TABLE C-5: AVERAGE FORCED OUTAGE RATES FOR CALENDAR YEARS (BY STATE)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
NUCLEAR	--	--	--	--	--	--	22.0	87.4	67.6	11.0
COAL	11.8	8.8	9.0	12.0	33.1	16.9	21.0	22.4	24.8	21.6
ARKANSAS										
NUCLEAR	--	--	--	--	--	--	--	6.7	21.6	5.3
CALIFORNIA										
NUCLEAR	57.8	9.9	--	2.1	1.5	23.7	7.2	0.2	36.1	1.2
CONNECTICUT										
NUCLEAR	16.7	4.1	3.3	--	--	--	8.9	9.9	6.4	12.6
FLORIDA										
COAL	--	--	16.8	6.2	5.6	12.9	8.2	7.5	13.7	8.6
GEORGIA										
NUCLEAR	--	--	--	--	--	--	--	--	8.6	9.8
COAL	--	--	--	--	21.6	14.4	23.2	21.5	21.2	17.1
ILLINOIS										
NUCLEAR	--	--	--	14.2	15.3	2.9	17.7	18.9	8.3	4.3
COAL	8.9	16.9	12.6	12.4	13.0	10.4	13.1	14.6	17.8	10.9
INDIANA										
COAL	15.0	12.9	11.6	21.6	19.1	7.2	7.0	7.3	7.9	12.8
IOWA										
NUCLEAR	--	--	--	--	--	--	--	6.1	3.7	2.5
COAL	--	--	--	--	--	--	--	--	3.9	8.8
KANSAS										
COAL	--	--	--	--	--	--	39.8	29.8	27.2	40.2
KENTUCKY										
COAL	3.9	11.1	17.0	11.3	9.1	16.3	10.5	15.1	11.6	15.4
MAINE										
NUCLEAR	--	--	--	--	--	--	2.6	3.7	0.7	0.5
MARYLAND										
NUCLEAR	--	--	--	--	--	--	--	--	1.6	5.2
MASSACHUSETTS										
NUCLEAR	--	--	--	--	--	3.0	48.1	18.3	9.4	--
MICHIGAN										
NUCLEAR	--	--	--	--	--	54.9	94.3	31.8	19.5	5.8
COAL	4.6	1.1	4.6	3.7	12.2	5.9	14.0	14.2	16.5	14.0
MINNESOTA										
NUCLEAR	--	--	--	--	--	5.1	24.9	7.6	5.8	0.6
COAL	--	5.1	--	--	5.8	9.4	10.4	11.6	6.4	17.8

Table C-5 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
MISSISSIPPI COAL	--	--	--	--	--	--	29.9	12.3	9.9	--
MISSOURI COAL	--	--	13.6	16.8	33.5	19.5	14.1	10.6	12.4	11.0
NEBRASKA NUCLEAR	--	--	--	--	--	--	3.7	8.0	8.9	2.2
NEVADA COAL	--	--	--	50.1	23.6	21.8	18.5	20.0	11.0	--
NEW JERSEY NUCLEAR	--	--	7.4	1.4	4.9	14.4	16.3	11.4	1.8	6.8
COAL	--	60.4	23.8	25.3	96.6	19.8	15.5	17.0	11.2	14.5
NEW MEXICO COAL	--	--	15.1	11.7	13.5	12.1	26.6	25.0	20.5	22.5
NEW YORK NUCLEAR	--	--	--	2.3	--	4.6	15.8	4.8	14.5	6.2
NORTH CAROLINA NUCLEAR	--	--	--	--	--	--	--	--	30.2	13.9
COAL	3.4	6.6	11.2	4.4	5.8	6.3	4.2	4.7	6.5	9.7
OHIO COAL	7.4	13.1	17.6	20.1	10.0	14.5	19.7	13.9	15.1	29.0
OREGON NUCLEAR	--	--	--	--	--	--	--	--	--	11.0
PENNSYLVANIA NUCLEAR	--	--	--	--	--	--	--	13.0	11.5	19.4
COAL	10.3	22.2	25.6	14.4	17.1	12.4	18.7	13.3	14.4	16.8
SOUTH CAROLINA NUCLEAR	--	--	--	47.6	4.2	5.9	7.6	17.6	16.5	17.5
TENNESSEE COAL	15.4	7.1	4.5	2.4	7.0	4.8	2.7	11.4	13.2	16.5
VERMONT NUCLEAR	--	--	--	--	--	--	3.6	4.4	3.5	--
VIRGINIA NUCLEAR	--	--	--	--	--	--	36.7	9.8	33.7	13.5
COAL	--	--	35.3	10.0	5.7	12.2	8.2	10.5	19.5	35.5
WASHINGTON COAL	--	--	--	--	22.3	4.2	20.4	11.2	19.8	7.3
WEST VIRGINIA COAL	14.1	8.7	6.2	6.4	6.3	17.0	19.3	11.4	10.8	11.0
WISCONSIN NUCLEAR	--	--	--	0.5	0.5	3.9	5.1	9.6	1.8	7.4
COAL	--	--	--	--	--	--	--	--	0.4	4.4
WYOMING COAL	--	--	--	--	--	--	--	2.0	6.9	6.4

TABLE C-6: AVERAGE AVAILABILITY FACTORS FOR LIFE YEARS OF SERVICE (BY STATE)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
NUCLEAR	57.2	25.3	53.3	92.3	--	--	--	--	--	--
COAL	67.3	76.3	80.3	77.9	69.6	79.1	82.0	71.1	71.9	62.1
ARKANSAS										
NUCLEAR	77.1	56.6	76.4	--	--	--	--	--	--	--
CALIFORNIA										
NUCLEAR	41.7	52.6	81.0	93.4	96.2	62.1	86.1	87.4	70.2	--
CONNECTICUT										
NUCLEAR	83.3	76.0	77.7	--	75.6	76.1	90.4	86.1	82.5	--
FLORIDA										
COAL	82.2	66.6	73.9	77.1	84.4	62.8	63.7	76.8	52.4	69.5
GEORGIA										
NUCLEAR	--	83.1	66.2	--	--	--	--	--	--	--
COAL	85.5	73.9	67.6	58.9	57.8	68.0	62.4	53.0	84.0	--
ILLINOIS										
NUCLEAR	79.2	71.0	66.2	66.8	76.4	82.8	71.9	--	--	--
COAL	70.0	71.5	76.6	71.1	73.1	74.3	59.2	56.5	51.8	80.0
INDIANA										
COAL	76.0	81.9	79.2	72.2	85.9	70.4	80.2	76.7	66.8	78.4
IOWA										
NUCLEAR	79.5	77.0	78.9	--	--	--	--	--	--	--
COAL	92.1	73.6	--	--	--	--	--	--	--	--
KANSAS										
COAL	48.3	59.1	65.8	49.4	--	--	--	--	--	--
KENTUCKY										
COAL	70.1	77.0	82.2	79.0	74.2	68.1	78.9	70.9	75.9	72.2
MAINE										
NUCLEAR	--	68.7	79.9	96.0	82.2	--	--	--	--	--
MARYLAND										
NUCLEAR	95.0	71.8	--	--	--	--	--	--	--	--
MASSACHUSETTS										
NUCLEAR	86.6	39.2	74.3	60.8	--	--	--	--	--	--
MICHIGAN										
NUCLEAR	54.8	12.9	5.5	64.5	55.2	91.4	--	--	--	--
COAL	81.0	79.8	71.8	79.7	78.7	78.9	80.8	85.0	88.8	78.3
MINNESOTA										
NUCLEAR	65.5	85.9	80.5	78.7	91.5	--	--	--	--	--
COAL	67.7	--	--	86.7	67.8	82.0	78.0	79.9	--	--

Table C-6 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
MISSISSIPPI COAL	49.4	74.3	28.0	--	--	--	--	--	--	--
MISSOURI COAL	75.9	67.4	83.1	72.9	71.9	66.8	63.4	70.0	72.2	75.9
NEBRASKA NUCLEAR	88.9	71.4	77.9	79.5	--	--	--	--	--	--
NEVADA COAL	60.9	64.7	80.9	63.4	82.7	72.8	--	--	--	--
NEW JERSEY NUCLEAR	77.0	96.5	82.4	73.2	70.4	73.3	79.3	71.5	--	--
COAL	38.9	71.8	65.9	1.0	75.7	64.1	53.5	77.0	59.9	--
NEW MEXICO COAL	69.5	77.6	81.6	76.1	60.5	61.8	76.4	57.8	--	--
NEW YORK NUCLEAR	82.1	75.7	34.8	85.4	66.4	75.6	70.2	74.0	--	--
NORTH CAROLINA NUCLEAR	56.0	55.7	--	--	--	--	--	--	--	--
COAL	75.9	83.5	83.7	90.4	82.2	78.5	87.6	83.6	76.6	91.3
OHIO COAL	79.2	72.6	73.1	77.4	67.6	73.5	75.1	62.7	74.8	--
OREGON NUCLEAR	76.9	--	--	--	--	--	--	--	--	--
PENNSYLVANIA NUCLEAR	81.1	71.4	66.1	--	--	--	--	--	--	--
COAL	71.5	71.2	75.9	77.8	71.0	73.9	72.3	71.2	73.2	73.4
SOUTH CAROLINA NUCLEAR	66.8	74.1	67.0	72.4	72.7	84.7	85.2	--	--	--
TENNESSEE COAL	88.0	76.1	73.5	76.9	85.2	33.9	94.2	92.0	72.0	86.7
VERMONT NUCLEAR	--	74.1	87.8	78.0	85.1	--	--	--	--	--
VIRGINIA NUCLEAR	57.2	61.8	63.8	44.3	68.5	--	--	--	--	--
COAL	63.5	77.5	72.2	74.7	87.0	55.3	71.9	21.7	--	--
WASHINGTON COAL	61.1	44.7	39.2	69.7	73.6	82.9	--	--	--	--
WEST VIRGINIA COAL	68.9	86.5	79.2	82.8	80.0	76.6	80.4	75.8	73.0	74.8
WISCONSIN NUCLEAR	93.5	76.7	84.0	86.1	78.9	82.7	88.3	--	--	--
COAL	79.4	83.4	--	--	--	--	--	--	--	--
WYOMING COAL	78.3	88.1	81.6	--	--	--	--	--	--	--

TABLE C-7: AVERAGE CAPACITY FACTORS FOR LIFE YEARS OF SERVICE (BY STATE)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
NUCLEAR	32.6	15.7	40.3	51.6	--	--	--	--	--	--
COAL	57.4	63.8	66.6	64.6	57.1	68.0	71.6	56.7	56.4	49.5
ARKANSAS										
NUCLEAR	66.4	52.5	69.1	--	--	--	--	--	--	--
CALIFORNIA										
NUCLEAR	34.3	49.0	78.5	92.1	78.5	62.8	84.0	86.5	66.0	--
CONNECTICUT										
NUCLEAR	68.9	67.3	69.6	--	68.6	66.2	86.7	83.8	80.7	--
FLORIDA										
COAL	63.4	58.6	58.1	61.8	67.6	47.3	50.9	53.2	36.3	57.8
GEORGIA										
NUCLEAR	--	63.0	61.2	--	--	--	--	--	--	--
COAL	54.9	60.5	51.9	46.9	39.2	52.2	49.3	37.7	61.5	--
ILLINOIS										
NUCLEAR	55.6	56.5	54.2	50.1	54.3	68.9	51.5	--	--	--
COAL	59.6	60.4	65.0	61.3	57.2	57.7	47.6	45.5	35.9	55.0
INDIANA										
COAL	60.3	60.3	65.5	57.1	71.4	60.2	61.4	63.2	60.3	66.3
IOWA										
NUCLEAR	52.2	59.3	65.6	--	--	--	--	--	--	--
COAL	70.9	54.8	--	--	--	--	--	--	--	--
KANSAS										
COAL	23.3	35.3	42.4	31.1	--	--	--	--	--	--
KENTUCKY										
COAL	52.7	66.7	70.1	64.5	67.3	61.8	71.0	62.8	72.6	74.2
MAINE										
NUCLEAR	--	62.7	71.4	88.8	77.2	--	--	--	--	--
MARYLAND										
NUCLEAR	92.8	69.8	--	--	--	--	--	--	--	--
MASSACHUSETTS										
NUCLEAR	72.2	34.9	46.0	42.8	--	--	--	--	--	--
MICHIGAN										
NUCLEAR	56.8	41.0	1.5	44.0	47.8	80.1	--	--	--	--
COAL	67.1	68.4	58.5	66.8	69.3	64.3	67.7	74.4	77.9	70.4
MINNESOTA										
NUCLEAR	54.8	70.9	73.3	71.6	81.9	--	--	--	--	--
COAL	29.4	--	--	69.8	58.2	63.0	63.3	65.7	--	--

Table C-7 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
MISSISSIPPI COAL	49.3	53.8	58.5	--	--	--	--	--	--	--
MISSOURI COAL	57.9	49.5	61.0	53.7	50.1	48.1	44.6	49.4	60.9	53.2
NEBRASKA NUCLEAR	60.3	53.7	61.9	74.8	--	--	--	--	--	--
NEVADA COAL	37.4	49.1	61.9	54.8	68.1	53.9	--	--	--	--
NEW JERSEY NUCLEAR	73.2	78.2	81.3	67.9	66.8	57.6	73.1	59.2	--	--
COAL	27.0	53.1	46.9	1.7	61.1	43.5	28.9	58.5	44.7	--
NEW MEXICO COAL	49.8	69.7	74.4	66.8	54.5	52.4	68.2	52.8	--	--
NEW YORK NUCLEAR	60.0	63.8	30.3	81.7	58.7	67.8	64.5	65.8	--	--
NORTH CAROLINA NUCLEAR	36.4	35.7	--	--	--	--	--	--	--	--
COAL	67.1	71.2	73.4	74.3	66.5	64.7	66.6	63.4	56.4	74.1
OHIO COAL	67.9	60.8	63.0	56.8	54.2	58.3	56.0	48.2	58.3	--
OREGON NUCLEAR	70.3	--	--	--	--	--	--	--	--	--
PENNSYLVANIA NUCLEAR	66.8	66.9	60.0	--	--	--	--	--	--	--
COAL	64.1	62.2	63.7	64.8	60.9	63.0	60.5	65.6	66.1	64.8
SOUTH CAROLINA NUCLEAR	58.8	69.7	61.8	69.1	71.7	83.4	73.1	--	--	--
TENNESSEE COAL	87.0	68.3	68.5	67.5	73.2	69.1	73.1	83.6	62.3	79.5
VERMONT NUCLEAR	--	59.8	85.1	72.6	78.4	--	--	--	--	--
VIRGINIA NUCLEAR	50.7	50.0	72.0	62.6	68.0	--	--	--	--	--
COAL	42.3	58.8	60.0	59.6	67.0	36.0	43.2	29.3	--	--
WASHINGTON COAL	35.8	44.0	46.7	54.4	60.9	75.8	--	--	--	--
WEST VIRGINIA COAL	60.6	74.3	66.9	67.7	67.2	65.5	70.4	63.6	59.8	65.4
WISCONSIN NUCLEAR	60.8	63.5	78.7	81.2	76.4	78.4	85.0	--	--	--
COAL	61.3	62.2	--	--	--	--	--	--	--	--
WYOMING COAL	47.9	56.9	70.4	--	--	--	--	--	--	--

TABLE C-8: AVERAGE EQUIVALENT AVAILABILITY FOR LIFE YEARS OF SERVICE (BY STATE)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
NUCLEAR	41.3	25.3	49.5	67.4	--	--	--	--	--	--
COAL	64.7	68.8	61.9	56.4	60.7	71.1	78.8	68.4	64.6	56.9
ARKANSAS										
NUCLEAR	77.0	56.6	76.3	--	--	--	--	--	--	--
CALIFORNIA										
NUCLEAR	39.2	51.9	58.2	85.9	80.2	39.8	84.3	31.7	68.4	--
CONNECTICUT										
NUCLEAR	71.1	43.4	69.5	--	68.9	66.4	50.1	7.4	81.6	--
FLORIDA										
COAL	64.3	47.8	72.5	74.9	63.9	55.3	62.0	10.6	43.7	67.3
GEORGIA										
NUCLEAR	--	74.6	64.2	--	--	--	--	--	--	--
COAL	72.9	56.0	52.9	47.0	53.1	52.0	55.4	43.6	68.5	--
ILLINOIS										
NUCLEAR	69.4	66.4	58.1	52.9	61.9	72.6	54.4	--	--	--
COAL	65.9	67.7	70.1	66.0	65.9	65.8	44.9	47.2	40.5	34.5
INDIANA										
COAL	66.4	79.7	75.1	67.7	82.1	51.6	76.4	72.0	59.3	65.4
IOWA										
NUCLEAR	62.0	74.2	75.4	--	--	--	--	--	--	--
COAL	58.2	65.1	--	--	--	--	--	--	--	--
KANSAS										
COAL	48.3	59.1	65.8	49.4	--	--	--	--	--	--
KENTUCKY										
COAL	57.8	65.6	73.2	75.1	70.5	52.2	44.5	48.8	68.4	39.7
MAINE										
NUCLEAR	--	55.1	66.8	92.9	79.8	--	--	--	--	--
MARYLAND										
NUCLEAR	90.6	69.7	--	--	--	--	--	--	--	--
MASSACHUSETTS										
NUCLEAR	71.7	37.4	49.6	41.7	--	--	--	--	--	--
MICHIGAN										
NUCLEAR	66.4	11.2	1.9	41.2	48.4	86.6	--	--	--	--
COAL	73.3	70.7	62.5	71.0	72.5	68.0	74.1	82.0	83.6	75.2
MINNESOTA										
NUCLEAR	43.7	85.2	79.8	78.7	91.5	--	--	--	--	--
COAL	63.7	--	--	86.4	67.6	79.8	78.0	79.7	--	--

Table C-8 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
MISSISSIPPI COAL	48.0	67.5	22.3	--	--	--	--	--	--	--
MISSOURI COAL	65.6	59.1	72.0	58.5	63.5	59.3	43.2	64.5	65.7	60.9
NEBRASKA NUCLEAR	82.3	70.4	75.3	79.5	--	--	--	--	--	--
NEVADA COAL	36.8	53.9	71.9	54.4	73.2	63.7	--	--	--	--
NEW JERSEY NUCLEAR COAL	77.0 37.4	96.3 62.9	82.2 63.7	67.2 1.0	66.1 67.3	59.2 55.3	70.7 37.9	60.4 72.7	-- 52.9	-- --
NEW MEXICO COAL	47.5	68.5	73.8	67.5	49.6	56.0	69.8	53.8	--	--
NEW YORK NUCLEAR	81.6	73.9	32.6	83.8	66.4	75.4	69.6	70.2	--	--
NORTH CAROLINA NUCLEAR COAL	53.6 70.5	55.1 79.3	-- 76.6	-- 87.1	-- 80.9	-- 75.4	-- 85.4	-- 81.4	-- 74.4	-- 88.9
OHIO COAL	75.8	67.9	69.3	73.1	64.6	68.8	67.4	56.2	62.5	
OREGON NUCLEAR	73.9	--	--	--	--	--	--	--	--	--
PENNSYLVANIA NUCLEAR COAL	63.6 66.3	66.2 65.6	64.2 67.8	-- 69.8	-- 63.7	-- 67.5	-- 65.4	-- 62.0	-- 68.7	-- 70.7
SOUTH CAROLINA NUCLEAR	64.3	72.1	60.4	60.3	70.9	83.1	84.6	--	--	--
TENNESSEE COAL	87.0	71.3	71.9	74.4	49.3	32.9	94.0	91.8	70.4	85.9
VERMONT NUCLEAR	--	62.1	81.9	78.0	81.6	--	--	--	--	--
VIRGINIA NUCLEAR COAL	57.2 61.0	61.8 69.8	63.8 68.9	44.3 66.8	68.5 59.2	-- 48.8	-- 59.3	-- 7.7	-- --	-- --
WASHINGTON COAL	61.1	44.7	39.2	67.3	68.9	76.2	--	--	--	--
WEST VIRGINIA COAL	65.9	83.8	74.1	76.0	73.5	73.9	67.5	71.6	69.8	71.3
WISCONSIN NUCLEAR COAL	88.7 70.9	76.1 83.2	84.0 --	85.7 --	78.6 --	82.3 --	88.2 --	-- --	-- --	-- --
WYOMING COAL	74.9	80.5	70.6	--	--	--	--	--	--	--

TABLE C-9: AVERAGE FORCED OUTAGE RATES FOR LIFE YEARS OF SERVICE (BY STATE)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
NUCLEAR	41.5	73.1	45.2	4.1	--	--	--	--	--	--
COAL	12.3	16.3	10.9	12.4	17.2	11.5	9.3	4.8	14.1	33.0
ARKANSAS										
NUCLEAR	6.7	21.6	5.3	--	--	--	--	--	--	--
CALIFORNIA										
NUCLEAR	57.8	39.8	1.2	2.1	1.5	23.7	7.2	0.2	2.5	--
CONNECTICUT										
NUCLEAR	12.5	9.6	3.3	--	19.1	8.9	9.6	0.8	2.1	--
FLORIDA										
COAL	3.7	4.9	8.9	4.2	4.7	16.4	12.9	14.6	24.1	17.3
GEORGIA										
NUCLEAR	--	8.6	9.8	--	--	--	--	--	--	--
COAL	12.4	10.5	22.3	23.3	36.3	19.5	16.1	27.2	10.9	--
ILLINOIS										
NUCLEAR	7.3	15.1	15.7	14.2	5.2	4.9	2.7	--	--	--
COAL	9.6	12.2	9.8	14.9	11.3	7.2	17.6	26.3	17.1	11.9
INDIANA										
COAL	8.5	5.0	10.0	8.7	9.4	8.4	14.1	11.3	14.8	12.3
IOWA										
NUCLEAR	6.1	3.7	2.5	--	--	--	--	--	--	--
COAL	3.9	8.8	--	--	--	--	--	--	--	--
KANSAS										
COAL	39.8	29.8	27.2	40.2	--	--	--	--	--	--
KENTUCKY										
COAL	12.2	13.3	10.6	9.2	8.2	13.7	10.4	12.1	12.8	17.0
MAINE										
NUCLEAR	--	2.6	3.7	0.7	0.5	--	--	--	--	--
MARYLAND										
NUCLEAR	1.6	5.2	--	--	--	--	--	--	--	--
MASSACHUSETTS										
NUCLEAR	3.0	48.1	18.3	9.4	--	--	--	--	--	--
MICHIGAN										
NUCLEAR	26.4	54.9	94.3	31.8	12.5	5.8	--	--	--	--
COAL	13.1	9.4	12.4	12.7	13.9	13.4	12.8	10.8	6.3	5.9
MINNESOTA										
NUCLEAR	31.5	6.0	3.9	0.5	2.5	--	--	--	--	--
COAL	11.5	--	--	5.8	9.4	10.4	11.6	6.4	--	--

Table C-9 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
MISSISSIPPI COAL	29.9	12.3	9.9	--	--	--	--	--	--	--
MISSOURI COAL	17.5	21.6	11.0	11.0	11.5	19.7	22.2	17.3	17.4	11.7
NEBRASKA NUCLEAR	8.6	3.5	7.7	2.1	--	--	--	--	--	--
NEVADA COAL	37.3	23.4	16.8	26.0	10.1	12.8	--	--	--	--
NEW JERSEY NUCLEAR COAL	7.4 60.4	1.4 23.8	4.9 25.3	14.4 96.6	16.3 19.8	11.4 15.5	1.8 17.0	6.8 11.2	-- 14.5	-- --
NEW MEXICO COAL	12.4	15.1	11.3	19.5	27.2	22.1	20.4	23.3	--	--
NEW YORK NUCLEAR	6.4	4.8	6.3	9.6	19.9	3.0	18.6	2.5	--	--
NORTH CAROLINA NUCLEAR COAL	30.2 8.0	13.9 5.0	-- 7.0	-- 4.6	-- 5.3	-- 7.0	-- 6.8	-- 8.6	-- 7.3	-- 5.2
OHIO COAL	11.2	17.3	15.8	17.5	19.2	14.1	15.7	25.4	13.8	--
OREGON NUCLEAR	11.0	--	--	--	--	--	--	--	--	--
PENNSYLVANIA NUCLEAR COAL	13.0 15.2	11.5 16.1	19.4 19.6	-- 13.9	-- 16.5	-- 13.8	-- 18.0	-- 15.7	-- 17.2	-- 13.5
SOUTH CAROLINA NUCLEAR	24.1	17.2	15.1	11.5	14.0	2.7	14.2	--	--	--
TENNESSEE COAL	11.5	15.4	7.1	4.5	2.4	7.0	4.8	2.7	11.4	13.2
VERMONT NUCLEAR	--	3.6	4.4	3.5	--	--	--	--	--	--
VIRGINIA NUCLEAR COAL	30.6 35.3	28.1 10.0	10.0 5.7	27.8 12.2	25.1 8.2	-- 10.5	-- 19.5	-- 35.5	-- --	-- --
WASHINGTON COAL	13.0	19.9	11.3	9.3	15.2	10.7	--	--	--	--
WEST VIRGINIA COAL	26.3	8.6	11.3	9.5	7.2	11.9	9.1	12.9	11.3	10.0
WISCONSIN NUCLEAR COAL	5.5 0.4	2.8 4.4	7.7 --	2.8 --	8.2 --	0.1 --	3.1 --	-- --	-- --	-- --
WYOMING COAL	1.7	9.1	5.7	--	--	--	--	--	--	--

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Appendix D
UTILITY-BY-STATE DATA

TABLE D-1: LIFETIME PERFORMANCE FACTORS(BY STATE & UTILITY)

STATE	NUCLEAR				COAL			
	A.F.	C.F.	E.A.	F.O.R.	A.F.	C.F.	E.A.	F.O.R.
ALABAMA								
ALABAMA POWER COMPANY	--	--	--	--	75.7	58.0	67.7	13.9
SOUTHERN ELECTRIC GENERATING CO	--	--	--	--	60.2	52.8	57.5	21.0
TENNESSEE VALLEY AUTHORITY	32.4	15.3	31.9	69.1	--	--	--	--
ARKANSAS								
ARKANSAS POWER & LIGHT COMPANY	66.9	59.4	66.8	14.1	--	--	--	--
CALIFORNIA								
SACRAMENTO MUNICIPAL UTILITY DIST	27.8	27.2	--	71.1	--	--	--	--
SOUTHERN CALIFORNIA EDISON CO	79.7	72.8	79.0	--	--	--	--	--
CONNECTICUT								
NORTHEAST UTILITIES SERVICE CO	85.2	70.9	68.9	8.3	--	--	--	--
FLORIDA								
FLORIDA POWER & LIGHT COMPANY	49.3	65.3	44.9	--	--	--	--	--
SOUTHERN SERVICES, INCORPORATED	--	--	--	--	--	--	--	--
TAMPA ELECTRIC COMPANY	--	--	--	--	75.9	63.8	73.9	4.8
GEORGIA								
GEORGIA POWER CO.	83.8	59.9	--	9.0	72.8	56.3	67.3	17.7
ILLINOIS								
CENTRAL ILLINOIS PUBLIC SERVICE	--	--	--	--	69.6	56.2	68.9	17.7
COMMONWEALTH EDISON COMPANY	69.0	53.2	60.9	18.6	65.6	51.6	56.3	15.0
ILLINOIS POWER COMPANY	--	--	--	--	77.8	67.9	76.2	9.2
INDIANA								
AMERICAN ELEC POWER SER CORP	--	--	--	--	73.8	67.6	--	15.6
INDIANAPOLIS POWER & LIGHT CO	--	--	--	--	83.7	68.8	81.3	3.3
NORTHERN INDIANA PUBLIC SERVICE	--	--	--	--	71.9	56.3	72.2	8.4
PUBLIC SERVICE CO OF INDIANA	--	--	--	--	79.3	61.7	76.2	3.9
IOWA								
IOWA ELECTRIC LIGHT & POWER CO	78.3	55.8	68.1	4.9	--	--	--	--
IOWA PUBLIC SERVICE COMPANY	--	--	--	--	92.1	70.9	62.1	3.9
KANSAS								
KANSAS CITY POWER & LIGHT CO	--	--	--	--	57.7	33.7	57.7	32.3
KENTUCKY								
AMERICAN ELECTRIC POWER SER CORP	--	--	--	--	78.7	63.7	70.8	15.9
KENTUCKY UTILITIES CO	--	--	--	--	81.4	52.7	78.4	2.3
TENNESSEE VALLEY AUTHORITY	--	--	--	--	67.4	59.9	56.5	15.0
MAINE								
YANKEE ATOMIC ELECTRIC CO	83.5	70.2	--	3.4	--	--	--	--
MARYLAND								
BALTIMORE GAS & ELECTRIC CO	95.0	92.8	90.7	1.6	--	--	--	--
MASSACHUSETTS								
BOSTON EDISON CO	65.2	49.0	50.1	19.7	--	--	--	--

Table D-1 (continued)

STATE	NUCLEAR				COAL			
	A.F.	C.F.	E.A.	F.O.R.	A.F.	C.F.	E.A.	F.O.R.
MICHIGAN								
CONSUMERS POWER CO	47.6	34.3	36.8	38.7	--	--	--	--
DETROIT EDISON CO	--	--	--	--	76.8	64.6	67.4	13.0
MINNESOTA								
NORTHERN STATES POWER CO	77.8	66.4	74.2	12.4	--	--	--	--
MISSISSIPPI								
SOUTHERN SERVICES, INCORPORATED	--	--	--	--	57.6	53.9	53.0	17.4
MISSOURI								
KANSAS CITY POWER & LIGHT CO	--	--	--	--	80.2	44.7	--	10.4
UNION ELECTRIC CO	--	--	--	--	71.7	55.3	64.4	15.8
NEBRASKA								
NEBRASKA PUBLIC POWER DISTRICT	80.4	57.3	72.6	9.1	--	--	--	--
OMAHA PUBLIC POWER DISTRICT	76.5	56.7	74.8	6.4	--	--	--	--
NEVADA								
SOUTHERN CALIFORNIA EDISON CO	--	--	--	--	71.9	54.6	65.4	21.7
NEW JERSEY								
CENTRAL JERSEY POWER & LIGHT CO	78.9	71.2	74.1	8.2	--	--	--	--
PUBLIC SERVICE ELECTRIC & GAS CO	--	--	--	--	--	--	--	--
NEW MEXICO								
ARIZONA PUBLIC SERVICE CO	--	--	--	--	71.3	61.6	61.4	18.0
NEW YORK								
CONSOLIDATED EDISON CO	67.1	46.6	65.1	7.5	--	--	--	--
NIAGARA MOHAWK POWER CORP	71.3	61.1	--	8.6	--	--	--	--
ROCHESTER G&E	77.4	67.3	--	12.0	--	--	--	--
NO. CAROLINA								
CAROLINA POWER & LIGHT CO	56.0	36.4	53.6	30.2	85.6	67.4	80.5	6.5
DUKE POWER CO	--	--	--	--	80.5	68.7	77.6	5.5
OHIO								
AMERICAN ELECTRIC POWER SER CORP	--	--	--	--	83.4	65.0	78.5	10.6
CINCINNATI GAS & ELECTRIC CO	--	--	--	--	67.9	54.3	67.9	16.5
CLEVELAND ELECTRIC ILLUMINATING	--	--	--	--	77.4	63.0	72.3	6.9
COLUMBUS & SOUTHERN OHIO ELEC CO	--	--	--	--	60.8	50.7	51.2	21.0
DAYTON POWER & LIGHT CO	--	--	--	--	78.3	64.4	75.7	12.2
PENNSYLVANIA								
ALLEGHENY POWER SERVICE CORP	--	--	--	--	75.8	63.7	71.4	13.3
DUQUESNE LIGHT CO	--	--	--	--	80.1	66.4	67.9	5.5
METROPOLITAN EDISON CO	73.8	73.3	71.5	10.9	--	--	--	--
PENNSYLVANIA ELECTRIC CO	--	--	--	--	65.0	58.1	58.6	22.6
PENNSYLVANIA POWER & LIGHT CO	--	--	--	--	81.1	68.6	74.1	8.4
PHILADELPHIA ELECTRIC CO	76.8	62.5	61.3	13.0	--	--	--	--
SO. CAROLINA								
CAROLINA POWER & LIGHT CO	76.7	71.1	75.6	12.6	--	--	--	--
DUKE POWER CO	68.5	64.0	65.8	19.2	--	--	--	--

Table D-1 (continued)

STATE	NUCLEAR				COAL			
	A.F.	C.F.	E.A.	F.O.R.	A.F.	C.F.	E.A.	F.O.R.
TENNESSEE								
TENNESSEE VALLEY AUTHORITY	--	--	--	--	74.6	57.7	68.2	18.9
VERMONT								
YANKEE ATOMIC ELECTRIC CO	75.3	65.3	--	--	--	--	--	--
VIRGINIA								
VIRGINIA ELECTRIC & POWER CO	62.5	58.4	50.4	22.7	--	--	--	--
WASHINGTON								
PACIFIC POWER & LIGHT CO	--	--	--	--	57.3	46.0	56.3	15.1
W. VIRGINIA								
ALLEGHENY POWER SERVICE CORP	--	--	--	--	85.1	72.9	82.3	7.1
AMERICAN ELECTRIC POWER SER CORP	--	--	--	--	80.5	63.8	75.3	12.2
VIRGINIA ELECTRIC & POWER CO	--	--	--	--	58.1	48.8	40.7	31.1
WISCONSIN								
WISCONSIN ELECTRIC POWER CO	85.4	71.5	84.8	4.0	--	--	--	--
WISCONSIN POWER & LIGHT COMPANY	--	--	--	--	84.7	61.3	75.0	0.4
WISCONSIN PUBLIC SERVICE CORP	83.5	72.8	80.5	7.4	--	--	--	--
WYOMING								
PACIFIC POWER & LIGHT	--	--	--	--	81.3	51.8	76.4	2.3

TABLE D-2: AVAILABILITY FACTORS FOR CALENDAR YEARS (BY STATE & UTILITY)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
ALABAMA POWER COMPANY										
COAL	--	--	66.1	90.6	64.7	72.9	80.6	82.6	69.5	52.8
SOUTHERN ELECTRIC GENERATING CO										
COAL	--	--	--	--	--	--	--	69.3	51.0	79.6
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	--	--	--	--	--	--	60.1	20.1	27.9	88.3
COAL	75.3	78.3	79.4	79.5	43.4	74.2	63.3	56.5	63.1	70.5
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	--	--	--	--	--	--	--	77.1	56.6	76.4
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	--	--	--	--	--	--	--	28.1	77.1
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	41.7	77.1	84.9	93.4	96.2	62.1	86.1	87.4	70.2	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	76.8	86.3	77.7	--	--	--	91.2	80.9	82.8	77.7
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	--	--	63.3	69.9	81.2	76.5	79.0	72.1	61.1	71.9
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	--	--	--	--	--	--	--	83.1	66.2
COAL	--	--	--	--	74.8	72.4	66.9	69.8	61.7	68.9
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	--	--	--	--	--	64.4	74.9	78.6	60.6	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	--	--	--	65.0	43.3	95.0	65.9	58.6	72.8	81.1
COAL	67.4	64.3	71.4	74.8	68.1	71.2	67.6	58.7	49.2	71.0
ILLINOIS POWER COMPANY										
COAL	--	--	--	71.0	77.6	82.2	86.6	73.9	78.4	64.4
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	72.2	79.7	65.4	70.4	47.4	79.2	80.1	70.7	73.2	--
INDIANAPOLIS POWER & LIGHT CO										
COAL	--	--	82.1	92.6	87.1	76.7	81.6	77.5	90.0	87.4
NORTHERN INDIANA PUBLIC SERVICE										
COAL	--	--	70.3	59.9	60.0	84.6	63.8	73.1	79.5	67.3
PUBLIC SERVICE CO OF INDIANA										
COAL	--	--	--	71.0	72.7	82.1	85.5	87.0	70.3	--

Table D-2 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
IOWA										
IOWA ELECTRIC LIGHT & POWER CO										
NUCLEAR	--	--	--	--	--	--	--	79.5	77.0	78.9
IOWA PUBLIC SERVICE COMPANY										
COAL	--	--	--	--	--	--	--	--	92.1	73.6
KANSAS										
KANSAS CITY POWER & LIGHT CO										
COAL	--	--	--	--	--	--	48.3	59.1	65.8	49.4
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP										
COAL	--	--	66.6	81.7	87.2	65.3	90.8	69.8	89.4	80.7
KENTUCKY UTILITIES CO										
COAL	--	--	--	--	58.6	90.6	89.0	85.4	68.1	66.8
TENNESSEE VALLEY AUTHORITY										
COAL	83.1	73.6	75.3	73.2	76.8	74.1	50.1	70.2	67.1	58.7
MAINE										
YANKEE ATOMIC ELECTRIC CO										
NUCLEAR	--	--	--	--	--	--	68.7	79.9	96.0	82.2
MARYLAND										
BALTIMORE GAS & ELECTRIC CO										
NUCLEAR	--	--	--	--	--	--	--	--	95.0	71.8
MASSACHUSETTS										
BOSTON EDISON CO										
NUCLEAR	--	--	--	--	--	86.6	39.2	74.3	60.8	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP										
NUCLEAR	--	--	--	--	--	--	--	--	54.8	--
CONSUMERS POWER CO										
NUCLEAR	--	--	--	--	--	12.9	5.5	64.5	55.2	91.4
DETROIT EDISON CO										
COAL	93.8	92.4	83.2	87.8	79.7	79.4	79.6	76.0	72.0	79.0
MINNESOTA										
NORTHERN STATES POWER CO										
NUCLEAR	--	--	--	--	--	95.5	61.8	80.3	81.6	87.2
COAL	--	68.0	--	--	86.7	67.8	82.0	78.0	79.9	67.4
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED										
COAL	--	--	--	--	--	--	49.4	74.3	28.0	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO										
COAL	--	--	--	84.6	89.3	79.0	86.9	81.4	77.9	80.7
UNION ELECTRIC CO										
COAL	--	--	79.7	76.3	49.2	68.4	64.7	76.9	73.4	75.4
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	--	85.2	75.5	86.2
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	92.6	67.4	69.5	79.5

Table D-2 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
NEVADA										
SOUTHERN CALIFORNIA EDISON CO COAL	--	--	--	48.9	70.4	70.0	77.0	69.6	77.4	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO NUCLEAR	--	--	77.0	96.5	82.4	73.2	70.4	73.3	79.3	71.5
PUBLIC SERVICE ELECTRIC & GAS CO COAL	--	38.9	71.8	65.9	1.0	75.7	64.1	53.5	77.0	59.9
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO COAL	--	--	69.3	71.6	81.6	80.5	72.3	56.0	67.8	67.9
NEW YORK										
CONSOLIDATED EDISON CO NUCLEAR	--	--	--	--	--	--	89.4	77.0	34.8	75.7
NIAGARA MOHAWK POWER CORP NUCLEAR	--	--	--	68.9	--	--	70.5	73.4	90.9	62.5
POWER AUTHORITY OF STATE OF NY NUCLEAR	--	--	--	--	--	--	--	--	--	71.6
ROCHESTER G&E NUCLEAR	--	--	--	88.3	--	95.0	62.4	77.7	49.5	85.5
NO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	--	--	--	--	--	--	--	--	56.0	55.7
COAL	89.7	81.2	86.4	86.4	85.2	84.1	83.5	87.4	84.7	83.0
DUKE POWER CO COAL	--	--	64.2	80.2	83.5	88.0	86.4	78.2	85.2	73.4
OHIO										
AMERICAN ELECTRIC POWER SER CORP COAL	87.9	74.3	81.5	78.7	81.5	88.0	74.3	75.9	76.8	--
CINCINNATI GAS & ELECTRIC CO COAL	--	--	--	85.6	79.0	51.8	41.8	72.1	74.2	73.0
CLEVELAND ELECTRIC ILLUMINATING COAL	--	--	--	90.8	77.7	79.8	69.8	78.1	73.9	--
COLUMBUS & SOUTHERN OHIO ELEC CO COAL	--	--	--	--	--	--	87.8	72.4	22.2	70.1
DAYTON POWER & LIGHT CO COAL	--	--	--	71.9	79.3	80.7	77.2	75.3	77.1	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP COAL	--	--	77.4	73.0	69.8	83.3	80.9	80.1	69.9	66.0
DUQUESNE LIGHT CO COAL	--	--	--	55.8	86.8	99.6	80.0	81.1	75.3	81.9
METROPOLITAN EDISON CO NUCLEAR	--	--	--	--	--	--	--	--	--	76.9
PENNSYLVANIA ELECTRIC CO COAL	61.4	68.2	57.2	65.9	67.8	75.9	59.2	68.6	65.6	62.2
PENNSYLVANIA POWER & LIGHT CO COAL	91.2	84.3	69.5	83.4	85.6	85.9	82.9	83.7	84.6	85.2
PHILADELPHIA ELECTRIC CO NUCLEAR	--	--	--	--	--	--	--	82.2	65.4	80.9

Table D-2 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	80.6	77.5	58.7
SO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	--	--	--	56.9	88.4	75.2	82.4	72.7	84.7	85.2
DUKE POWER CO NUCLEAR	--	--	--	--	--	--	60.1	75.5	63.0	65.9
TENNESSEE										
TENNESSEE VALLEY AUTHORITY COAL	76.1	73.5	76.9	85.2	33.9	94.2	92.0	72.0	86.7	66.6
VERMONT										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	--	--	--	--	--	74.1	87.8	78.0	85.1
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO NUCLEAR	--	--	--	--	--	--	50.6	79.7	30.3	72.3
COAL	--	--	63.5	77.5	72.2	74.7	87.0	55.3	71.9	21.7
WASHINGTON										
PACIFIC POWER & LIGHT CO COAL	--	--	--	--	52.4	73.4	8.3	71.5	70.5	79.7
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP COAL	--	95.4	83.5	85.3	85.3	74.8	77.5	89.4	81.0	84.5
AMERICAN ELECTRIC POWER SER CORP COAL	84.2	75.2	79.7	89.3	78.3	84.5	81.5	77.2	78.2	51.1
VIRGINIA ELECTRIC & POWER CO COAL	--	74.1	84.6	86.4	77.5	68.1	57.0	58.0	66.1	67.4
WISCONSIN										
WISCONSIN ELECTRIC POWER CO NUCLEAR	--	--	--	98.8	72.3	85.9	80.2	83.1	86.7	87.0
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	79.4	83.4
WISCONSIN PUBLIC SERVICE CORP NUCLEAR	--	--	--	--	--	--	--	88.1	78.9	79.8
WYOMING										
PACIFIC POWER & LIGHT COAL	--	--	--	--	--	--	--	75.0	86.2	83.4

TABLE D-3: CAPACITY FACTORS FOR CALENDAR YEARS (BY STATE & UTILITY)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
ALABAMA POWER COMPANY										
COAL	--	--	55.4	56.1	51.9	63.2	57.7	58.1	53.9	46.3
SOUTHERN ELECTRIC GENERATING CO										
COAL	--	--	--	--	--	--	--	53.8	51.8	63.7
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	--	--	--	--	--	--	29.1	10.3	15.4	60.3
COAL	64.5	65.5	64.9	63.3	34.3	61.4	43.6	37.8	47.1	46.1
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	--	--	--	--	--	--	--	66.4	52.5	69.1
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	--	--	--	--	--	--	--	28.1	75.7
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	34.3	69.8	81.3	92.1	78.5	62.8	84.0	86.5	66.0	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	72.1	71.9	69.6	--	--	--	88.4	76.2	70.9	73.8
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	--	--	46.0	46.7	61.4	57.4	63.2	61.0	48.1	62.9
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	--	--	--	--	--	--	--	63.0	61.2
COAL	--	--	--	--	50.2	51.2	50.2	50.7	49.4	53.8
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	--	--	--	--	--	48.6	55.8	65.1	55.2	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	--	--	--	39.6	47.4	67.0	50.2	48.0	57.6	59.8
COAL	52.5	50.8	55.5	53.4	49.3	50.5	51.0	43.2	39.2	48.5
ILLINOIS POWER COMPANY										
COAL	--	--	--	64.4	71.7	70.7	73.0	61.1	65.4	58.4
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	67.7	80.7	64.3	49.8	40.3	78.1	61.2	58.3	66.6	--
INDIANAPOLIS POWER & LIGHT CO										
COAL	--	--	72.0	79.2	73.2	69.4	68.6	63.3	71.3	64.7
NORTHERN INDIANA PUBLIC SERVICE										
COAL	--	--	55.6	48.0	50.1	57.9	42.2	52.6	59.1	46.9
PUBLIC SERVICE CO OF INDIANA										
COAL	--	--	--	50.3	60.4	67.7	71.3	64.3	52.7	--

Table D-3 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
IOWA										
IOWA ELECTRIC LIGHT & POWER CO NUCLEAR	--	--	--	--	--	--	--	52.2	59.3	65.6
IOWA PUBLIC SERVICE COMPANY COAL	--	--	--	--	--	--	--	--	70.9	54.8
KANSAS										
KANSAS CITY POWER & LIGHT CO COAL	--	--	--	--	--	--	23.3	35.3	42.4	31.1
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP COAL	--	--	53.9	69.3	73.9	53.0	69.1	52.6	73.9	73.1
KENTUCKY UTILITIES CO COAL	--	--	--	--	42.7	66.7	57.6	57.8	45.6	53.8
TENNESSEE VALLEY AUTHORITY COAL	81.3	79.4	64.6	66.8	73.3	70.8	61.3	47.9	63.2	48.3
MAINE										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	--	--	--	--	--	62.7	71.4	88.8	77.2
MARYLAND										
BALTIMORE GAS & ELECTRIC CO NUCLEAR	--	--	--	--	--	--	--	--	92.8	69.8
MASSACHUSETTS										
BOSTON EDISON CO NUCLEAR	--	--	--	--	--	72.2	34.9	46.0	42.8	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP NUCLEAR	--	--	--	--	--	--	--	--	76.7	--
CONSUMERS POWER CO NUCLEAR	--	--	--	--	37.0	41.0	1.5	44.0	47.8	80.1
DETROIT EDISON CO COAL	75.0	83.0	74.9	80.3	69.5	72.5	66.5	64.3	56.9	62.8
MINNESOTA										
NORTHERN STATES POWER CO NUCLEAR	--	--	--	--	--	67.2	47.7	73.4	71.1	85.8
COAL	--	58.6	--	--	69.8	58.2	63.0	63.3	65.7	0.2
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED COAL	--	--	--	--	--	--	49.3	53.8	58.5	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO COAL	--	--	--	48.9	51.2	44.0	48.1	43.8	37.8	43.8
UNION ELECTRIC CO COAL	--	--	64.1	55.6	32.6	52.9	48.6	61.2	59.0	58.9
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT NUCLEAR	--	--	--	--	--	--	--	59.7	54.9	67.2
OMAHA PUBLIC POWER DISTRICT NUCLEAR	--	--	--	--	--	--	61.0	52.5	56.7	74.8

Table D-3 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
NEVADA										
SOUTHERN CALIFORNIA EDISON CO COAL	--	--	--	22.5	51.0	53.7	60.9	59.0	62.4	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO NUCLEAR	--	--	73.2	78.2	81.3	67.9	66.8	57.6	73.1	59.2
PUBLIC SERVICE ELECTRIC & GAS CO COAL	--	27.0	53.1	46.9	1.7	61.1	43.5	28.9	58.5	44.7
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO COAL	--	--	40.3	64.0	73.2	71.4	63.2	49.1	59.8	61.5
NEW YORK										
CONSOLIDATED EDISON CO NUCLEAR	--	--	--	--	--	--	44.7	64.9	30.3	69.1
NIAGARA MOHAWK POWER CORP NUCLEAR	--	--	--	56.8	--	--	63.3	58.9	79.2	57.0
POWER AUTHORITY OF STATE OF NY NUCLEAR	--	--	--	--	--	--	--	--	--	65.1
ROCHESTER G&E NUCLEAR	--	--	63.2	75.4	--	94.2	54.0	76.6	49.8	74.6
NO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	--	--	--	--	--	--	--	--	36.4	35.7
COAL	74.2	68.1	69.3	71.4	68.4	69.6	59.6	70.6	65.1	55.7
DUKE POWER CO COAL	--	--	62.4	74.8	77.1	76.1	76.7	61.1	68.5	65.1
OHIO										
AMERICAN ELECTRIC POWER SER CORP COAL	84.1	74.1	72.8	67.9	72.2	73.3	58.9	56.0	62.9	--
CINCINNATI GAS & ELECTRIC CO COAL	--	--	--	69.5	59.9	38.8	29.3	46.7	55.5	29.5
CLEVELAND ELECTRIC ILLUMINATING COAL	--	--	--	84.4	69.9	68.6	35.2	63.9	62.6	--
COLUMBUS & SOUTHERN OHIO ELEC CO COAL	--	--	--	--	--	--	62.9	54.3	35.0	59.1
DAYTON POWER & LIGHT CO COAL	--	--	--	61.3	68.8	74.3	56.8	57.9	64.4	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP COAL	--	--	70.4	62.1	65.3	67.9	47.9	65.2	70.2	59.2
DUQUESNE LIGHT CO COAL	--	--	--	61.9	67.9	70.3	65.9	71.4	61.2	64.0
METROPOLITAN EDISON CO NUCLEAR	--	--	--	--	--	--	--	--	--	70.3
PENNSYLVANIA ELECTRIC CO COAL	53.2	61.5	50.5	58.5	60.7	66.7	50.5	59.4	56.3	53.1
PENNSYLVANIA POWER & LIGHT CO COAL	87.0	77.7	58.1	69.2	66.7	73.8	71.3	72.3	75.8	78.1
PHILADELPHIA ELECTRIC CO NUCLEAR	--	--	--	--	--	--	--	82.0	64.6	79.1

Table D-3 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	59.2	69.2	50.5
SO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	--	--	--	41.6	82.1	65.0	82.6	71.7	83.4	73.1
DUKE POWER CO NUCLEAR	--	--	--	--	--	--	55.4	70.4	59.6	60.8
TENNESSEE										
TENNESSEE VALLEY AUTHORITY COAL	68.3	68.5	67.5	73.2	69.1	73.1	83.6	62.3	79.5	53.5
VERMONT										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	--	--	--	--	--	59.8	85.1	72.6	78.4
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO NUCLEAR	--	--	--	--	--	--	45.5	68.4	58.9	71.2
COAL	--	--	42.3	58.8	60.0	59.6	67.0	36.0	43.2	29.3
WASHINGTON										
PACIFIC POWER & LIGHT CO COAL	--	--	--	--	31.6	45.3	37.3	54.2	53.9	73.1
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP COAL	--	84.9	80.2	75.0	79.2	65.0	67.9	71.3	72.2	71.8
AMERICAN ELECTRIC POWER SER CORP COAL	79.7	75.6	72.3	78.6	72.3	81.3	64.2	58.0	62.7	43.2
VIRGINIA ELECTRIC & POWER CO COAL	--	68.8	62.2	71.2	65.6	54.0	42.4	45.1	55.9	52.5
WISCONSIN										
WISCONSIN ELECTRIC POWER CO NUCLEAR	--	--	--	39.7	35.5	72.3	76.1	78.9	82.6	84.4
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	61.3	62.2
WISCONSIN PUBLIC SERVICE CORP NUCLEAR	--	--	--	--	--	--	--	67.1	78.4	78.6
WYOMING										
PACIFIC POWER & LIGHT COAL	--	--	--	--	--	--	--	44.7	48.3	72.6

TABLE D-4: EQUIVALENT AVAILABILITY FOR CALENDAR YEARS (BY STATE & UTILITY)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
ALABAMA POWER COMPANY										
COAL	--	--	65.2	87.6	59.6	57.7	73.7	27.4	57.8	41.3
SOUTHERN ELECTRIC GENERATING CO										
COAL	--	--	--	--	--	--	--	67.7	47.3	73.4
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	--	--	--	--	--	--	20.8	20.0	27.6	74.9
COAL	73.0	76.6	71.0	73.1	42.1	69.4	51.7	47.7	50.8	53.8
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	--	--	--	--	--	--	--	77.0	56.6	76.3
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	--	--	--	--	--	--	--	28.1	76.1
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	39.2	75.7	40.2	85.9	80.2	39.8	84.3	31.7	68.4	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	73.3	84.0	69.5	--	--	--	89.3	38.1	72.3	6.8
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	--	--	62.5	52.8	56.2	69.6	76.6	40.6	56.8	69.6
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	--	--	--	--	--	--	--	74.6	64.2
COAL	--	--	--	--	66.4	53.7	50.6	55.1	56.2	53.6
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	--	--	--	--	--	64.4	72.2	78.6	60.6	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	--	--	--	35.0	32.1	92.3	58.6	48.7	60.8	66.9
COAL	59.3	53.9	59.2	60.1	54.4	59.1	45.5	50.9	41.3	40.8
ILLINOIS POWER COMPANY										
COAL	--	--	--	70.8	77.2	79.6	84.7	72.6	76.7	62.2
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	68.2	75.1	31.7	66.6	45.0	77.7	71.4	67.6	68.2	--
INDIANAPOLIS POWER & LIGHT CO										
COAL	--	--	79.1	85.6	83.5	64.8	76.2	56.2	84.7	78.8
NORTHERN INDIANA PUBLIC SERVICE										
COAL	--	--	70.3	59.9	60.0	84.6	63.8	73.1	74.4	34.7
PUBLIC SERVICE CO OF INDIANA										
COAL	--	--	--	71.0	72.7	82.1	85.5	87.0	67.2	--

Table D-4 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
IOWA										
IOWA ELECTRIC LIGHT & POWER CO NUCLEAR	--	--	--	--	--	--	--	62.0	74.2	75.4
IOWA PUBLIC SERVICE COMPANY COAL	--	--	--	--	--	--	--	--	58.2	65.1
KANSAS										
KANSAS CITY POWER & LIGHT CO COAL	--	--	--	--	--	--	48.3	59.1	65.8	49.4
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP COAL	--	--	42.7	75.4	81.2	62.7	84.3	58.4	77.7	74.7
KENTUCKY UTILITIES CO COAL	--	--	--	--	58.6	90.6	85.8	84.4	68.1	66.8
TENNESSEE VALLEY AUTHORITY COAL	80.7	56.9	35.3	28.7	59.6	45.7	41.7	54.6	47.3	47.4
MAINE										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	--	--	--	--	--	55.1	66.8	92.9	79.8
MARYLAND										
BALTIMORE GAS & ELECTRIC CO NUCLEAR	--	--	--	--	--	--	--	--	90.6	69.7
MASSACHUSETTS										
BOSTON EDISON CO NUCLEAR	--	--	--	--	--	71.7	37.4	49.6	41.7	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP NUCLEAR	--	--	--	--	--	--	--	--	51.5	--
CONSUMERS POWER CO NUCLEAR	--	--	--	--	81.3	11.2	1.9	41.2	48.4	86.6
DETROIT EDISON CO COAL	93.8	92.1	79.8	85.6	74.9	73.6	70.2	65.2	60.8	69.3
MINNESOTA										
NORTHERN STATES POWER CO NUCLEAR	--	--	--	--	--	95.5	39.9	79.7	80.9	87.2
COAL	--	66.0	--	--	86.4	67.6	79.8	78.0	79.7	61.3
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED COAL	--	--	--	--	--	--	48.0	67.5	22.3	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO COAL	--	--	--	84.6	89.3	77.9	86.9	81.4	77.9	80.7
UNION ELECTRIC CO COAL	--	--	66.9	63.9	40.0	60.6	55.3	66.2	63.6	50.7
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT NUCLEAR	--	--	--	--	--	--	--	71.9	73.3	86.2
OMAHA PUBLIC POWER DISTRICT NUCLEAR	--	--	--	--	--	--	92.6	67.4	64.3	79.5

Table D-4 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
NEVADA										
SOUTHERN CALIFORNIA EDISON CO										
COAL	--	--	--	1.5	68.1	56.5	69.4	59.1	68.2	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO										
NUCLEAR	--	--	77.0	96.3	82.2	67.2	66.1	59.2	70.7	60.4
PUBLIC SERVICE ELECTRIC & GAS CO										
COAL	--	37.4	62.9	63.7	1.0	67.3	55.3	37.9	72.7	52.9
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO										
COAL	--	--	54.3	54.3	71.4	72.1	62.8	47.6	61.6	62.7
NEW YORK										
CONSOLIDATED EDISON CO										
NUCLEAR	--	--	--	--	--	--	89.4	73.3	32.6	72.6
NIAGARA MOHAWK POWER CORP										
NUCLEAR	--	--	--	67.8	--	--	70.5	73.0	90.9	54.8
POWER AUTHORITY OF STATE OF NY										
NUCLEAR	--	--	--	--	--	--	--	--	--	69.9
ROCHESTER G&E										
NUCLEAR	--	--	--	88.3	--	95.0	62.4	77.7	48.3	85.5
NO. CAROLINA										
CAROLINA POWER & LIGHT CO										
NUCLEAR	--	--	--	--	--	--	--	--	53.6	55.1
COAL	89.2	79.8	83.7	85.8	83.6	82.5	78.0	80.5	78.9	76.6
DUKE POWER CO										
COAL	--	--	56.5	75.9	75.3	86.9	85.9	76.5	82.4	65.9
OHIO										
AMERICAN ELECTRIC POWER SER CORP										
COAL	85.4	68.4	75.1	74.1	78.6	83.7	63.4	65.6	68.5	--
CINCINNATI GAS & ELECTRIC CO										
COAL	--	--	--	84.9	77.5	51.2	41.6	65.4	72.9	71.9
CLEVELAND ELECTRIC ILLUMINATING										
COAL	--	--	--	88.9	72.8	72.2	61.0	70.6	67.1	--
COLUMBUS & SOUTHERN OHIO ELEC CO										
COAL	--	--	--	--	--	--	72.4	60.7	18.8	63.6
DAYTON POWER & LIGHT CO										
COAL	--	--	--	68.9	77.0	79.5	76.2	74.4	70.9	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP										
COAL	--	--	75.7	67.2	67.9	78.0	76.5	73.6	65.0	52.3
DUQUESNE LIGHT CO										
COAL	--	--	--	55.8	80.8	66.8	60.7	54.9	69.9	75.0
METROPOLITAN EDISON CO										
NUCLEAR	--	--	--	--	--	--	--	--	--	73.9
PENNSYLVANIA ELECTRIC CO										
COAL	50.3	55.5	52.3	62.6	60.0	68.4	52.3	59.9	58.2	56.0
PENNSYLVANIA POWER & LIGHT CO										
COAL	90.5	82.3	68.1	78.7	80.8	80.7	73.4	78.0	78.6	79.2
PHILADELPHIA ELECTRIC CO										
NUCLEAR	--	--	--	--	--	--	--	79.8	63.2	79.4

Table D-4 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	55.5	69.2	56.6
SO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	--	--	--	56.9	87.7	74.1	64.7	70.9	83.1	84.6
DUKE POWER CO NUCLEAR	--	--	--	--	--	--	58.3	72.0	61.0	55.8
TENNESSEE										
TENNESSEE VALLEY AUTHORITY COAL	71.3	71.9	74.4	49.3	32.9	94.0	91.8	70.4	85.9	61.7
VERMONT										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	--	--	--	--	--	62.1	81.9	78.0	81.6
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO NUCLEAR	--	--	--	--	--	--	50.6	79.7	30.3	72.3
COAL	--	--	61.0	69.8	68.9	66.8	59.2	48.8	59.3	7.7
WASHINGTON										
PACIFIC POWER & LIGHT CO COAL	--	--	--	--	52.4	73.4	8.3	71.5	65.9	73.8
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP COAL	--	95.4	83.5	85.3	85.3	72.9	74.4	84.9	77.5	79.2
AMERICAN ELECTRIC POWER SER CORP COAL	80.2	73.1	76.4	87.4	77.3	83.3	72.2	66.7	70.0	43.4
VIRGINIA ELECTRIC & POWER CO COAL	--	69.9	80.1	83.4	49.3	65.1	53.7	57.3	61.3	62.4
WISCONSIN										
WISCONSIN ELECTRIC POWER CO NUCLEAR	--	--	--	98.8	72.3	85.9	79.0	82.9	86.4	86.8
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	70.9	83.2
WISCONSIN PUBLIC SERVICE CORP NUCLEAR	--	--	--	--	--	--	--	73.9	78.7	79.7
WYOMING										
PACIFIC POWER & LIGHT COAL	--	--	--	--	--	--	--	75.0	79.6	73.0

TABLE D-5: FORCED OUTAGE RATES FOR CALENDAR YEARS (BY STATE & UTILITY)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA										
ALABAMA POWER COMPANY										
COAL	--	--	10.3	3.1	16.7	19.6	15.8	9.5	14.6	19.3
SOUTHERN ELECTRIC GENERATING CO										
COAL	--	--	--	--	--	--	--	14.3	27.7	9.9
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	--	--	--	--	--	--	22.0	87.4	67.6	11.0
COAL	11.8	8.8	8.6	15.0	49.5	14.1	26.3	38.0	34.1	27.1
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	--	--	--	--	--	--	--	6.7	21.6	5.3
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	--	--	--	--	--	--	--	69.6	1.2
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	57.8	9.9	--	2.1	1.5	23.7	7.2	0.2	2.5	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	16.7	4.1	3.3	--	--	--	8.9	9.9	6.4	12.6
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	--	--	16.8	6.2	5.6	12.9	8.2	7.5	13.7	8.6
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	--	--	--	--	--	--	--	8.6	9.8
COAL	--	--	--	--	21.6	14.4	23.2	21.5	21.2	17.1
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	--	--	--	--	--	14.9	13.6	13.7	28.6	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	--	--	--	14.2	15.3	2.9	17.7	18.9	8.3	4.3
COAL	8.9	16.9	12.6	15.5	14.7	10.3	15.8	19.4	23.7	10.2
ILLINOIS POWER COMPANY										
COAL	--	--	--	3.0	7.6	6.2	8.7	7.8	8.4	11.6
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	15.0	12.9	19.2	34.1	33.0	12.6	14.5	13.9	14.6	--
INDIANAPOLIS POWER & LIGHT CO										
COAL	--	--	2.5	4.2	4.0	7.2	6.5	3.4	3.4	3.8
NORTHERN INDIANA PUBLIC SERVICE										
COAL	--	--	5.7	34.0	21.2	7.2	0.4	3.4	10.0	18.8
PUBLIC SERVICE CO OF INDIANA										
COAL	--	--	--	1.9	4.3	1.8	3.2	8.5	5.0	--

Table D-5 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
IOWA										
IOWA ELECTRIC LIGHT & POWER CO NUCLEAR	--	--	--	--	--	--	--	6.1	3.7	2.5
IOWA PUBLIC SERVICE COMPANY COAL	--	--	--	--	--	--	--	--	3.9	8.8
KANSAS										
KANSAS CITY POWER & LIGHT CO COAL	--	--	--	--	--	--	39.8	29.8	27.2	40.2
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP COAL	--	--	25.3	10.6	12.0	34.8	9.4	11.8	7.4	6.8
KENTUCKY UTILITIES CO COAL	--	--	--	--	0.1	3.5	1.9	4.2	7.2	6.8
TENNESSEE VALLEY AUTHORITY COAL	3.9	11.1	14.2	11.6	11.2	14.4	16.5	23.5	16.0	24.1
MAINE										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	--	--	--	--	--	2.6	3.7	0.7	0.5
MARYLAND										
BALTIMORE GAS & ELECTRIC CO NUCLEAR	--	--	--	--	--	--	--	--	1.6	5.2
MASSACHUSETTS										
BOSTON EDISON CO NUCLEAR	--	--	--	--	--	3.0	48.1	18.3	9.4	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP NUCLEAR	--	--	--	--	--	--	--	--	26.4	--
CONSUMERS POWER CO NUCLEAR	--	--	--	--	--	54.9	94.3	31.8	12.5	5.0
DETROIT EDISON CO COAL	4.6	1.1	4.6	3.7	12.2	5.9	14.0	14.2	16.5	14.0
MINNESOTA										
NORTHERN STATES POWER CO NUCLEAR	--	--	--	--	--	5.1	24.9	7.6	5.8	0.6
COAL	--	5.1	--	--	5.8	9.4	10.4	11.6	6.4	17.8
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED COAL	--	--	--	--	--	--	29.9	12.3	9.9	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO COAL	--	--	--	9.1	3.3	4.5	3.6	12.5	23.3	12.2
UNION ELECTRIC CO COAL	--	--	13.6	19.3	41.1	22.4	15.9	10.2	10.5	10.9
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT NUCLEAR	--	--	--	--	--	--	--	13.6	4.7	2.3
OMAHA PUBLIC POWER DISTRICT NUCLEAR	--	--	--	--	--	--	3.7	2.3	13.1	2.1

Table D-5 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
NEVADA										
SOUTHERN CALIFORNIA EDISON CO COAL	--	--	--	50.1	23.6	21.8	18.5	20.0	11.0	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO NUCLEAR	--	--	7.4	1.4	4.9	14.4	16.3	11.4	1.8	6.8
PUBLIC SERVICE ELECTRIC & GAS CO COAL	--	60.4	23.8	25.3	96.6	19.8	15.5	17.0	11.2	14.5
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO COAL	--	--	15.1	11.7	13.5	12.1	26.6	25.0	20.5	22.5
NEW YORK										
CONSOLIDATED EDISON CO NUCLEAR	--	--	--	--	--	--	7.8	8.4	6.3	14.6
NIAGARA MOHAWK POWER CORP NUCLEAR	--	--	--	1.2	--	--	4.3	2.3	2.0	0.4
POWER AUTHORITY OF STATE OF NY NUCLEAR	--	--	--	--	--	--	--	--	--	5.6
ROCHESTER G&E NUCLEAR	--	--	--	3.3	--	4.6	35.4	3.6	35.2	4.7
NO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	--	--	--	--	--	--	--	--	30.2	13.9
COAL	3.4	6.6	8.0	2.8	8.1	11.4	6.9	7.2	6.9	4.4
DUKE POWER CO COAL	--	--	17.6	5.9	3.5	2.9	1.5	2.9	6.2	12.9
OHIO										
AMERICAN ELECTRIC POWER SER CORP COAL	7.4	13.1	12.1	14.9	9.8	9.6	14.6	14.4	11.0	--
CINCINNATI GAS & ELECTRIC CO COAL	--	--	--	5.7	9.0	27.2	42.1	10.4	14.1	22.8
CLEVELAND ELECTRIC ILLUMINATING COAL	--	--	--	6.0	6.1	5.4	7.9	7.1	8.5	--
COLUMBUS & SOUTHERN OHIO ELEC CO COAL	--	--	--	--	--	--	11.6	16.9	34.4	18.0
DAYTON POWER & LIGHT CO COAL	--	--	--	15.8	10.3	13.3	14.2	10.9	14.0	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP COAL	--	--	12.9	20.1	16.2	13.6	15.7	5.9	10.0	10.1
DUQUESNE LIGHT CO COAL	--	--	--	4.5	6.3	0.4	12.5	3.7	5.7	13.5
METROPOLITAN EDISON CO NUCLEAR	--	--	--	--	--	--	--	--	--	11.0
PENNSYLVANIA ELECTRIC CO COAL	20.0	22.2	36.3	19.3	23.9	17.6	27.3	23.9	23.9	27.6
PENNSYLVANIA POWER & LIGHT CO COAL	0.6	--	10.7	4.0	8.2	4.8	9.8	5.2	5.7	6.5
PHILADELPHIA ELECTRIC CO NUCLEAR	--	--	--	--	--	--	--	11.4	10.4	3.7

Table D-5 (continued)

STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	13.8	12.6	27.3
S. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	--	--	--	47.6	4.2	5.9	10.9	14.0	2.7	14.2
DUKE POWER CO NUCLEAR	--	--	--	--	--	--	14.3	18.8	21.1	18.6
TENNESSEE										
TENNESSEE VALLEY AUTHORITY COAL	15.4	7.1	4.5	2.4	7.0	4.8	2.7	11.4	13.2	16.5
VERMONT										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	--	--	--	--	--	3.6	4.4	3.5	--
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO NUCLEAR	--	--	--	--	--	--	36.7	9.8	33.7	13.5
COAL	--	--	35.3	10.0	5.7	12.2	8.2	10.5	19.5	35.5
WASHINGTON										
PACIFIC POWER & LIGHT CO COAL	--	--	--	--	22.3	4.2	20.4	11.2	19.8	7.3
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP COAL	--	2.8	7.3	7.7	3.5	17.2	16.3	4.1	3.3	2.3
AMERICAN ELECTRIC POWER SER CORP COAL	14.1	7.0	8.9	8.6	4.1	12.2	13.2	14.3	0.6	32.6
VIRGINIA ELECTRIC & POWER CO COAL	--	15.4	3.7	4.1	10.1	19.2	33.4	18.7	27.1	18.4
WISCONSIN										
WISCONSIN ELECTRIC POWER CO NUCLEAR	--	--	--	0.5	0.5	3.9	5.1	9.5	0.3	1.6
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	0.4	4.4
WISCONSIN PUBLIC SERVICE CORP NUCLEAR	--	--	--	--	--	--	--	9.7	5.0	18.9
WYOMING										
PACIFIC POWER & LIGHT COAL	--	--	--	--	--	--	--	2.0	6.9	6.4

TABLE D-6: AVAILABILITY FACTORS BY LIFE YEARS (BY STATE & UTILITY)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
ALABAMA POWER COMPANY										
COAL	65.2	82.5	81.6	78.8	59.3	71.4	63.1	--	--	--
SOUTHERN ELECTRIC GENERATING CO										
COAL	69.3	51.0	79.6	--	--	--	--	--	--	--
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	57.2	25.3	53.3	92.3	--	--	--	--	--	--
COAL	71.7	83.1	77.0	76.4	79.8	84.1	88.3	71.1	71.9	62.1
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	77.1	56.6	76.4	--	--	--	--	--	--	--
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	28.1	77.1	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	41.7	77.1	84.9	93.4	96.2	62.1	86.1	87.4	70.2	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	83.3	76.0	77.7	--	75.6	76.1	90.4	86.1	82.5	--
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	82.2	66.6	73.9	77.1	84.4	62.8	63.7	76.8	52.4	69.5
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	83.1	66.2	--	--	--	--	--	--	--
COAL	85.5	73.9	67.6	58.9	57.8	68.0	62.4	53.0	84.0	--
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	64.4	74.9	78.6	60.6	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	79.2	71.0	66.2	66.8	76.4	82.8	71.9	--	--	--
COAL	63.1	66.9	71.0	72.8	72.0	75.1	60.6	56.5	51.8	80.0
ILLINOIS POWER COMPANY										
COAL	78.8	75.0	83.9	73.8	76.3	71.9	55.0	--	--	--
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	72.6	86.0	64.6	--	87.4	73.1	79.4	67.8	73.7	78.4
INDIANAPOLIS POWER & LIGHT CO										
COAL	81.4	89.7	89.1	81.6	82.5	68.3	88.8	88.4	--	--
NORTHERN INDIANA PUBLIC SERVICE										
COAL	70.2	73.2	70.7	60.0	84.6	63.8	73.0	83.0	53.1	--
PUBLIC SERVICE CO OF INDIANA										
COAL	77.5	80.9	85.3	68.9	87.6	73.6	--	--	--	--

Table D-6 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
IOWA										
IOWA ELECTRIC LIGHT & POWER CO NUCLEAR	79.5	77.0	78.9	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY COAL	92.1	73.6	--	--	--	--	--	--	--	--
KANSAS										
KANSAS CITY POWER & LIGHT CO COAL	48.3	59.1	65.8	49.4	--	--	--	--	--	--
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP COAL	66.6	81.7	87.2	65.3	90.8	69.8	89.4	80.7	--	--
KENTUCKY UTILITIES CO COAL	72.2	81.9	92.2	86.4	68.1	58.5	--	--	--	--
TENNESSEE VALLEY AUTHORITY COAL	69.5	72.3	77.3	78.7	70.7	70.8	75.5	67.6	75.9	72.2
MAINE										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	68.7	79.9	96.0	82.2	--	--	--	--	--
MARYLAND										
BALTIMORE GAS & ELECTRIC CO NUCLEAR	95.0	71.8	--	--	--	--	--	--	--	--
MASSACHUSETTS										
BOSTON EDISON CO NUCLEAR	86.6	39.2	74.3	60.8	--	--	--	--	--	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP NUCLEAR	54.8	--	--	--	--	--	--	--	--	--
CONSUMERS POWER CO NUCLEAR	--	12.9	5.5	64.5	55.2	91.4	--	--	--	--
DETROIT EDISON CO COAL	81.0	79.8	71.8	79.7	78.7	78.9	80.8	85.0	88.8	78.3
MINNESOTA										
NORTHERN STATES POWER CO NUCLEAR	65.5	85.9	80.5	78.7	91.5	--	--	--	--	--
COAL	67.7	--	--	86.7	67.8	82.0	78.0	79.9	--	--
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED COAL	49.4	74.3	28.0	--	--	--	--	--	--	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO COAL	--	84.6	89.3	79.0	86.9	81.4	77.9	80.7	--	--
UNION ELECTRIC CO COAL	75.9	64.0	82.1	71.9	68.9	63.1	58.5	64.6	72.2	75.9
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT NUCLEAR	85.2	75.5	86.2	--	--	--	--	--	--	--
OMAHA PUBLIC POWER DISTRICT NUCLEAR	92.6	67.4	69.5	79.5	--	--	--	--	--	--

Table D-6 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
NEVADA										
SOUTHERN CALIFORNIA EDISON CO										
COAL	60.9	64.7	80.9	63.4	82.7	72.8	--	--	--	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO										
NUCLEAR	77.0	96.5	82.4	73.2	70.4	73.3	79.3	71.5	--	--
PUBLIC SERVICE ELECTRIC & GAS CO										
COAL	38.9	71.8	65.9	1.0	75.7	64.1	53.5	77.0	59.9	--
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO										
COAL	69.5	77.6	81.6	76.1	60.5	61.8	76.4	57.8	--	--
NEW YORK										
CONSOLIDATED EDISON CO										
NUCLEAR	89.4	77.0	34.8	75.7	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORP										
NUCLEAR	--	68.9	--	--	70.5	73.4	90.9	62.5	--	--
POWER AUTHORITY OF STATE OF NY										
NUCLEAR	74.9	68.4	--	--	--	--	--	--	--	--
ROCHESTER G&E										
NUCLEAR	--	88.3	--	95.0	62.4	77.7	49.5	85.5	--	--
NO. CAROLINA										
CAROLINA POWER & LIGHT CO										
NUCLEAR	56.0	55.7	--	--	--	--	--	--	--	--
COAL	84.0	84.4	84.9	91.6	84.3	81.3	88.6	83.9	76.6	91.3
DUKE POWER CO										
COAL	69.9	82.9	82.8	89.1	80.8	76.6	86.6	83.0	--	--
OHIO										
AMERICAN ELECTRIC POWER SER CORP										
COAL	86.5	78.2	84.6	78.9	82.1	84.5	75.4	69.5	74.8	--
CINCINNATI GAS & ELECTRIC CO										
COAL	67.9	82.8	79.0	51.8	41.8	72.1	80.5	66.1	--	--
CLEVELAND ELECTRIC ILLUMINATING										
COAL	86.4	65.4	83.8	86.8	66.3	60.5	--	--	--	--
COLUMBUS & SOUTHERN OHIO ELEC CO										
COAL	85.6	72.4	22.2	56.9	--	--	--	--	--	--
DAYTON POWER & LIGHT CO										
COAL	78.0	80.9	72.8	85.2	71.1	62.2	--	--	--	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP										
COAL	76.3	72.1	73.7	82.7	69.5	82.8	82.2	37.6	--	--
DUQUESNE LIGHT CO										
COAL	55.8	86.8	99.6	80.0	81.1	75.3	81.9	--	--	--
METROPOLITAN EDISON CO										
NUCLEAR	76.9	--	--	--	--	--	--	--	--	--
PENNSYLVANIA ELECTRIC CO										
COAL	69.2	60.5	68.5	68.1	64.6	64.0	61.3	72.5	62.7	63.2
PENNSYLVANIA POWER & LIGHT CO										
COAL	75.5	82.8	82.6	85.5	81.9	84.3	85.0	85.4	94.4	83.6
PHILADELPHIA ELECTRIC CO										
NUCLEAR	82.2	65.4	80.9	--	--	--	--	--	--	--

Table D-6 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	80.6	77.5	58.7	--	--	--	--	--	--	--
SO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	56.9	88.4	75.2	82.4	72.7	84.7	85.2	--	--	--
DUKE POWER CO NUCLEAR	70.1	69.3	64.3	62.3	--	--	--	--	--	--
TENNESSEE										
TENNESSEE VALLEY AUTHORITY COAL	88.0	76.1	73.5	76.9	85.2	33.9	94.2	92.0	72.0	86.7
VERMONT										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	74.1	87.8	78.0	85.1	--	--	--	--	--
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO NUCLEAR	57.2	61.8	63.8	44.3	68.5	--	--	--	--	--
COAL	63.5	77.5	72.2	74.7	87.0	55.3	71.9	21.7	--	--
WASHINGTON										
PACIFIC POWER & LIGHT CO COAL	61.1	44.7	39.2	69.7	73.6	82.9	--	--	--	--
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP COAL	84.3	90.1	85.8	85.8	80.4	59.4	86.7	80.4	81.7	90.4
AMERICAN ELECTRIC POWER SER CORP COAL	--	88.6	83.1	82.1	78.7	83.1	80.2	84.2	75.2	79.7
VIRGINIA ELECTRIC & POWER CO COAL	38.2	76.6	56.8	79.6	82.1	87.3	74.1	66.9	63.3	64.4
WISCONSIN										
WISCONSIN ELECTRIC POWER CO NUCLEAR	96.2	75.7	86.1	86.1	78.9	82.7	88.3	--	--	--
WISCONSIN POWER & LIGHT COMPANY COAL	79.4	83.4	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORP NUCLEAR	88.1	78.9	79.8	--	--	--	--	--	--	--
WYOMING										
PACIFIC POWER & LIGHT COAL	78.3	88.1	81.6	--	--	--	--	--	--	--

TABLE D-7: CAPACITY FACTORS BY LIFE YEARS (BY STATE & UTILITY)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
ALABAMA POWER COMPANY										
COAL	53.8	61.3	64.1	62.0	40.4	55.0	51.8	--	--	--
SOUTHERN ELECTRIC GENERATING CO										
COAL	53.8	51.8	63.7	--	--	--	--	--	--	--
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	32.6	15.7	40.3	51.6	--	--	--	--	--	--
COAL	71.7	83.1	76.8	68.4	73.8	76.6	78.2	56.7	56.4	49.5
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	66.4	52.5	69.1	--	--	--	--	--	--	--
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	28.1	75.7	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	34.3	69.8	81.3	92.1	78.5	62.8	84.0	86.5	66.0	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	68.9	67.3	69.6	--	68.6	66.2	86.7	83.8	80.7	--
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	63.4	58.6	58.1	61.8	67.6	47.3	50.9	53.2	36.3	57.8
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	63.0	61.2	--	--	--	--	--	--	--
COAL	54.9	60.5	51.9	46.9	39.2	52.2	49.3	37.7	61.5	--
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	48.6	55.8	65.1	55.2	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	55.6	56.5	54.2	50.1	54.3	68.9	51.5	--	--	--
COAL	55.4	57.2	60.0	60.9	55.8	57.1	46.0	45.5	35.9	55.0
ILLINOIS POWER COMPANY										
COAL	67.6	65.1	72.5	65.1	61.4	59.6	52.4	--	--	--
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	70.1	83.0	62.4	--	86.2	71.5	60.0	64.1	73.8	66.3
INDIANAPOLIS POWER & LIGHT CO										
COAL	69.4	74.9	71.6	65.0	70.2	55.9	72.6	68.8	--	--
NORTHERN INDIANA PUBLIC SERVICE										
COAL	45.2	59.0	58.4	50.1	57.9	42.2	53.0	55.8	33.5	--
PUBLIC SERVICE CO OF INDIANA										
COAL	61.0	67.1	68.1	52.7	56.7	59.9	--	--	--	--

Table D-7 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
IOWA										
IOWA ELECTRIC LIGHT & POWER CO NUCLEAR	52.2	59.3	65.6	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY COAL	70.9	54.8	--	--	--	--	--	--	--	--
KANSAS										
KANSAS CITY POWER & LIGHT CO COAL	23.3	35.3	42.4	31.1	--	--	--	--	--	--
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP COAL	53.9	69.3	73.9	53.0	69.1	52.6	73.9	73.1	--	--
KENTUCKY UTILITIES CO COAL	53.2	62.8	51.6	57.3	45.6	49.6	--	--	--	--
TENNESSEE VALLEY AUTHORITY COAL	50.4	68.5	75.0	73.0	74.0	68.9	70.0	59.4	72.6	74.2
MAINE										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	62.7	71.4	88.8	77.2	--	--	--	--	--
MARYLAND										
BALTIMORE GAS & ELECTRIC CO NUCLEAR	92.8	69.8	--	--	--	--	--	--	--	--
MASSACHUSETTS										
BOSTON EDISON CO NUCLEAR	72.2	34.9	46.0	42.8	--	--	--	--	--	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP NUCLEAR	76.7	--	--	--	--	--	--	--	--	--
CONSUMERS POWER CO NUCLEAR	37.0	41.0	1.5	44.0	47.8	80.1	--	--	--	--
DETROIT EDISON CO COAL	67.1	68.4	58.5	66.8	69.3	64.3	67.7	74.4	77.9	70.4
MINNESOTA										
NORTHERN STATES POWER CO NUCLEAR	54.8	70.9	73.3	71.6	81.9	--	--	--	--	--
COAL	29.4	--	--	69.8	58.2	63.0	63.3	65.7	--	--
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED COAL	49.3	53.8	58.5	--	--	--	--	--	--	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO COAL	--	48.9	51.2	44.0	48.1	43.8	37.8	43.8	--	--
UNION ELECTRIC CO COAL	57.9	49.7	62.6	55.4	50.5	49.2	46.9	52.2	60.9	53.2
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT NUCLEAR	59.7	54.9	67.2	--	--	--	--	--	--	--
OMAHA PUBLIC POWER DISTRICT NUCLEAR	61.0	52.5	56.7	74.8	--	--	--	--	--	--

Table D-7 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
NEVADA										
SOUTHERN CALIFORNIA EDISON CO										
COAL	37.4	49.1	61.9	54.8	68.1	53.9	--	--	--	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO										
NUCLEAR	73.2	78.2	81.3	67.9	66.8	57.6	73.1	59.2	--	--
PUBLIC SERVICE ELECTRIC & GAS CO										
COAL	27.0	53.1	46.9	1.7	61.1	43.5	28.9	58.5	44.7	--
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO										
COAL	49.8	69.7	74.4	66.8	54.5	52.4	68.2	52.8	--	--
NEW YORK										
CONSOLIDATED EDISON CO										
NUCLEAR	44.7	64.9	30.3	69.1	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORP										
NUCLEAR	--	56.8	--	--	63.3	58.9	79.2	57.0	--	--
POWER AUTHORITY OF STATE OF NY										
NUCLEAR	72.1	58.1	--	--	--	--	--	--	--	--
ROCHESTER G&E										
NUCLEAR	63.2	75.4	--	94.2	54.0	76.6	49.8	74.6	--	--
NO. CAROLINA										
CAROLINA POWER & LIGHT CO										
NUCLEAR	36.4	35.7	--	--	--	--	--	--	--	--
COAL	70.8	73.3	67.0	70.9	69.1	61.0	69.9	63.9	56.4	74.1
DUKE POWER CO										
COAL	64.3	69.9	78.1	77.7	64.8	67.2	63.3	62.3	--	--
OHIO										
AMERICAN ELECTRIC POWER SER CORP										
COAL	74.6	74.0	76.6	66.5	72.0	69.9	57.4	54.5	58.3	--
CINCINNATI GAS & ELECTRIC CO										
COAL	54.3	40.7	59.9	38.8	29.3	46.7	56.7	47.2	--	--
CLEVELAND ELECTRIC ILLUMINATING										
COAL	78.1	66.7	69.4	39.6	54.4	52.8	--	--	--	--
COLUMBUS & SOUTHERN OHIO ELEC CO										
COAL	63.4	54.3	35.0	54.2	--	--	--	--	--	--
DAYTON POWER & LIGHT CO										
COAL	67.6	68.3	60.2	64.5	53.3	57.1	--	--	--	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP										
COAL	70.6	61.9	61.1	62.1	53.4	70.0	67.5	49.2	--	--
DUQUESNE LIGHT CO										
COAL	61.9	67.9	70.3	65.9	71.4	61.2	64.0	--	--	--
METROPOLITAN EDISON CO										
NUCLEAR	70.3	--	--	--	--	--	--	--	--	--
PENNSYLVANIA ELECTRIC CO										
COAL	62.0	54.3	58.1	57.2	57.0	54.8	52.5	63.6	57.2	57.9
PENNSYLVANIA POWER & LIGHT CO										
COAL	62.8	72.9	72.5	76.0	72.6	72.9	71.6	77.8	84.1	71.6
PHILADELPHIA ELECTRIC CO										
NUCLEAR	82.0	64.6	79.1	--	--	--	--	--	--	--

Table D-7 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY										
NUCLEAR	59.2	69.2	50.5	--	--	--	--	--	--	--
SO. CAROLINA										
CAROLINA POWER & LIGHT CO										
NUCLEAR	41.6	82.1	65.0	82.6	71.7	83.4	73.1	--	--	--
DUKE POWER CO										
NUCLEAR	64.5	65.5	60.7	55.6	--	--	--	--	--	--
TENNESSEE										
TENNESSEE VALLEY AUTHORITY										
COAL	87.0	68.3	68.5	67.5	73.2	69.1	73.1	83.6	62.3	79.5
VERMONT										
YANKEE ATOMIC ELECTRIC CO										
NUCLEAR	--	59.8	85.1	72.6	78.4	--	--	--	--	--
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO										
NUCLEAR	50.7	50.0	72.0	62.6	68.0	--	--	--	--	--
COAL	42.3	58.8	60.0	59.6	67.0	36.0	43.2	29.3	--	--
WASHINGTON										
PACIFIC POWER & LIGHT CO										
COAL	35.8	44.0	46.7	54.4	60.9	75.8	--	--	--	--
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP										
COAL	70.9	76.7	76.8	73.9	73.8	53.3	75.9	71.7	67.4	77.6
AMERICAN ELECTRIC POWER SER CORP										
COAL	--	72.5	61.6	62.9	63.5	70.9	77.0	79.7	75.6	72.3
VIRGINIA ELECTRIC & POWER CO										
COAL	40.2	69.2	50.2	65.7	64.6	72.4	61.5	47.4	44.2	55.9
WISCONSIN										
WISCONSIN ELECTRIC POWER CO										
NUCLEAR	57.6	56.0	78.8	81.2	76.4	78.4	85.0	--	--	--
WISCONSIN POWER & LIGHT COMPANY										
COAL	61.3	62.2	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORP										
NUCLEAR	67.1	78.4	78.6	--	--	--	--	--	--	--
WYOMING										
PACIFIC POWER & LIGHT										
COAL	47.9	56.9	70.4	--	--	--	--	--	--	--

TABLE D-8: EQUIVALENT AVAILABILITY BY LIFE YEARS (BY STATE & UTILITY)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
ALABAMA POWER COMPANY										
COAL	62.0	71.9	53.2	44.0	42.2	63.9	57.2	--	--	--
SOUTHERN ELECTRIC GENERATING CO										
COAL	67.7	47.3	73.4	--	--	--	--	--	--	--
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	41.3	25.3	49.5	67.4	--	--	--	--	--	--
COAL	69.7	81.2	76.3	74.9	79.3	76.0	86.0	68.4	64.6	56.9
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	77.0	56.6	76.3	--	--	--	--	--	--	--
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	28.1	76.1	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	39.2	75.7	40.2	85.9	80.2	39.8	84.3	31.7	68.4	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	71.1	43.4	69.5	--	68.9	66.4	50.1	7.4	81.6	--
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	64.3	47.8	72.5	74.9	63.9	55.3	62.0	10.6	43.7	67.3
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	74.6	64.2	--	--	--	--	--	--	--
COAL	72.9	56.0	52.9	47.0	53.1	52.0	55.4	43.6	68.5	--
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	64.4	72.2	78.6	60.6	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	69.4	66.4	58.1	52.9	61.9	72.6	54.4	--	--	--
COAL	54.7	60.3	59.0	63.7	62.9	64.7	42.6	47.2	40.5	34.5
ILLINOIS POWER COMPANY										
COAL	77.6	73.6	82.6	72.1	74.7	69.2	52.0	--	--	--
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	71.9	85.5	61.9	--	82.6	45.7	73.7	64.4	71.9	65.4
INDIANAPOLIS POWER & LIGHT CO										
COAL	79.2	84.5	83.9	70.5	73.1	29.1	85.1	81.3	--	--
NORTHERN INDIANA PUBLIC SERVICE										
COAL	38.8	70.8	62.7	60.0	84.6	63.8	73.0	77.6	34.1	--
PUBLIC SERVICE CO OF INDIANA										
COAL	74.4	80.9	85.3	68.9	87.6	73.6	--	--	--	--

Table D-8 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
IOWA										
IOWA ELECTRIC LIGHT & POWER CO NUCLEAR	62.0	74.2	75.4	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY COAL	58.2	65.1	--	--	--	--	--	--	--	--
KANSAS										
KANSAS CITY POWER & LIGHT CO COAL	48.3	59.1	65.8	49.4	--	--	--	--	--	--
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP COAL	42.7	75.4	81.2	62.7	84.3	58.4	77.7	74.7	--	--
KENTUCKY UTILITIES CO COAL	68.9	80.9	92.2	86.4	68.1	58.5	--	--	--	--
TENNESSEE VALLEY AUTHORITY COAL	50.5	52.1	64.2	71.6	66.7	48.1	33.4	40.2	68.4	39.7
MAINE										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	55.1	66.8	92.9	79.8	--	--	--	--	--
MARYLAND										
BALTIMORE GAS & ELECTRIC CO NUCLEAR	90.6	69.7	--	--	--	--	--	--	--	--
MASSACHUSETTS										
BOSTON EDISON CO NUCLEAR	71.7	37.4	49.6	41.7	--	--	--	--	--	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP NUCLEAR	51.5	--	--	--	--	--	--	--	--	--
CONSUMERS POWER CO NUCLEAR	81.3	11.2	1.9	41.2	40.4	86.6	--	--	--	--
DETROIT EDISON CO COAL	73.3	70.7	62.5	71.0	72.5	68.0	74.1	82.0	83.6	75.2
MINNESOTA										
NORTHERN STATES POWER CO NUCLEAR	43.7	85.2	79.8	78.7	91.5	--	--	--	--	--
COAL	63.7	--	--	86.4	67.6	79.8	78.0	79.7	--	--
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED COAL	48.0	67.5	22.3	--	--	--	--	--	--	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO COAL	--	84.6	89.3	77.9	86.9	81.4	77.9	80.7	--	--
UNION ELECTRIC CO COAL	65.6	54.0	69.1	55.3	58.8	53.8	31.7	56.4	65.7	60.9
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT NUCLEAR	71.9	73.3	86.2	--	--	--	--	--	--	--
OMAHA PUBLIC POWER DISTRICT NUCLEAR	92.6	67.4	64.3	79.5	--	--	--	--	--	--

Table D-8 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
NEVADA										
SOUTHERN CALIFORNIA EDISON CO										
COAL	36.8	53.9	71.9	54.4	73.2	63.7	--	--	--	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO										
NUCLEAR	77.0	96.3	82.2	67.2	66.1	59.2	70.7	60.4	--	--
PUBLIC SERVICE ELECTRIC & GAS CO										
COAL	37.4	62.9	63.7	1.0	67.3	55.3	37.9	72.7	52.9	--
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO										
COAL	47.5	68.5	73.8	67.5	49.6	56.0	69.8	53.8	--	--
NEW YORK										
CONSOLIDATED EDISON CO										
NUCLEAR	89.4	73.3	32.6	72.6	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORP										
NUCLEAR	--	67.8	--	--	70.5	73.0	90.9	54.8	--	--
POWER AUTHORITY OF STATE OF NY										
NUCLEAR	73.7	66.2	--	--	--	--	--	--	--	--
ROCHESTER G&E										
NUCLEAR	--	88.3	--	95.0	62.4	77.7	48.3	85.5	--	--
NO. CAROLINA										
CAROLINA POWER & LIGHT CO										
NUCLEAR	53.6	55.1	--	--	--	--	--	--	--	--
COAL	78.2	78.1	81.0	86.0	83.0	80.3	85.1	81.1	74.4	88.9
DUKE POWER CO										
COAL	64.8	80.1	73.3	88.1	79.5	72.1	85.6	82.1	--	--
OHIO										
AMERICAN ELECTRIC POWER SER CORP										
COAL	83.8	71.7	80.2	75.3	79.2	77.6	63.5	59.4	62.5	--
CINCINNATI GAS & ELECTRIC CO										
COAL	67.9	82.4	77.5	51.2	41.6	65.4	78.0	63.8	--	--
CLEVELAND ELECTRIC ILLUMINATING										
COAL	84.0	58.0	73.9	77.7	58.7	57.7	--	--	--	--
COLUMBUS & SOUTHERN OHIO ELEC CO										
COAL	73.9	60.7	18.8	51.7	--	--	--	--	--	--
DAYTON POWER & LIGHT CO										
COAL	76.2	78.1	72.3	83.3	66.3	54.5	--	--	--	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP										
COAL	73.5	68.2	71.4	75.5	63.4	78.5	75.6	7.2	--	--
DUQUESNE LIGHT CO										
COAL	55.8	80.8	66.8	60.7	54.9	69.9	75.0	--	--	--
METROPOLITAN EDISON CO										
NUCLEAR	73.9	--	--	--	--	--	--	--	--	--
PENNSYLVANIA ELECTRIC CO										
COAL	61.5	53.4	60.0	59.7	58.8	56.4	53.4	65.8	59.4	60.7
PENNSYLVANIA POWER & LIGHT CO										
COAL	70.5	78.0	77.0	80.4	76.6	78.1	80.1	81.8	87.3	80.7
PHILADELPHIA ELECTRIC CO										
NUCLEAR	79.8	63.2	79.4	--	--	--	--	--	--	--

Table D-8 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY										
NUCLEAR	55.5	69.2	56.6	--	--	--	--	--	--	--
SO. CAROLINA										
CAROLINA POWER & LIGHT CO										
NUCLEAR	56.9	87.7	74.1	64.7	70.9	83.1	84.6	--	--	--
DUKE POWER CO										
NUCLEAR	66.8	67.0	55.9	55.9	--	--	--	--	--	--
TENNESSEE										
TENNESSEE VALLEY AUTHORITY										
COAL	87.0	71.3	71.9	74.4	49.3	32.9	94.0	91.8	70.4	85.9
VERMONT										
YANKEE ATOMIC ELECTRIC CO										
NUCLEAR	--	62.1	81.9	78.0	81.6	--	--	--	--	--
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO										
NUCLEAR	57.2	61.8	63.8	44.3	68.5	--	--	--	--	--
COAL	61.0	69.8	68.9	66.8	59.2	48.8	59.3	7.7	--	--
WASHINGTON										
PACIFIC POWER & LIGHT CO										
COAL	61.1	44.7	39.2	67.3	68.9	76.2	--	--	--	--
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP										
COAL	81.0	88.5	83.5	83.6	78.0	57.8	82.3	76.4	76.9	84.0
AMERICAN ELECTRIC POWER SER CORP										
COAL	--	83.6	73.8	69.6	67.7	80.8	78.5	80.2	73.1	76.4
VIRGINIA ELECTRIC & POWER CO										
COAL	35.8	72.0	51.1	74.5	78.3	83.0	47.2	62.6	61.1	62.4
WISCONSIN										
WISCONSIN ELECTRIC POWER CO										
NUCLEAR	96.1	74.8	86.1	85.7	70.6	82.3	88.2			--
WISCONSIN POWER & LIGHT COMPANY										
COAL	70.9	83.2	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORP										
NUCLEAR	73.9	78.7	79.7	--	--	--	--	--	--	--
WYOMING										
PACIFIC POWER & LIGHT										
COAL	74.9	80.5	70.6	--	--	--	--	--	--	--

TABLE D-9: FORCED OUTAGE RATES BY LIFE YEARS (BY STATE & UTILITY)

STATE	1	2	3	4	5	6	7	8	9	10
ALABAMA										
ALABAMA POWER COMPANY										
COAL	14.6	15.8	7.4	13.6	23.3	13.4	12.9	--	--	--
SOUTHERN ELECTRIC GENERATING CO										
COAL	14.3	27.7	9.9	--	--	--	--	--	--	--
TENNESSEE VALLEY AUTHORITY										
NUCLEAR	41.5	73.1	45.2	4.1	--	--	--	--	--	--
COAL	3.3	6.3	22.2	10.5	11.1	10.2	8.1	4.8	14.1	33.0
ARKANSAS										
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	6.7	21.6	5.3	--	--	--	--	--	--	--
CALIFORNIA										
SACRAMENTO MUNICIPAL UTILITY DIST										
NUCLEAR	--	69.6	1.2	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON CO										
NUCLEAR	57.8	9.9	--	2.1	1.5	23.7	7.2	0.2	2.5	--
CONNECTICUT										
NORTHEAST UTILITIES SERVICE CO										
NUCLEAR	12.5	9.6	3.3	--	19.1	8.9	9.6	0.8	2.1	--
FLORIDA										
TAMPA ELECTRIC COMPANY										
COAL	3.7	4.9	8.9	4.2	4.7	16.4	12.9	14.6	24.1	17.3
GEORGIA										
GEORGIA POWER CO.										
NUCLEAR	--	8.6	9.8	--	--	--	--	--	--	--
COAL	12.4	10.5	22.3	23.3	36.3	19.5	16.1	27.2	10.9	--
ILLINOIS										
CENTRAL ILLINOIS PUBLIC SERVICE										
COAL	14.9	13.6	13.7	28.6	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY										
NUCLEAR	7.3	15.1	15.7	14.2	5.2	4.9	2.7	--	--	--
COAL	8.4	16.7	10.4	16.0	11.7	7.7	17.4	26.3	17.1	11.9
ILLINOIS POWER COMPANY										
COAL	9.1	7.3	6.8	6.4	10.1	5.7	18.2	--	--	--
INDIANA										
AMERICAN ELEC POWER SER CORP										
COAL	20.2	7.6	19.1	--	8.5	15.2	22.6	16.0	13.4	12.3
INDIANAPOLIS POWER & LIGHT CO										
COAL	3.3	3.3	2.2	6.3	8.9	4.4	6.5	2.3	--	--
NORTHERN INDIANA PUBLIC SERVICE										
COAL	17.1	7.5	20.5	21.2	7.2	0.4	4.7	10.7	17.5	--
PUBLIC SERVICE CO OF INDIANA										
COAL	2.2	3.0	2.8	4.9	13.8	6.7	--	--	--	--

Table D-9 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
IOWA										
IOWA ELECTRIC LIGHT & POWER CO NUCLEAR	6.1	3.7	2.5	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY COAL	3.9	8.8	--	--	--	--	--	--	--	--
KANSAS										
KANSAS CITY POWER & LIGHT CO COAL	39.8	29.8	27.2	40.2	--	--	--	--	--	--
KENTUCKY										
AMERICAN ELECTRIC POWER SER CORP COAL	25.3	10.6	12.0	34.8	9.4	11.8	7.4	6.8	--	--
KENTUCKY UTILITIES CO COAL	1.5	5.9	0.7	1.8	7.2	10.0	--	--	--	--
TENNESSEE VALLEY AUTHORITY COAL	20.3	19.2	13.4	5.5	8.2	15.5	11.4	13.9	12.8	17.0
MAINE										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	2.6	3.7	0.7	0.5	--	--	--	--	--
MARYLAND										
BALTIMORE GAS & ELECTRIC CO NUCLEAR	1.6	5.2	--	--	--	--	--	--	--	--
MASSACHUSETTS										
BOSTON EDISON CO NUCLEAR	3.0	48.1	18.3	9.4	--	--	--	--	--	--
MICHIGAN										
AMERICAN ELECTRIC POWER SER CORP NUCLEAR	26.4	--	--	--	--	--	--	--	--	--
CONSUMERS POWER CO NUCLEAR	--	54.9	94.3	31.8	12.5	5.8	--	--	--	--
DETROIT EDISON CO COAL	13.1	9.4	12.4	12.7	13.9	13.4	12.8	10.8	6.3	5.9
MINNESOTA										
NORTHERN STATES POWER CO NUCLEAR	31.5	6.0	3.9	0.5	2.5	--	--	--	--	--
COAL	11.5	--	--	5.8	9.4	10.4	11.6	6.4	--	--
MISSISSIPPI										
SOUTHERN SERVICES, INCORPORATED COAL	29.9	12.3	9.9	--	--	--	--	--	--	--
MISSOURI										
KANSAS CITY POWER & LIGHT CO COAL	--	9.1	3.3	4.5	3.6	12.5	23.3	12.2	--	--
UNION ELECTRIC CO COAL	17.5	24.1	12.3	12.1	13.1	21.6	21.8	19.8	17.4	11.7
NEBRASKA										
NEBRASKA PUBLIC POWER DISTRICT NUCLEAR	13.6	4.7	2.3	--	--	--	--	--	--	--
OMAHA PUBLIC POWER DISTRICT NUCLEAR	3.7	2.3	13.1	2.1	--	--	--	--	--	--

Table D-9 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
NEVADA										
SOUTHERN CALIFORNIA EDISON CO										
COAL	37.3	23.4	16.8	26.0	10.1	12.8	--	--	--	--
NEW JERSEY										
CENTRAL JERSEY POWER & LIGHT CO										
NUCLEAR	7.4	1.4	4.9	14.4	16.3	11.4	1.8	6.8	--	--
PUBLIC SERVICE ELECTRIC & GAS CO										
COAL	60.4	23.8	25.3	96.6	19.8	15.5	17.0	11.2	14.5	--
NEW MEXICO										
ARIZONA PUBLIC SERVICE CO										
COAL	12.4	15.1	11.3	19.5	27.2	22.1	20.4	23.3	--	--
NEW YORK										
CONSOLIDATED EDISON CO										
NUCLEAR	7.8	8.4	6.3	14.6	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORP										
NUCLEAR	--	1.2	--	--	4.3	2.3	2.0	0.4	--	--
POWER AUTHORITY OF STATE OF NY										
NUCLEAR	4.9	6.3	--	--	--	--	--	--	--	--
ROCHESTER G&E										
NUCLEAR	--	3.3	--	4.6	35.4	3.6	35.2	4.7	--	--
NO. CAROLINA										
CAROLINA POWER & LIGHT CO										
NUCLEAR	30.2	13.9	--	--	--	--	--	--	--	--
COAL	4.9	6.2	3.2	6.1	9.6	8.1	6.3	11.0	7.3	5.2
DUKE POWER CO										
COAL	10.4	4.4	9.8	3.1	2.4	6.3	7.2	4.0	--	--
OHIO										
AMERICAN ELECTRIC POWER SER CORP										
COAL	7.4	11.8	9.4	16.4	10.2	9.8	12.9	17.6	13.8	--
CINCINNATI GAS & ELECTRIC CO										
COAL	16.5	18.8	9.0	27.2	42.1	10.4	11.8	13.7	--	--
CLEVELAND ELECTRIC ILLUMINATING										
COAL	6.2	4.8	6.8	10.0	5.0	9.3	--	--	--	--
COLUMBUS & SOUTHERN OHIO ELEC CO										
COAL	8.8	16.9	34.4	30.1	--	--	--	--	--	--
DAYTON POWER & LIGHT CO										
COAL	10.8	9.0	19.0	13.8	14.1	12.4	--	--	--	--
PENNSYLVANIA										
ALLEGHENY POWER SERVICE CORP										
COAL	13.9	15.6	26.2	8.0	6.4	9.7	12.4	3.6	--	--
DUQUESNE LIGHT CO										
COAL	4.5	6.3	0.4	12.5	3.7	5.7	13.5	--	--	--
METROPOLITAN EDISON CO										
NUCLEAR	11.0	--	--	--	--	--	--	--	--	--
PENNSYLVANIA ELECTRIC CO										
COAL	22.3	25.0	26.6	22.6	27.5	22.3	26.0	23.3	25.2	22.0
PENNSYLVANIA POWER & LIGHT CO										
COAL	8.2	5.4	9.1	5.8	8.7	3.7	6.0	6.4	1.3	4.9
PHILADELPHIA ELECTRIC CO										
NUCLEAR	11.4	10.4	3.7	--	--	--	--	--	--	--

Table D-9 (continued)

STATE	1	2	3	4	5	6	7	8	9	10
OREGON										
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	13.8	12.6	27.3	--	--	--	--	--	--	--
SO. CAROLINA										
CAROLINA POWER & LIGHT CO NUCLEAR	47.6	4.2	5.9	0.9	14.0	2.7	14.2	--	--	--
DUKE POWER CO NUCLEAR	16.3	21.5	18.1	22.0	--	--	--	--	--	--
TENNESSEE										
TENNESSEE VALLEY AUTHORITY COAL	11.5	15.4	7.1	4.5	2.4	7.0	4.8	2.7	11.4	13.2
VERMONT										
YANKEE ATOMIC ELECTRIC CO NUCLEAR	--	3.6	4.4	3.5	--	--	--	--	--	--
VIRGINIA										
VIRGINIA ELECTRIC & POWER CO NUCLEAR	30.6	28.1	10.0	27.8	25.1	--	--	--	--	--
COAL	35.3	10.0	5.7	12.2	8.2	10.5	19.5	35.5	--	--
WASHINGTON										
PACIFIC POWER & LIGHT CO COAL	13.0	19.9	11.3	9.3	15.2	10.7	--	--	--	--
W. VIRGINIA										
ALLEGHENY POWER SERVICE CORP COAL	13.9	4.3	4.1	4.6	3.0	26.4	4.3	5.1	4.4	3.1
AMERICAN ELECTRIC POWER SER CORP COAL	--	9.4	9.1	10.6	12.2	3.7	8.8	14.1	7.0	8.9
VIRGINIA ELECTRIC & POWER CO COAL	51.3	18.8	32.8	14.8	3.8	5.6	14.0	20.2	20.3	14.0
WISCONSIN										
WISCONSIN ELECTRIC POWER CO NUCLEAR	3.4	0.5	2.1	2.8	8.2	0.1	3.1	--	--	--
WISCONSIN POWER & LIGHT COMPANY COAL	0.4	4.4	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORP NUCLEAR	9.7	5.0	18.9	--	--	--	--	--	--	--
WYOMING										
PACIFIC POWER & LIGHT COAL	1.7	9.1	5.7	--	--	--	--	--	--	--

Appendix E
UTILITY DATA

TABLE E-1: AVERAGE AVAILABILITY FACTORS FOR CALENDAR YEARS (BY UTILITY)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA POWER COMPANY COAL	--	--	66.1	90.6	64.7	72.9	80.6	82.6	69.5	52.8
ALLEGHENY POWER SERVICE CORPORATION COAL	--	--	77.4	73.0	69.8	83.3	80.9	80.1	69.9	66.0
AMERICAN ELECTRIC POWER SERVICE CORP COAL	87.9	74.3	81.5	78.7	81.5	88.0	76.0	76.8	78.6	--
ARIZONA PUBLIC SERVICE COMPANY COAL	--	--	69.3	71.6	81.6	80.5	72.3	56.0	67.8	67.9
ARKANSAS POWER & LIGHT COMPANY NUCLEAR	--	--	--	--	--	--	--	77.1	56.6	76.4
BALTIMORE GAS & ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	--	95.0	71.8
BOSTON EDISON COMPANY NUCLEAR	--	--	--	--	--	86.6	39.2	74.3	60.8	--
CAROLINA POWER & LIGHT COMPANY NUCLEAR COAL	-- 89.7	-- 81.2	-- 86.4	56.9 86.4	88.4 85.2	75.2 84.1	82.4 83.5	72.7 87.4	70.4 84.7	70.4 83.0
CINCINNATI GAS & ELECTRIC COMPANY COAL	--	--	--	85.6	79.0	51.8	41.8	72.1	74.2	73.0
CENTRAL JERSEY POWER & LIGHT COMPANY NUCLEAR	--	--	77.0	96.5	82.4	73.2	70.4	73.3	79.3	71.5
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY COAL	--	--	--	--	--	64.4	74.9	78.6	60.6	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY COAL	--	--	--	90.8	77.7	79.8	69.8	78.1	73.9	--
COLUMBUS & SOUTHERN OHIO ELECTRIC CO COAL	--	--	--	--	--	--	87.8	72.4	22.2	70.1
COMMONWEALTH EDISON COMPANY NUCLEAR COAL	-- 67.4	-- 64.3	-- 71.4	65.0 74.8	43.3 68.1	95.0 71.2	65.9 67.6	58.6 58.7	72.8 49.2	81.1 71.0
CONSOLIDATED EDISON COMPANY OF NY INC NUCLEAR	--	--	--	--	--	--	89.4	77.0	34.8	75.7
CONSUMERS POWER COMPANY NUCLEAR	--	--	--	--	--	12.9	5.5	64.5	55.2	91.4
DAYTON POWER & LIGHT COMPANY COAL	--	--	--	71.9	79.3	80.7	77.2	75.3	77.1	--
DETROIT EDISON COMPANY COAL	93.8	92.4	83.2	87.8	79.7	79.4	79.6	76.0	72.0	79.0

Table E-1 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
DUKE POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	60.1	75.5	63.0	65.9
COAL	--	--	64.2	80.2	83.5	88.0	86.4	78.2	85.2	73.4
DUQUESNE LIGHT COMPANY										
COAL	--	--	--	55.8	86.8	99.6	80.0	81.1	75.3	81.9
GEORGIA POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	--	83.1	66.2
COAL	--	--	--	--	74.8	72.4	66.9	69.8	61.7	68.9
ILLINOIS POWER COMPANY										
COAL	--	--	--	71.0	77.6	82.2	86.6	73.9	78.4	64.4
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	--	--	82.1	92.6	87.1	76.7	81.6	77.5	90.0	87.4
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	79.5	77.0	78.9
IOWA PUBLIC SERVICE COMPANY										
COAL	--	--	--	--	--	--	--	--	92.1	73.6
KANSAS CITY POWER & LIGHT COMPANY										
COAL	--	--	--	84.6	89.3	79.0	67.6	70.3	71.9	65.1
KENTUCKY UTILITIES COMPANY										
COAL	--	--	--	--	58.6	90.6	89.0	85.4	68.1	66.8
METROPOLITAN EDISON COMPANY										
NUCLEAR	--	--	--	--	--	--	--	82.2	65.4	80.9
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	--	85.2	75.5	86.2
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	--	--	68.9	--	--	70.5	73.4	90.9	62.5
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	76.8	86.3	77.7	--	--	--	91.2	80.9	82.8	77.7
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	--	--	70.3	59.9	60.0	84.6	63.8	73.1	79.5	67.3
NORTHERN STATES POWER COMPANY										
NUCLEAR	--	--	--	--	--	95.5	61.8	80.3	81.6	87.2
COAL	--	68.0	--	--	86.7	67.8	82.0	78.0	79.9	67.4
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	92.6	67.4	69.5	79.5
PACIFIC POWER & LIGHT COMPANY										
COAL	--	--	--	--	52.4	73.4	8.3	72.7	79.9	81.9
PENNSYLVANIA ELECTRIC COMPANY										
COAL	61.4	68.2	57.2	65.9	67.8	75.9	59.2	68.6	65.6	62.2

Table E-1 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
PENNSYLVANIA POWER & LIGHT COMPANY COAL	91.2	84.3	69.5	83.4	85.6	85.9	82.9	83.7	84.6	85.2
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	80.6	77.5	58.7
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	--	--	76.9
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	--	--	--	--	--	--	--	--	--	71.6
PUBLIC SERVICE COMPANY OF INDIANA COAL	--	--		71.0	72.7	82.1	85.5	87.0	70.3	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	--	38.9	71.8	65.9	1.0	75.7	64.1	53.5	77.0	59.9
ROCHESTER G&E NUCLEAR	--	--	--	88.3	--	95.0	62.4	77.7	49.5	85.5
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	--	--	--	--	--	--	--	28.1	77.1
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR COAL	41.7 --	77.1 --	84.9 --	93.4 48.9	96.2 70.4	62.1 70.0	86.1 77.0	87.4 69.6	70.2 77.4	-- --
SOUTHERN ELECTRIC GENERATING COMPANY COAL	--	--	--	--	--	--	--	69.3	51.0	79.6
SOUTHERN SERVICES, INCORPORATED COAL	--	--	--	--	--	--	49.4	74.3	28.0	--
TAMPA ELECTRIC COMPANY COAL	--	--	63.3	69.9	81.2	76.5	79.0	72.1	61.1	71.9
TENNESSEE VALLEY AUTHORITY NUCLEAR COAL	-- 78.0	-- 75.9	-- 77.3	-- 77.6	-- 58.5	-- 77.0	60.1 61.8	20.1 64.6	27.9 68.4	88.3 64.9
UNION ELECTRIC COMPANY COAL	--	--	79.7	76.3	49.2	68.4	64.7	76.9	73.4	75.4
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR COAL	-- --	-- 74.1	-- 77.6	-- 83.5	-- 75.7	-- 70.3	50.6 64.5	79.7 57.3	30.3 67.5	72.3 56.0
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	--	--	--	98.8	72.3	85.9	80.2	83.1	86.7	87.0
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	79.4	83.4
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	--	--	--	--	--	--	--	88.1	78.9	79.8
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	71.4	83.9	87.0	83.7

TABLE E-2: AVERAGE CAPACITY FACTORS FOR CALENDAR YEARS (BY UTILITY)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA POWER COMPANY COAL	--	--	55.4	56.1	51.9	63.2	57.7	58.1	53.9	46.3
ALLEGHENY POWER SERVICE CORPORATION COAL	--	--	70.4	62.1	65.3	67.9	47.9	65.2	70.2	59.2
AMERICAN ELECTRIC POWER SERVICE CORP COAL	84.1	74.1	72.8	67.9	72.2	73.3	58.0	56.2	62.6	--
ARIZONA PUBLIC SERVICE COMPANY COAL	--	--	40.3	64.0	73.2	71.4	63.2	49.1	59.8	61.5
ARKANSAS POWER & LIGHT COMPANY NUCLEAR	--	--	--	--	--	--	--	66.4	52.5	69.1
BALTIMORE GAS & ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	--	92.8	69.8
BOSTON EDISON COMPANY NUCLEAR	--	--	--	--	--	72.2	34.9	46.0	42.8	--
CAROLINA POWER & LIGHT COMPANY NUCLEAR COAL	-- 74.2	-- 68.1	-- 69.3	41.6 71.4	82.1 68.4	65.0 69.6	82.6 59.6	71.7 70.6	59.9 65.1	54.4 55.7
CINCINNATI GAS & ELECTRIC COMPANY COAL	--	--	--	69.5	59.9	38.8	29.3	46.7	55.5	29.5
CENTRAL JERSEY POWER & LIGHT COMPANY NUCLEAR	--	--	73.2	78.2	81.3	67.9	66.8	57.6	73.1	59.2
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY COAL	--	--	--	--	--	48.6	55.8	65.1	55.2	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY COAL	--	--	--	84.4	69.9	68.6	35.2	63.9	62.6	--
COLUMBUS & SOUTHERN OHIO ELECTRIC CO COAL	--	--	--	--	--	--	62.9	54.3	35.0	59.1
COMMONWEALTH EDISON COMPANY NUCLEAR COAL	-- 52.5	-- 50.8	-- 55.5	39.6 53.4	47.4 49.3	67.0 50.5	50.2 51.0	48.0 43.2	57.6 39.2	59.8 48.5
CONSOLIDATED EDISON COMPANY OF NY INC NUCLEAR	--	--	--	--	--	--	44.7	64.9	30.3	69.1
CONSUMERS POWER COMPANY NUCLEAR	--	--	--	--	37.0	41.0	1.5	44.0	47.8	80.1
DAYTON POWER & LIGHT COMPANY COAL	--	--	--	61.3	68.8	74.3	56.8	57.9	64.4	--
DETROIT EDISON COMPANY COAL	75.0	83.0	74.9	80.3	69.5	72.5	66.5	64.3	56.9	62.8

Table E-2 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
DUKE POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	55.4	70.4	59.6	60.8
COAL	--	--	62.4	74.8	77.1	76.1	76.7	61.1	68.5	65.1
DUQUESNE LIGHT COMPANY										
COAL	--	--	--	61.9	67.9	70.3	65.9	71.4	61.2	64.0
GEORGIA POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	--	63.0	61.2
COAL	--	--	--	--	50.2	51.2	50.2	50.7	49.4	53.8
ILLINOIS POWER COMPANY										
COAL	--	--	--	64.4	71.7	70.7	73.0	61.1	65.4	58.4
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	--	--	72.0	79.2	73.2	69.4	68.6	63.3	71.3	64.7
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	52.2	59.3	65.6
IOWA PUBLIC SERVICE COMPANY										
COAL	--	--	--	--	--	--	--	--	70.9	54.8
KANSAS CITY POWER & LIGHT COMPANY										
COAL	--	--	--	48.9	51.2	44.0	35.7	39.6	40.1	37.5
KENTUCKY UTILITIES COMPANY										
COAL	--	--	--	--	42.7	66.7	57.6	57.8	45.6	53.8
METROPOLITAN EDISON COMPANY										
NUCLEAR	--	--	--	--	--	--	--	82.0	64.6	79.1
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	--	59.7	54.9	67.2
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	--	--	56.8	--	--	63.3	58.9	79.2	57.0
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	72.1	71.9	69.6	--	--	--	88.4	76.2	70.9	73.8
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	--	--	55.6	48.0	50.1	57.9	42.2	52.6	59.1	46.9
NORTHERN STATES POWER COMPANY										
NUCLEAR	--	--	--	--	--	67.2	47.7	73.4	71.1	85.8
COAL	--	58.6	--	--	69.8	58.2	63.0	63.3	65.7	0.2
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	61.0	52.5	56.7	74.8
PACIFIC POWER & LIGHT COMPANY										
COAL	--	--	--	--	31.6	45.3	37.3	51.0	50.5	72.8
PENNSYLVANIA ELECTRIC COMPANY										
COAL	53.2	61.5	50.5	58.5	60.7	66.7	50.5	59.4	56.3	53.1

Table E-2 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
PENNSYLVANIA POWER & LIGHT COMPANY COAL	87.0	77.7	58.1	69.2	66.7	73.8	71.3	72.3	75.8	78.1
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	59.2	69.2	50.5
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	--	--	70.3
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	--	--	--	--	--	--	--	--	--	65.1
PUBLIC SERVICE COMPANY OF INDIANA COAL	--	--	--	50.3	60.4	67.7	71.3	64.3	52.7	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	--	27.0	53.1	46.9	1.7	61.1	43.5	28.9	58.5	44.7
ROCHESTER G&E NUCLEAR	--	--	63.2	75.4	--	94.2	54.0	76.6	49.8	74.6
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	--	--	--	--	--	--	--	28.1	75.7
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR	34.3	69.8	81.3	92.1	78.5	62.8	84.0	86.5	66.0	--
COAL	--	--	--	22.5	51.0	53.7	60.9	59.0	62.4	--
SOUTHERN ELECTRIC GENERATING COMPANY COAL	--	--	--	--	--	--	--	53.8	51.8	63.7
SOUTHERN SERVICES, INCORPORATED COAL	--	--	--	--	--	--	49.3	53.8	58.5	--
TAMPA ELECTRIC COMPANY COAL	--	--	46.0	46.7	61.4	57.4	63.2	61.0	48.1	62.9
TENNESSEE VALLEY AUTHORITY NUCLEAR	--	--	--	--	--	--	29.1	10.3	15.4	60.3
COAL	70.7	70.6	65.1	66.2	59.6	67.1	56.9	45.6	57.9	48.1
UNION ELECTRIC COMPANY COAL	--	--	64.1	55.6	32.6	52.9	48.6	61.2	59.0	58.9
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR	--	--	--	--	--	--	45.5	68.4	58.9	71.2
COAL	--	68.8	55.6	67.0	63.8	55.9	48.6	42.8	52.7	46.7
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	--	--	--	39.7	35.5	72.3	76.1	78.9	82.6	84.4
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	61.3	62.2
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	--	--	--	--	--	--	--	67.1	78.4	78.6
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	61.3	78.3	80.7	77.8

TABLE E-3: AVERAGE EQUIVALENT AVAILABILITY FOR CALENDAR YEARS (BY UTILITY)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA POWER COMPANY										
COAL	--	--	65.2	87.6	59.6	57.7	73.7	27.4	57.8	41.3
ALLEGHENY POWER SERVICE CORPORATION										
COAL	--	--	75.7	67.2	67.9	78.0	76.5	73.6	65.0	52.3
AMERICAN ELECTRIC POWER SERVICE CORP										
COAL	85.4	68.4	75.1	74.1	78.6	83.7	63.8	64.5	69.9	--
ARIZONA PUBLIC SERVICE COMPANY										
COAL	--	--	54.3	54.3	71.4	72.1	62.8	47.6	61.6	62.7
ARKANSAS POWER & LIGHT COMPANY										
NUCLEAR	--	--	--	--	--	--	--	77.0	56.6	76.3
BALTIMORE GAS & ELECTRIC COMPANY										
NUCLEAR	--	--	--	--	--	--	--	--	90.6	69.7
BOSTON EDISON COMPANY										
NUCLEAR	--	--	--	--	--	71.7	37.4	49.6	41.7	--
CAROLINA POWER & LIGHT COMPANY										
NUCLEAR	--	--	--	56.9	87.7	74.1	64.7	70.9	68.4	69.9
COAL	89.2	79.8	83.7	85.8	83.6	82.5	78.0	80.5	78.9	76.6
CINCINNATI GAS & ELECTRIC COMPANY										
COAL	--	--	--	84.9	77.5	51.2	41.6	65.4	72.9	71.9
CENTRAL JERSEY POWER & LIGHT COMPANY										
NUCLEAR	--	--	77.0	96.3	82.2	67.2	66.1	59.2	70.7	60.4
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY										
COAL	--	--	--	--	--	64.4	72.2	78.6	60.6	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY										
COAL	--	--	--	80.9	72.0	72.2	61.0	70.6	67.1	--
COLUMBUS & SOUTHERN OHIO ELECTRIC CO										
COAL	--	--	--	--	--	--	72.4	60.7	18.8	63.6
COMMONWEALTH EDISON COMPANY										
NUCLEAR	--	--	--	35.0	32.1	92.3	58.6	48.7	60.8	66.9
COAL	59.3	53.9	59.2	60.1	54.4	59.1	45.5	50.9	41.3	40.8
CONSOLIDATED EDISON COMPANY OF NY INC										
NUCLEAR	--	--	--	--	--	--	89.4	73.3	32.6	72.6
CONSUMERS POWER COMPANY										
NUCLEAR	--	--	--	--	81.3	11.2	1.9	41.2	48.4	86.6
DAYTON POWER & LIGHT COMPANY										
COAL	--	--	--	68.9	77.0	79.5	76.2	74.4	70.9	--
DETROIT EDISON COMPANY										
COAL	93.8	92.1	79.8	85.6	74.9	73.6	70.2	65.2	60.8	69.3

Table E-3 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
DUKE POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	58.3	72.0	61.0	55.8
COAL	--	--	56.5	75.9	75.3	86.9	85.9	76.5	82.4	65.9
DUQUESNE LIGHT COMPANY										
COAL	--	--	--	55.8	80.8	66.8	60.7	54.9	69.9	75.0
GEORGIA POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	--	74.6	64.2
COAL	--	--	--	--	66.4	53.7	50.6	55.1	56.2	53.6
ILLINOIS POWER COMPANY										
COAL	--	--	--	70.8	77.2	79.6	84.7	72.6	76.7	62.2
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	--	--	79.1	85.6	83.5	64.8	76.2	56.2	84.7	78.8
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	62.0	74.2	75.4
IOWA PUBLIC SERVICE COMPANY										
COAL	--	--	--	--	--	--	--	--	58.2	65.1
KANSAS CITY POWER & LIGHT COMPANY										
COAL	--	--	--	84.6	89.3	77.9	67.6	70.3	71.9	65.1
KENTUCKY UTILITIES COMPANY										
COAL	--	--	--	--	58.6	90.6	85.8	84.4	68.1	66.8
METROPOLITAN EDISON COMPANY										
NUCLEAR	--	--	--	--	--	--	--	79.8	63.2	79.4
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	--	71.9	73.3	86.2
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	--	--	67.8	--	--	70.5	73.0	90.9	54.8
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	73.3	84.0	69.5	--	--	--	89.3	38.1	72.3	6.8
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	--	--	70.3	59.9	60.0	84.6	63.8	73.1	74.4	34.7
NORTHERN STATES POWER COMPANY										
NUCLEAR	--	--	--	--	--	95.5	39.9	79.7	80.9	87.2
COAL	--	66.0	--	--	86.4	67.6	79.8	78.0	79.7	61.3
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	92.6	67.4	64.3	79.5
PACIFIC POWER & LIGHT COMPANY										
COAL		52.4	73.4	8.3	72.7	74.1	73.3	50.3		
PENNSYLVANIA ELECTRIC COMPANY										
COAL	50.3	55.5	52.3	62.6	60.0	68.4	52.3	59.9	58.2	56.0

Table E-3 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
PENNSYLVANIA POWER & LIGHT COMPANY COAL	90.5	82.3	68.1	78.7	80.8	80.7	73.4	78.0	78.6	79.2
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	55.5	69.2	56.6
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	--	--	73.9
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	--	--	--	--	--	--	--	--	--	69.9
PUBLIC SERVICE COMPANY OF INDIANA COAL	--	--	--	71.0	72.7	82.1	85.5	87.0	67.2	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	--	37.4	62.9	63.7	1.0	67.3	55.3	37.9	72.7	52.9
ROCHESTER G&E NUCLEAR	--	--	--	88.3	--	95.0	62.4	77.7	48.3	85.5
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	--	--	--	--	--	--	--	28.1	76.1
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR	39.2	75.7	40.2	85.9	80.2	39.8	84.3	31.7	68.4	--
COAL	--	--	--	1.5	68.1	56.5	69.4	59.1	68.2	--
SOUTHERN ELECTRIC GENERATING COMPANY COAL	--	--	--	--	--	--	--	67.7	47.3	73.4
SOUTHERN SERVICES, INCORPORATED COAL	--	--	--	--	--	--	48.0	67.5	22.3	--
TAMPA ELECTRIC COMPANY COAL	--	--	62.5	52.8	56.2	69.6	76.6	40.6	56.8	69.6
TENNESSEE VALLEY AUTHORITY NUCLEAR	--	--	--	--	--	--	20.8	20.0	27.6	74.9
COAL	75.3	69.3	56.2	50.7	49.3	62.8	53.1	53.9	55.5	52.2
UNION ELECTRIC COMPANY COAL	--	--	66.9	63.9	40.0	60.6	55.3	66.2	63.6	50.7
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR	--	--	--	--	--	--	50.6	79.7	30.3	72.3
COAL	--	69.9	73.7	78.9	55.9	65.6	55.1	55.2	60.8	48.8
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	--	--	--	98.8	72.3	85.9	79.0	82.9	86.4	86.8
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	70.9	83.2
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	--	--	--	--	--	--	--	73.9	78.7	79.7
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	58.6	74.4	85.4	80.7

TABLE E-4: AVERAGE FORCED OUTAGE RATES FOR CALENDAR YEARS (BY UTILITY)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
ALABAMA POWER COMPANY COAL	--	--	10.3	3.1	16.7	19.6	15.8	9.5	14.6	19.3
ALLEGHENY POWER SERVICE CORPORATION COAL	--	--	12.9	20.1	16.2	13.6	15.7	5.9	10.0	10.1
AMERICAN ELECTRIC POWER SERVICE CORP COAL	7.4	13.1	12.1	14.9	9.8	9.6	15.6	14.7	10.3	--
ARIZONA PUBLIC SERVICE COMPANY COAL	--	--	15.1	11.7	13.5	12.1	26.6	25.0	20.5	22.5
ARKANSAS POWER & LIGHT COMPANY NUCLEAR	--	--	--	--	--	--	--	6.7	21.6	5.3
BALTIMORE GAS & ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	--	1.6	5.2
BOSTON EDISON COMPANY NUCLEAR	--	--	--	--	--	3.0	48.1	18.3	9.4	--
CAROLINA POWER & LIGHT COMPANY NUCLEAR	--	--	--	47.6	4.2	5.9	0.9	14.0	16.5	14.1
COAL	3.4	6.6	8.0	2.8	8.1	11.4	6.9	7.2	6.9	4.4
CINCINNATI GAS & ELECTRIC COMPANY COAL	--	--	--	5.7	9.0	27.2	42.1	10.4	14.1	22.8
CENTRAL JERSEY POWER & LIGHT COMPANY NUCLEAR	--	--	7.4	1.4	4.9	14.4	16.3	11.4	1.8	6.8
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY COAL	--	--	--	--	--	14.9	13.6	13.7	28.6	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY COAL	--	--	--	6.0	6.1	5.4	7.9	7.1	8.5	--
COLUMBUS & SOUTHERN OHIO ELECTRIC CO COAL	--	--	--	--	--	--	11.6	16.9	34.4	18.0
COMMONWEALTH EDISON COMPANY NUCLEAR	--	--	--	14.2	15.3	2.9	17.7	18.9	8.3	4.3
COAL	8.9	16.9	12.6	15.5	14.7	10.3	15.8	19.4	23.7	10.2
CONSOLIDATED EDISON COMPANY OF NY INC NUCLEAR	--	--	--	--	--	--	7.8	8.4	6.3	14.6
CONSUMERS POWER COMPANY NUCLEAR	--	--	--	--	--	54.9	94.3	31.8	12.5	5.8
DAYTON POWER & LIGHT COMPANY COAL	--	--	--	15.8	10.3	13.3	14.2	10.9	14.0	--
DETROIT EDISON COMPANY COAL	4.6	1.1	4.6	3.7	12.2	5.9	14.0	14.2	16.5	14.0

Table E-4 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
DUKE POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	14.3	18.8	21.1	18.6
COAL	--	--	17.6	5.9	3.5	2.9	1.5	2.9	6.2	12.9
DUQUESNE LIGHT COMPANY										
COAL	--	--	--	4.5	6.3	0.4	12.5	3.7	5.7	13.5
GEORGIA POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	--	8.6	9.8
COAL	--	--	--	--	21.6	14.4	23.2	21.5	21.2	17.1
ILLINOIS POWER COMPANY										
COAL	--	--	--	3.0	7.6	6.2	8.7	7.8	8.4	11.6
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	--	--	2.5	4.2	4.0	7.2	6.5	3.4	3.4	3.8
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	--	--	--	--	--	--	--	6.1	3.7	2.5
IOWA PUBLIC SERVICE COMPANY										
COAL	--	--	--	--	--	--	--	--	3.9	8.8
KANSAS CITY POWER & LIGHT COMPANY										
COAL	--	--	--	9.1	3.3	4.5	21.7	21.2	25.3	26.2
KENTUCKY UTILITIES COMPANY										
COAL	--	--	--	--	0.1	3.5	1.9	4.2	7.2	6.8
METROPOLITAN EDISON COMPANY										
NUCLEAR	--	--	--	--	--	--	--	11.4	10.4	3.7
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	--	13.6	4.7	2.3
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	--	--	1.2	--	--	4.3	2.3	2.0	0.4
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	16.7	4.1	3.3	--	--	--	8.9	9.9	6.4	12.6
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	--	--	5.7	34.0	21.2	7.2	0.4	3.4	10.0	18.8
NORTHERN STATES POWER COMPANY										
NUCLEAR	--	--	--	--	--	5.1	24.9	7.6	5.8	0.6
COAL	--	5.1	--	--	5.8	9.4	10.4	11.6	6.4	17.8
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	--	--	--	--	--	--	3.7	2.3	13.1	2.1
PACIFIC POWER & LIGHT COMPANY										
COAL	--	--	--	--	22.3	4.2	20.4	8.1	12.1	6.8
PENNSYLVANIA ELECTRIC COMPANY										
COAL	20.0	22.2	36.3	19.3	23.9	17.6	27.3	23.9	23.9	27.6

Table E-4 (continued)

UTILITY	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
PENNSYLVANIA POWER & LIGHT COMPANY COAL	0.6	--	10.7	4.0	8.2	4.8	9.8	5.2	5.7	6.5
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	13.8	12.6	27.3
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	--	--	--	11.0
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	--	--	--	--	--	--	--	--	--	5.6
PUBLIC SERVICE COMPANY OF INDIANA COAL	--	--	--	1.9	4.3	1.8	3.2	8.5	5.0	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	--	60.4	23.8	25.3	96.6	19.8	15.5	17.0	11.2	14.5
ROCHESTER G&E NUCLEAR	--	--	--	3.3	--	4.6	35.4	3.6	35.2	4.7
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	--	--	--	--	--	--	--	69.6	1.2
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR	57.8	9.9	--	2.1	1.5	23.7	7.2	0.2	2.5	--
COAL	--	--	--	50.1	23.6	21.8	18.5	20.0	11.0	--
SOUTHERN ELECTRIC GENERATING COMPANY COAL	--	--	--	--	--	--	--	14.3	27.7	9.9
SOUTHERN SERVICES, INCORPORATED COAL	--	--	--	--	--	--	29.9	12.3	9.9	--
TAMPA ELECTRIC COMPANY COAL	--	--	16.8	6.2	5.6	12.9	8.2	7.5	13.7	8.6
TENNESSEE VALLEY AUTHORITY NUCLEAR	--	--	--	--	--	--	22.0	87.4	67.6	11.0
COAL	9.8	9.3	10.4	11.7	23.3	12.9	18.8	28.0	24.5	24.3
UNION ELECTRIC COMPANY COAL	--	--	13.6	19.3	41.1	22.4	15.9	10.2	10.5	10.9
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR	--	--	--	--	--	--	36.7	9.8	33.7	13.5
COAL	--	15.4	14.2	6.1	8.7	16.9	27.1	16.7	25.2	22.7
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	--	--	--	0.5	0.5	3.9	5.1	9.5	0.3	1.6
WISCONSIN POWER & LIGHT COMPANY COAL	--	--	--	--	--	--	--	--	0.4	4.4
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	--	--	--	--	--	--	--	9.7	5.0	18.9
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	--	--	--	--	--	3.1	4.1	2.1	0.5

TABLE E-5: AVERAGE AVAILABILITY FACTORS FOR LIFE YEARS OF SERVICE (BY UTILITY)

UTILITY	1	2	3	4	5	6	7	8	9	10
ALABAMA POWER COMPANY COAL	65.2	82.5	81.6	78.8	59.3	71.4	63.1	--	--	--
ALLEGHENY POWER SERVICE CORPORATION COAL	76.3	72.1	73.7	82.1	69.5	82.8	82.2	71.6	--	--
AMERICAN ELECTRIC POWER SERVICE CORP COAL	86.5	78.2	84.4	78.0	81.0	84.2	75.4	69.5	74.8	--
ARIZONA PUBLIC SERVICE COMPANY COAL	69.5	77.6	81.6	76.1	60.5	61.8	76.4	57.8	--	--
ARKANSAS POWER & LIGHT COMPANY NUCLEAR	77.1	56.6	76.4	--	--	--	--	--	--	--
BALTIMORE GAS & ELECTRIC COMPANY NUCLEAR	95.0	71.8	--	--	--	--	--	--	--	--
BOSTON EDISON COMPANY NUCLEAR	86.6	39.2	74.3	60.8	--	--	--	--	--	--
CAROLINA POWER & LIGHT COMPANY NUCLEAR COAL	56.5 84.0	72.1 84.4	75.2 84.9	82.4 91.6	72.7 84.3	84.7 81.3	85.2 88.6	-- 83.9	-- 76.6	-- 91.3
CINCINNATI GAS & ELECTRIC COMPANY COAL	67.9	82.8	79.0	51.8	41.8	72.1	80.5	66.1	--	--
CENTRAL JERSEY POWER & LIGHT COMPANY NUCLEAR	77.0	96.5	82.4	73.2	70.4	73.3	79.3	71.5	--	--
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY COAL	64.4	74.9	70.6	60.6	--	--	--	--	--	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY COAL	86.4	65.4	83.0	86.8	66.3	60.5	--	--	--	--
COLUMBUS & SOUTHERN OHIO ELECTRIC CO COAL	85.6	72.4	22.2	56.9	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY NUCLEAR COAL	79.2 63.1	71.0 66.9	66.2 71.0	66.8 72.8	76.4 72.0	82.8 75.1	71.9 60.6	-- 56.5	-- 51.8	-- 80.0
CONSOLIDATED EDISON COMPANY OF NY INC NUCLEAR	89.4	77.0	34.8	75.7	--	--	--	--	--	--
CONSUMERS POWER COMPANY NUCLEAR	--	12.9	5.5	64.5	55.2	91.4	--	--	--	--
DAYTON POWER & LIGHT COMPANY COAL	78.0	80.9	72.8	85.2	71.1	62.2	--	--	--	--
DETROIT EDISON COMPANY COAL	81.0	79.8	71.8	79.7	78.7	78.9	80.8	85.0	88.8	78.3

Table E-5 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
DUKE POWER COMPANY										
NUCLEAR	70.1	69.3	64.3	62.3	--	--	--	--	--	--
COAL	69.9	82.9	82.8	89.1	80.8	76.6	86.6	83.0	--	--
DUQUESNE LIGHT COMPANY										
COAL	55.8	86.8	99.6	80.0	81.1	75.3	81.9	--	--	--
GEORGIA POWER COMPANY										
NUCLEAR	--	83.1	66.2	--	--	--	--	--	--	--
COAL	85.5	73.9	67.6	58.9	57.8	68.0	62.4	53.0	84.0	--
ILLINOIS POWER COMPANY										
COAL	78.8	75.0	83.9	73.8	76.3	71.9	55.0	--	--	--
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	81.4	89.7	89.1	81.6	82.5	68.3	88.8	88.4	--	--
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	79.5	77.0	78.9	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY										
COAL	92.1	73.6	--	--	--	--	--	--	--	--
KANSAS CITY POWER & LIGHT COMPANY										
COAL	48.3	71.9	77.6	64.2	86.9	81.4	77.9	80.7	--	--
KENTUCKY UTILITIES COMPANY										
COAL	72.2	81.9	92.2	86.4	68.1	58.5	--	--	--	--
METROPOLITAN EDISON COMPANY										
NUCLEAR	82.2	65.4	80.9	--	--	--	--	--	--	--
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	85.2	75.5	86.2	--	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	68.9	--	--	70.5	73.4	90.9	62.5	--	--
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	83.3	76.0	77.7	--	75.6	76.1	90.4	86.1	82.5	--
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	70.2	73.2	70.7	60.0	84.6	63.8	73.0	83.0	53.1	--
NORTHERN STATES POWER COMPANY										
NUCLEAR	65.5	85.9	80.5	78.7	91.5	--	--	--	--	--
COAL	67.7	--	--	86.7	67.8	82.0	78.0	79.9	--	--
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	92.6	67.4	69.5	79.5	--	--	--	--	--	--
PACIFIC POWER & LIGHT COMPANY										
COAL	69.7	70.7	60.3	69.7	73.6	82.9	--	--	--	--
PENNSYLVANIA ELECTRIC COMPANY										
COAL	69.2	60.5	68.5	68.1	64.6	64.0	61.3	72.5	62.7	63.2

Table E-5 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
PENNSYLVANIA POWER & LIGHT COMPANY COAL	75.5	82.8	82.6	85.5	81.9	84.3	85.0	85.4	94.4	83.6
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	80.6	77.5	58.7	--	--	--	--	--	--	--
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	76.9	--	--	--	--	--	--	--	--	--
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	74.9	68.4	--	--	--	--	--	--	--	--
PUBLIC SERVICE COMPANY OF INDIANA COAL	77.5	80.9	85.3	68.9	87.6	73.6	--	--	--	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	38.9	71.8	65.9	1.0	75.7	64.1	53.5	77.0	59.9	--
ROCHESTER G&E NUCLEAR	--	88.3	--	95.0	62.4	77.7	49.5	85.5	--	--
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	28.1	77.1	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR COAL	41.7 60.9	77.1 64.7	84.9 80.9	93.4 63.4	96.2 82.7	62.1 72.8	86.1 --	87.4 --	70.2 --	-- --
SOUTHERN ELECTRIC GENERATING COMPANY COAL	69.3	51.0	79.6	--	--	--	--	--	--	--
SOUTHERN SERVICES, INCORPORATED COAL	49.4	74.3	28.0	--	--	--	--	--	--	--
TAMPA ELECTRIC COMPANY COAL	82.2	66.6	73.9	77.1	84.4	62.8	63.7	76.8	52.4	69.5
TENNESSEE VALLEY AUTHORITY NUCLEAR COAL	57.2 76.4	25.3 75.2	53.3 76.5	92.3 77.6	-- 76.7	-- 71.2	-- 83.6	-- 72.8	-- 73.3	-- 69.6
UNION ELECTRIC COMPANY COAL	75.9	64.0	82.1	71.9	68.9	63.1	58.5	64.6	72.2	75.9
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR COAL	57.2 46.6	61.8 76.9	63.8 62.0	44.3 78.4	68.5 83.7	-- 76.6	-- 73.4	-- 51.9	-- 63.3	-- 64.4
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	96.2	75.7	86.1	86.1	78.9	82.7	88.3	--	--	--
WISCONSIN POWER & LIGHT COMPANY COAL	79.4	83.4	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	88.1	78.9	79.8	--	--	--	--	--	--	--
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	71.4	83.9	87.0	83.7	--	--	--	--	--

TABLE E-6: AVERAGE CAPACITY FACTORS FOR LIFE YEARS OF SERVICE (BY UTILITY)

UTILITY	1	2	3	4	5	6	7	8	9	10
ALABAMA POWER COMPANY COAL	53.8	61.3	64.1	62.0	40.4	55.0	51.8	--	--	--
ALLEGHENY POWER SERVICE CORPORATION COAL	70.6	61.9	61.1	62.1	53.4	70.0	67.5	49.2	--	--
AMERICAN ELECTRIC POWER SERVICE CORP COAL	74.6	74.0	72.1	62.6	66.4	68.0	57.4	54.5	58.3	--
ARIZONA PUBLIC SERVICE COMPANY COAL	49.8	69.7	74.4	66.8	54.5	52.4	68.2	52.8	--	--
ARKANSAS POWER & LIGHT COMPANY NUCLEAR	66.4	52.5	69.1	--	--	--	--	--	--	--
BALTIMORE GAS & ELECTRIC COMPANY NUCLEAR	92.8	69.8	--	--	--	--	--	--	--	--
BOSTON EDISON COMPANY NUCLEAR	72.2	34.9	46.0	42.8	--	--	--	--	--	--
CAROLINA POWER & LIGHT COMPANY NUCLEAR	39.0	58.9	65.0	82.6	71.7	83.4	73.1	--	--	--
COAL	70.8	73.3	67.0	70.9	69.1	61.0	69.9	63.9	56.4	74.1
CINCINNATI GAS & ELECTRIC COMPANY COAL	54.3	40.7	59.9	38.8	29.3	46.7	56.7	47.2	--	--
CENTRAL JERSEY POWER & LIGHT COMPANY NUCLEAR	73.2	78.2	81.3	67.9	66.8	57.6	73.1	59.2	--	--
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY COAL	48.6	55.8	65.1	55.2	--	--	--	--	--	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY COAL	78.1	66.7	69.4	39.6	54.4	52.8	--	--	--	--
COLUMBUS & SOUTHERN OHIO ELECTRIC CO COAL	63.4	54.3	35.0	54.2	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY NUCLEAR	55.6	56.5	54.2	50.1	54.3	68.9	51.5	--	--	--
COAL	55.4	57.2	60.0	60.9	55.8	57.1	46.0	45.5	35.9	55.0
CONSOLIDATED EDISON COMPANY OF NY INC NUCLEAR	44.7	64.9	30.3	69.1	--	--	--	--	--	--
CONSUMERS POWER COMPANY NUCLEAR	37.0	41.0	1.5	44.0	47.8	80.1	--	--	--	--
DAYTON POWER & LIGHT COMPANY COAL	67.6	68.3	60.2	64.5	53.3	57.1	--	--	--	--
DETROIT EDISON COMPANY COAL	67.1	68.4	58.5	66.8	69.3	64.3	67.7	74.4	77.9	70.4

Table E-6 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
DUKE POWER COMPANY										
NUCLEAR	64.5	65.5	60.7	55.6	--	--	--	--	--	--
COAL	64.3	69.9	78.1	77.7	64.8	67.2	63.3	62.3	--	--
DUQUESNE LIGHT COMPANY										
COAL	61.9	67.9	70.3	63.9	71.4	61.2	64.0	--	--	--
GEORGIA POWER COMPANY										
NUCLEAR	--	63.0	61.2	--	--	--	--	--	--	--
COAL	54.9	60.5	51.9	46.9	39.2	52.2	49.3	37.7	61.5	--
ILLINOIS POWER COMPANY										
COAL	67.6	65.1	72.5	65.1	61.4	59.6	52.4	--	--	--
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	69.4	74.9	71.6	65.0	70.2	55.9	72.6	68.8	--	--
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	52.2	59.3	65.6	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY										
COAL	70.9	54.8	--	--	--	--	--	--	--	--
KANSAS CITY POWER & LIGHT COMPANY										
COAL	23.3	42.1	46.8	37.6	48.1	43.8	37.8	43.8	--	--
KENTUCKY UTILITIES COMPANY										
COAL	53.2	62.8	51.6	57.3	45.6	49.6	--	--	--	--
METROPOLITAN EDISON COMPANY										
NUCLEAR	82.0	64.6	79.1	--	--	--	--	--	--	--
NEDRASKA PUBLIC POWER DISTRICT										
NUCLEAR	59.7	54.9	67.2	--	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	56.8	--	--	63.3	58.9	79.2	57.0	--	--
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	68.9	67.3	69.6	--	68.6	66.2	86.7	83.8	80.7	--
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	45.2	59.0	58.4	50.1	57.9	42.2	53.0	55.8	33.5	--
NORTHERN STATES POWER COMPANY										
NUCLEAR	54.8	70.9	73.3	71.6	81.9	--	--	--	--	--
COAL	29.4	--	--	69.8	58.2	63.0	63.3	65.7	--	--
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	61.0	52.5	56.7	74.8	--	--	--	--	--	--
PACIFIC POWER & LIGHT COMPANY										
COAL	41.9	51.7	58.5	54.4	60.9	75.8	--	--	--	--
PENNSYLVANIA ELECTRIC COMPANY										
COAL	62.0	54.3	58.1	57.2	57.0	54.8	52.5	63.6	57.2	57.9

Table E-6 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
PENNSYLVANIA POWER & LIGHT COMPANY COAL	62.8	72.9	72.5	76.0	72.6	72.9	71.6	77.8	84.1	71.6
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	59.2	69.2	50.5	--	--	--	--	--	--	--
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	70.3	--	--	--	--	--	--	--	--	--
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	72.1	58.1	--	--	--	--	--	--	--	--
PUBLIC SERVICE COMPANY OF INDIANA COAL	61.0	67.1	68.1	52.7	56.7	59.9	--	--	--	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	27.0	53.1	46.9	1.7	61.1	43.5	28.9	58.5	44.7	--
ROCHESTER G&E NUCLEAR	63.2	75.4	--	94.2	54.0	76.6	49.8	74.6	--	--
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	28.1	75.7	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR COAL	34.3 37.4	69.8 49.1	81.3 61.9	92.1 54.8	78.5 68.1	62.8 53.9	84.0 --	86.5 --	66.0 --	-- --
SOUTHERN ELECTRIC GENERATING COMPANY COAL	53.8	51.8	63.7	--	--	--	--	--	--	--
SOUTHERN SERVICES, INCORPORATED COAL	49.3	53.8	58.5	--	--	--	--	--	--	--
TAMPA ELECTRIC COMPANY COAL	63.4	58.6	58.1	61.8	67.6	47.3	50.9	53.2	36.3	57.8
TENNESSEE VALLEY AUTHORITY NUCLEAR COAL	32.6 69.7	15.7 71.4	40.3 74.1	51.6 70.6	-- 73.8	-- 72.2	-- 74.0	-- 62.5	-- 62.8	-- 62.7
UNION ELECTRIC COMPANY COAL	57.9	49.7	62.6	55.4	50.5	49.2	46.9	52.2	60.9	53.2
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR COAL	50.7 40.9	50.0 65.7	72.0 53.5	62.6 64.2	68.0 65.4	-- 60.3	-- 55.4	-- 41.4	-- 44.2	-- 55.9
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	57.6	56.0	78.8	81.2	76.4	78.4	85.0	--	--	--
WISCONSIN POWER & LIGHT COMPANY COAL	61.3	62.2	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	67.1	78.4	78.6	--	--	--	--	--	--	--
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	61.3	78.3	80.7	77.8	--	--	--	--	--

TABLE E-7: AVERAGE EQUIVALENT AVAILABILITY FOR LIFE YEARS OF SERVICE (BY UTILITY)

UTILITY	1	2	3	4	5	6	7	8	9	10
ALABAMA POWER COMPANY COAL	62.0	71.9	53.2	44.0	42.2	63.9	57.2	--	--	--
ALLEGHENY POWER SERVICE CORPORATION COAL	73.5	68.2	71.4	75.5	63.4	78.5	75.6	7.2		
AMERICAN ELECTRIC POWER SERVICE CORP COAL	83.8	71.7	78.4	69.4	72.6	78.1	63.5	59.4	62.5	--
ARIZONA PUBLIC SERVICE COMPANY COAL	47.5	68.5	73.8	67.5	49.6	56.0	69.8	53.8	--	--
ARKANSAS POWER & LIGHT COMPANY NUCLEAR	77.0	56.6	76.3	--	--	--	--	--	--	--
BALTIMORE GAS & ELECTRIC COMPANY NUCLEAR	90.6	69.7	--	--	--	--	--	--	--	--
BOSTON EDISON COMPANY NUCLEAR	71.7	37.4	49.6	41.7	--	--	--	--	--	--
CAROLINA POWER & LIGHT COMPANY NUCLEAR COAL	55.3 78.2	71.4 78.1	74.1 81.0	64.7 86.0	70.9 83.0	83.1 80.3	84.6 85.1	-- 81.1	-- 74.4	-- 88.9
CINCINNATI GAS & ELECTRIC COMPANY COAL	67.9	82.4	77.5	51.2	41.6	65.4	78.0	63.8	--	--
CENTRAL JERSEY POWER & LIGHT COMPANY NUCLEAR	77.0	96.3	82.2	67.2	66.1	59.2	70.7	60.4	--	--
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY COAL	64.4	72.2	78.6	60.6	--	--	--	--	--	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY COAL	84.0	58.0	73.9	77.7	58.7	57.7				
COLUMBUS & SOUTHERN OHIO ELECTRIC CO COAL	73.9	60.7	18.8	51.7	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY NUCLEAR COAL	69.4 54.7	66.4 60.3	58.1 59.0	52.9 63.7	61.9 62.9	72.6 64.7	54.4 42.6	-- 47.2	-- 40.5	-- 34.5
CONSOLIDATED EDISON COMPANY OF NY INC NUCLEAR	89.4	73.3	32.6	72.6	--	--	--	--	--	--
CONSUMERS POWER COMPANY NUCLEAR	81.3	11.2	1.9	41.2	48.4	86.6	--	--	--	--
DAYTON POWER & LIGHT COMPANY COAL	76.2	78.1	72.3	83.3	66.3	54.5	--	--	--	--
DETROIT EDISON COMPANY COAL	73.3	70.7	62.5	71.0	72.5	68.0	74.1	82.0	83.6	75.2

Table E-7 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
DUKE POWER COMPANY										
NUCLEAR	66.8	67.0	55.9	55.9	--	--	--	--	--	--
COAL	64.8	80.1	73.3	88.1	79.5	72.1	85.6	82.1	--	--
DUQUESNE LIGHT COMPANY										
COAL	55.8	80.8	66.8	60.7	54.9	69.9	75.0	--	--	--
GEORGIA POWER COMPANY										
NUCLEAR	--	74.6	64.2	--	--	--	--	--	--	--
COAL	72.9	56.0	52.9	47.0	53.1	52.0	55.4	43.6	68.5	--
ILLINOIS POWER COMPANY										
COAL	77.6	73.6	82.6	72.1	74.7	69.2	52.0	--	--	--
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	79.2	84.5	83.9	70.5	73.1	29.1	85.1	81.3	--	--
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	62.0	74.2	75.4	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY										
COAL	58.2	65.1	--	--	--	--	--	--	--	--
KANSAS CITY POWER & LIGHT COMPANY										
COAL	48.3	71.9	77.6	63.7	86.9	81.4	77.9	80.7	--	--
KENTUCKY UTILITIES COMPANY										
COAL	68.9	80.9	92.2	86.4	68.1	58.5	--	--	--	--
METROPOLITAN EDISON COMPANY										
NUCLEAR	79.8	63.2	79.4	--	--	--	--	--	--	--
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	71.9	73.3	86.2	--	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	67.8	--	--	70.5	73.0	90.9	54.8	--	--
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	71.1	43.4	69.5	--	68.9	66.4	50.1	7.4	81.6	--
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	38.8	70.8	62.7	60.0	84.6	63.8	73.0	77.6	34.1	--
NORTHERN STATES POWER COMPANY										
NUCLEAR	43.7	85.2	79.8	78.7	91.5	--	--	--	--	--
COAL	63.7	--	--	86.4	67.6	79.8	78.0	79.7	--	--
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	92.6	67.4	64.3	79.5	--	--	--	--	--	--
PACIFIC POWER & LIGHT COMPANY										
COAL	68.0	66.2	54.9	67.3	68.9	76.2	--	--	--	--
PENNSYLVANIA ELECTRIC COMPANY										
COAL	61.5	53.4	60.0	59.7	58.8	56.4	53.4	65.8	59.4	60.7

Table E-7 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
PENNSYLVANIA POWER & LIGHT COMPANY COAL	70.5	78.0	77.0	80.4	76.6	78.1	80.1	81.8	87.3	80.7
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	55.5	69.2	56.6	--	--	--	--	--	--	--
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	73.9	--	--	--	--	--	--	--	--	--
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	73.7	66.2	--	--	--	--	--	--	--	--
PUBLIC SERVICE COMPANY OF INDIANA COAL	74.4	80.9	85.3	68.9	87.6	73.6	--	--	--	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	37.4	62.9	63.7	1.0	67.3	55.3	37.9	72.7	52.9	--
ROCHESTER G&E NUCLEAR	--	88.3	--	95.0	62.4	77.7	48.3	85.5	--	--
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	28.1	76.1	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR COAL	39.2 36.8	75.7 53.9	40.2 71.9	85.9 54.4	80.2 73.2	39.8 63.7	84.3 --	31.7 --	68.4 --	-- --
SOUTHERN ELECTRIC GENERATING COMPANY COAL	67.7	47.3	73.4	--	--	--	--	--	--	--
SOUTHERN SERVICES, INCORPORATED COAL	48.0	67.5	22.3	--	--	--	--	--	--	--
TAMPA ELECTRIC COMPANY COAL	64.3	47.8	72.5	74.9	63.9	55.3	62.0	10.6	43.7	67.3
TENNESSEE VALLEY AUTHORITY NUCLEAR COAL	41.3 69.1	25.3 61.7	49.5 68.2	67.4 73.2	-- 69.6	-- 57.9	-- 64.6	-- 58.2	-- 66.8	-- 56.0
UNION ELECTRIC COMPANY COAL	65.6	54.0	69.1	55.3	58.8	53.8	31.7	56.4	65.7	60.9
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR COAL	57.2 44.2	61.8 71.3	63.8 57.0	44.3 72.6	68.5 71.9	-- 71.6	-- 51.2	-- 44.3	-- 61.1	-- 62.4
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	96.1	74.8	86.1	85.7	78.6	82.3	88.2	--	--	--
WISCONSIN POWER & LIGHT COMPANY COAL	70.9	83.2	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	73.9	78.7	79.7	--	--	--	--	--	--	--
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	58.6	74.4	85.4	80.7	--	--	--	--	--

TABLE E-8: AVERAGE FORCED OUTAGE RATES FOR LIFE YEARS OF SERVICE (BY UTILITY)

UTILITY	1	2	3	4	5	6	7	8	9	10
ALABAMA POWER COMPANY COAL	14.6	15.8	7.4	13.6	23.3	13.4	12.9	--	--	--
ALLEGHENY POWER SERVICE CORPORATION COAL	13.9	15.6	26.2	8.0	6.4	9.7	12.4	3.6	--	--
AMERICAN ELECTRIC POWER SERVICE CORP COAL	7.4	11.8	11.2	14.9	12.9	8.8	12.9	17.6	13.8	--
ARIZONA PUBLIC SERVICE COMPANY COAL	12.4	15.1	11.3	19.5	27.2	22.1	20.4	23.3	--	--
ARKANSAS POWER & LIGHT COMPANY NUCLEAR	6.7	21.6	5.3	--	--	--	--	--	--	--
BALTIMORE GAS & ELECTRIC COMPANY NUCLEAR	1.6	5.2	--	--	--	--	--	--	--	--
BOSTON EDISON COMPANY NUCLEAR	3.0	48.1	18.3	9.4	--	--	--	--	--	--
CAROLINA POWER & LIGHT COMPANY NUCLEAR COAL	38.9 4.9	9.0 6.2	5.9 3.2	0.9 6.1	14.0 9.6	2.7 8.1	14.2 6.3	-- 11.0	-- 7.3	-- 5.2
CINCINNATI GAS & ELECTRIC COMPANY COAL	16.5	18.8	9.0	27.2	42.1	10.4	11.8	13.7	--	--
CENTRAL JERSEY POWER & LIGHT COMPANY NUCLEAR	7.4	1.4	4.9	14.4	16.3	11.4	1.8	6.8	--	--
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY COAL	14.9	13.6	13.7	28.6	--	--	--	--	--	--
CLEVELAND ELECTRIC ILLUMINATING COMPANY COAL	6.2	4.8	6.8	10.0	5.0	9.3	--	--	--	--
COLUMBUS & SOUTHERN OHIO ELECTRIC CO COAL	8.8	16.9	34.4	30.1	--	--	--	--	--	--
COMMONWEALTH EDISON COMPANY NUCLEAR COAL	7.3 8.4	15.1 16.7	15.7 10.4	14.2 16.0	5.2 11.7	4.9 7.7	2.7 17.4	-- 26.3	-- 17.1	-- 11.9
CONSOLIDATED EDISON COMPANY OF NY INC NUCLEAR	7.8	8.4	6.3	14.6	--	--	--	--	--	--
CONSUMERS POWER COMPANY NUCLEAR	--	54.9	94.3	31.8	12.5	5.8	--	--	--	--
DAYTON POWER & LIGHT COMPANY COAL	10.8	9.0	19.0	13.8	14.1	12.4	--	--	--	--
DETROIT EDISON COMPANY COAL	13.1	9.4	12.4	12.7	13.9	13.4	12.8	10.8	6.3	5.9

Table E-8 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
DUKE POWER COMPANY										
NUCLEAR	16.3	21.5	18.1	22.0	--	--	--	--	--	--
COAL	10.4	4.4	9.8	3.1	2.4	6.3	7.2	4.0	--	--
DUQUESNE LIGHT COMPANY										
COAL	4.5	6.3	0.4	12.5	3.7	5.7	13.5	--	--	--
GEORGIA POWER COMPANY										
NUCLEAR	--	8.6	9.8	--	--	--	--	--	--	--
COAL	12.4	10.5	22.3	23.3	36.3	19.5	16.1	27.2	10.9	--
ILLINOIS POWER COMPANY										
COAL	9.1	7.3	6.8	6.4	10.1	5.7	18.2	--	--	--
INDIANAPOLIS POWER & LIGHT COMPANY										
COAL	3.3	3.3	2.2	6.3	8.9	4.4	6.5	2.3	--	--
IOWA ELECTRIC LIGHT & POWER COMPANY										
NUCLEAR	6.1	3.7	2.5	--	--	--	--	--	--	--
IOWA PUBLIC SERVICE COMPANY										
COAL	3.9	8.8	--	--	--	--	--	--	--	--
KANSAS CITY POWER & LIGHT COMPANY										
COAL	39.8	19.5	15.3	22.3	3.6	12.5	23.3	12.2	--	--
KENTUCKY UTILITIES COMPANY										
COAL	1.5	5.9	0.7	1.8	7.2	10.0	--	--	--	--
METROPOLITAN EDISON COMPANY										
NUCLEAR	11.4	10.4	3.7	--	--	--	--	--	--	--
NEBRASKA PUBLIC POWER DISTRICT										
NUCLEAR	13.6	4.7	2.3	--	--	--	--	--	--	--
NIAGARA MOHAWK POWER CORPORATION										
NUCLEAR	--	1.2	--	--	4.3	2.3	2.0	0.4	--	--
NORTHEAST UTILITIES SERVICE COMPANY										
NUCLEAR	12.5	9.6	3.3	--	19.1	8.9	9.6	0.8	2.1	--
NORTHERN INDIANA PUBLIC SERVICE COMPANY										
COAL	17.1	7.5	20.5	21.2	7.2	0.4	4.7	10.7	17.5	--
NORTHERN STATES POWER COMPANY										
NUCLEAR	31.5	6.0	3.9	0.5	2.5	--	--	--	--	--
COAL	11.5	--	--	5.8	9.4	10.4	11.6	6.4	--	--
OMAHA PUBLIC POWER DISTRICT										
NUCLEAR	3.7	2.3	13.1	2.1	--	--	--	--	--	--
PACIFIC POWER & LIGHT COMPANY										
COAL	7.4	13.4	8.5	9.3	15.2	10.7	--	--	--	--
PENNSYLVANIA ELECTRIC COMPANY										
COAL	22.3	25.0	26.6	22.6	27.5	22.3	26.0	23.3	25.2	22.0

Table E-8 (continued)

UTILITY	1	2	3	4	5	6	7	8	9	10
PENNSYLVANIA POWER & LIGHT COMPANY COAL	8.2	5.4	9.1	5.8	8.7	3.7	6.0	6.4	1.3	4.9
PHILADELPHIA ELECTRIC COMPANY NUCLEAR	13.8	12.6	27.3	--	--	--	--	--	--	--
PORTLAND GENERAL ELECTRIC COMPANY NUCLEAR	11.0	--	--	--	--	--	--	--	--	--
POWER AUTHORITY OF STATE OF NEW YORK NUCLEAR	4.9	6.3	--	--	--	--	--	--	--	--
PUBLIC SERVICE COMPANY OF INDIANA COAL	2.2	3.0	2.8	4.9	13.8	6.7	--	--	--	--
PUBLIC SERVICE ELECTRIC & GAS COMPANY COAL	60.4	23.8	25.3	96.6	19.8	15.5	17.0	11.2	14.5	--
ROCHESTER G&E NUCLEAR	--	3.3	--	4.6	35.4	3.6	35.2	4.7	--	--
SACRAMENTO MUNICIPAL UTILITY DISTRICT NUCLEAR	--	69.6	1.2	--	--	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON COMPANY NUCLEAR COAL	57.8 37.3	9.9 23.4	-- 16.8	2.1 26.0	1.5 10.1	23.7 12.8	7.2 --	0.2 --	2.5 --	-- --
SOUTHERN ELECTRIC GENERATING COMPANY COAL	14.3	27.7	9.9	--	--	--	--	--	--	--
SOUTHERN SERVICES, INCORPORATED COAL	29.9	12.3	9.9	--	--	--	--	--	--	--
TAMPA ELECTRIC COMPANY COAL	3.7	4.9	8.9	4.2	4.7	16.4	12.9	14.6	24.1	17.3
TENNESSEE VALLEY AUTHORITY NUCLEAR COAL	41.5 11.7	73.1 15.9	45.2 13.9	4.1 7.0	-- 8.6	-- 12.0	-- 9.0	-- 9.0	-- 13.2	-- 24.4
UNION ELECTRIC COMPANY COAL	17.5	24.1	12.3	12.1	13.1	21.6	21.8	19.8	17.4	11.7
VIRGINIA ELECTRIC & POWER COMPANY NUCLEAR COAL	30.6 45.9	28.1 15.9	10.0 23.8	27.8 14.2	25.1 5.2	-- 7.2	-- 15.9	-- 25.3	-- 20.3	-- 14.0
WISCONSIN ELECTRIC POWER COMPANY NUCLEAR	3.4	0.5	2.1	2.8	8.2	0.1	3.1	--	--	--
WISCONSIN POWER & LIGHT COMPANY COAL	0.4	4.4	--	--	--	--	--	--	--	--
WISCONSIN PUBLIC SERVICE CORPORATION NUCLEAR	9.7	5.0	18.9	--	--	--	--	--	--	--
YANKEE ATOMIC ELECTRIC COMPANY NUCLEAR	--	3.1	4.1	2.1	0.5	--	--	--	--	--

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Appendix F
STATE AND UTILITY RANKINGS

TABLE F-1: ORDERING OF NUCLEAR UNIT AVAILABILITY FACTORS BY CALENDAR YEAR (BY STATE)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
CT(76.8)	CT(86.3)	CA(84.9)	WI(98.8)	CA(55.2)	MN(95.5)	NB(92.6)	VT(87.8)	ME(96.0)	MI(91.4)
CA(41.7)	CA(77.1)	CT(77.7)	NJ(96.5)	SC(83.4)	NY(95.0)	CT(91.2)	CA(87.4)	MD(95.0)	AL(88.3)
		NJ(77.0)	CA(93.4)	NJ(82.4)	IL(95.0)	CA(86.1)	WI(84.7)	WI(84.1)	MN(87.2)
			NY(78.6)	WI(72.3)	MA(86.6)	WI(80.2)	PA(81.1)	GA(83.1)	VT(85.1)
			IL(65.0)	IL(43.3)	WI(85.9)	VT(74.1)	CT(80.9)	CT(82.8)	WI(84.6)
			SC(56.9)		SC(75.2)	NY(74.1)	MN(80.3)	MN(81.6)	NB(82.9)
					NJ(73.2)	SC(71.3)	ME(79.9)	NJ(79.3)	ME(82.2)
					CA(62.1)	NJ(70.4)	VA(79.7)	VT(78.0)	IL(81.1)
					MI(12.9)	ME(68.7)	IA(79.5)	IA(77.0)	IA(78.9)
						IL(65.9)	AR(77.1)	IL(72.8)	CT(77.7)
						MN(61.8)	NB(76.3)	NB(72.5)	CA(77.1)
						AL(60.1)	NY(76.0)	PA(71.4)	OR(76.9)
						VA(50.6)	SC(74.8)	SC(68.4)	AR(76.4)
						MA(39.2)	MA(74.3)	MA(60.8)	NY(73.4)
						MI(5.5)	NJ(73.3)	NY(58.4)	VA(72.3)
							MI(64.5)	AR(56.6)	MD(71.8)
							IL(58.6)	NC(56.0)	NJ(71.5)
							AL(20.1)	MI(55.0)	SC(70.8)
								CA(49.2)	GA(66.2)
								VA(30.3)	PA(66.1)
								AL(27.9)	NC(55.7)

ALABAMA AL
 ARKANSAS AR
 CALIFORNIA CA
 CONNECTICUT CT
 FLORIDA FL
 GEORGIA GA
 ILLINOIS IL

IOWA IA
 MAINE ME
 MARYLAND MD
 MASSACHUSETTS ... MA
 MICHIGAN MI
 MINNESOTA MN
 NEBRASKA NB
 NEW JERSEY NJ

NEW YORK NY
 NORTH CAROLINA .. NC
 OREGON OR
 PENNSYLVANIA PA
 SOUTH CAROLINA .. SC
 VERMONT VT
 VIRGINIA VA
 WISCONSIN WI

TABLE F-2: ORDERING OF NUCLEAR UNIT CAPACITY FACTORS BY CALENDAR YEAR (BY STATE)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
CT(72.1)	CT(71.9)	CA(81.3)	CA(92.1)	CA(92.1)	NY(94.2)	CT(88.4)	CA(86.5)	MD(92.8)	MN(85.8)
CA(34.3)	CA(69.8)	NJ(73.2)	NJ(78.2)	NJ(78.2)	WI(72.3)	CA(84.0)	VT(85.1)	ME(88.8)	WI(82.4)
		CT(69.6)	NY(66.1)	NY(66.1)	MA(72.2)	WI(76.1)	CT(76.2)	WI(81.2)	MI(80.1)
		NY(63.2)	SC(41.6)	SC(41.6)	NJ(67.9)	SC(69.0)	WI(75.0)	NJ(73.1)	VT(78.4)
			WI(39.7)	WI(39.7)	MN(67.2)	NJ(66.8)	MN(73.4)	VT(72.6)	ME(77.2)
			IL(39.6)	IL(39.6)	IL(67.0)	ME(62.7)	ME(71.4)	MN(71.1)	CA(75.7)
					SC(65.0)	NB(61.0)	SC(70.7)	CT(70.9)	CT(73.8)
					CA(62.8)	VT(59.8)	VA(68.4)	PA(66.9)	VA(71.2)
					MI(41.0)	NY(54.0)	NY(66.8)	SC(65.6)	NB(71.0)
						IL(50.2)	PA(66.8)	GA(63.0)	OR(70.3)
						MN(47.7)	AR(66.4)	MI(62.3)	MD(69.8)
						VA(45.5)	NJ(57.6)	IA(59.3)	AR(69.1)
						MA(34.9)	NB(56.1)	VA(58.9)	NY(66.2)
						AL(29.1)	IA(52.2)	IL(57.6)	IA(65.6)
						MI(1.5)	IL(48.0)	NB(55.8)	SC(63.9)
							MA(46.0)	NY(53.1)	GA(61.2)
							MI(44.0)	AR(52.5)	AL(60.3)
							AL(10.3)	CA(47.1)	PA(60.0)
								MA(42.8)	IL(59.8)
								NC(36.4)	NJ(59.2)
								AL(15.4)	NC(35.7)

ALABAMA AL
 ARKANSAS AR
 CALIFORNIA CA
 CONNECTICUT CT
 FLORIDA FL
 GEORGIA GA
 ILLINOIS IL

IOWA IA
 MAINE ME
 MARYLAND MD
 MASSACHUSETTS ... MA
 MICHIGAN MI
 MINNESOTA MN
 NEBRASKA NB
 NEW JERSEY NJ

NEW YORK NY
 NORTH CAROLINA .. NC
 OREGON OR
 PENNSYLVANIA PA
 SOUTH CAROLINA .. SC
 VERMONT VT
 VIRGINIA VA
 WISCONSIN WI

TABLE F-3: ORDERING OF NUCLEAR UNIT EQUIVALENT AVAILABILITY BY CALENDAR YEAR (BY STATE)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
CT(73.3)	CT(84.0)	NJ(77.0)	WI(98.8)	SC(87.7)	MN(95.5)	NB(92.6)	VT(81.9)	ME(92.9)	MN(87.2)
CA(39.2)	CA(75.7)	CT(69.5)	NJ(96.3)	NJ(82.2)	NY(95.0)	CT(89.3)	WI(79.9)	MD(90.6)	MI(86.6)
		CA(40.2)	CA(85.9)	MI(81.3)	IL(92.3)	CA(84.3)	MN(79.7)	WI(83.8)	WI(84.4)
		NY(0.0)	NY(78.1)	CA(80.2)	WI(85.9)	WI(79.0)	VA(79.7)	MA(80.9)	NB(82.9)
			SC(56.9)	WI(72.3)	SC(74.1)	NY(74.1)	AR(77.0)	VT(78.0)	VT(81.6)
			IL(35.0)	IL(32.1)	MA(71.7)	NJ(66.1)	NY(74.7)	GA(74.6)	ME(79.8)
					NJ(67.2)	VT(62.1)	SC(71.7)	IA(74.2)	AR(76.3)
					CA(39.8)	SC(61.5)	NB(69.6)	CT(72.3)	CA(76.1)
					MI(11.2)	IL(58.6)	ME(66.8)	NC(70.7)	IA(75.4)
						ME(55.1)	PA(63.6)	NE(68.8)	AL(74.9)
						VA(50.6)	IA(62.0)	SC(66.6)	OR(73.9)
						MN(39.9)	NJ(59.2)	PA(66.2)	VA(72.3)
						MA(37.4)	MA(49.6)	IL(60.8)	NY(70.6)
						AL(20.8)	IL(48.7)	NY(57.3)	MD(69.7)
						MI(1.9)	MI(41.2)	AR(56.6)	IL(66.9)
							CT(38.1)	NC(53.6)	GA(64.2)
							CA(31.7)	MI(50.0)	PA(64.2)
							AL(20.0)	CA(48.3)	SC(63.0)
								MA(41.7)	NJ(60.4)
								VA(30.3)	NC(55.1)
								AL(27.6)	CT(6.8)

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 CALIFORNIA CA
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 FLORIDA FL
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 MARYLAND MD
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 MICHIGAN MI
 MINNESOTA MN
 NEBRASKA NB
 NEW JERSEY NJ

NEW YORK NY
 NORTH CAROLINA .. NC
 OREGON OR
 PENNSYLVANIA PA
 SOUTH CAROLINA .. SC
 VERMONT VT
 VIRGINIA VA
 WISCONSIN WI

TABLE F-4: ORDERING OF NUCLEAR UNIT FORCED OUTAGE RATES BY CALENDAR YEAR (BY STATE)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
CT(16.7)	CT(4.1)	CT(3.3)	WI(0.5)	WI(0.5)	IL(2.9)	ME(2.6)	CA(0.2)	ME(0.7)	ME(0.5)
CA(57.8)	CA(9.9)	NJ(7.4)	NJ(1.4)	CA(1.5)	MA(3.0)	VT(3.6)	ME(3.7)	MD(1.6)	MN(0.6)
			CA(2.1)	SC(4.2)	WI(3.9)	NB(3.7)	VT(4.4)	NJ(1.8)	CA(1.2)
			NY(2.3)	NJ(4.9)	NY(4.6)	WI(5.1)	NY(4.8)	WI(1.8)	NB(2.2)
			IL(14.2)	IL(15.3)	MN(5.1)	CA(7.2)	IA(6.1)	VT(3.5)	IA(2.5)
			SC(47.6)		SC(5.9)	SC(7.6)	AR(6.7)	IA(3.7)	IL(4.3)
					NC(14.4)	CT(8.9)	MN(7.6)	MN(5.8)	MD(5.2)
					CA(23.7)	NY(15.8)	NB(8.0)	CT(6.4)	AR(5.3)
					MI(54.9)	NJ(16.3)	WI(9.6)	IL(8.3)	MI(5.8)
						IL(17.7)	VA(9.8)	GA(8.6)	NY(6.2)
						AL(22.0)	CT(9.9)	NB(8.9)	NJ(6.8)
						MN(24.9)	NJ(11.4)	MA(9.4)	WI(7.4)
						VA(36.7)	PA(13.0)	PA(11.5)	GA(9.8)
						MA(48.1)	SC(17.6)	NY(14.5)	OR(11.0)
						MI(94.3)	MA(18.3)	SC(16.5)	AL(11.0)
							IL(18.9)	MI(19.5)	CT(12.6)
							MI(31.8)	AR(21.6)	VA(13.5)
							AL(87.4)	NC(30.2)	NC(13.9)
								VA(33.7)	SC(17.5)
								CA(36.1)	PA(19.4)
								AL(67.6)	

ALABAMA AL
 ARKANSAS AR
 CALIFORNIA CA
 CONNECTICUT CT
 FLORIDA FL
 GEORGIA GA
 ILLINOIS IL

IOWA IA
 MAINE ME
 MARYLAND MD
 MASSACHUSETTS ... MA
 MICHIGAN MI
 MINNESOTA MN
 NEBRASKA NB
 NEW JERSEY NJ

NEW YORK NY
 NORTH CAROLINA .. NC
 OREGON OR
 PENNSYLVANIA PA
 SOUTH CAROLINA .. SC
 VERMONT VT
 VIRGINIA VA
 WISCONSIN WI

TABLE F-5: ORDERING OF COAL UNIT AVAILABILITY FACTORS BY CALENDAR YEAR (BY STATE)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
MI(93.8)	MI(92.4)	MI(83.2)	MI(87.8)	MN(36.7)	TN(94.2)	TN(92.0)	NC(82.1)	IA(92.1)	WI(83.4)
NC(89.7)	WV(82.8)	WV(83.2)	WV(86.5)	NC(34.4)	NC(86.4)	VA(87.0)	MN(78.0)	TN(86.7)	WY(83.4)
OH(87.9)	NC(81.2)	MO(79.7)	TN(85.2)	NM(31.6)	PA(81.8)	NC(85.0)	MO(77.6)	WY(86.2)	WA(79.7)
WV(84.2)	IN(79.7)	NC(79.0)	NC(83.3)	FL(31.2)	IN(80.6)	MN(82.0)	WV(77.5)	NC(85.0)	MI(79.0)
KY(83.1)	AL(78.3)	TN(76.9)	AL(82.3)	WV(30.8)	NM(80.5)	IN(79.7)	IN(77.0)	MN(79.9)	NC(77.0)
PA(76.3)	OH(74.3)	OH(76.5)	MO(78.4)	MI(79.7)	MI(79.4)	MI(79.6)	PA(76.3)	WI(79.4)	MO(76.1)
TN(76.1)	PA(73.6)	AL(76.1)	VA(77.5)	OH(77.2)	OH(77.9)	FL(79.0)	MI(76.0)	NV(77.4)	IN(75.4)
AL(75.3)	KY(73.6)	KY(73.2)	KY(75.4)	KY(75.3)	FL(76.5)	NV(77.0)	KY(75.2)	IN(77.4)	WV(75.1)
IN(72.2)	TN(73.5)	NJ(71.8)	IL(73.9)	GA(74.8)	NJ(75.7)	IL(75.2)	WY(75.0)	NJ(77.0)	IA(73.6)
IL(67.4)	MN(68.0)	IL(71.4)	OH(73.5)	PA(73.8)	KY(75.6)	WV(74.1)	CH(74.9)	WV(76.5)	FL(71.9)
	IL(64.3)	IN(70.8)	IN(72.8)	VA(72.2)	VA(74.7)	NM(72.3)	MS(74.3)	MO(74.1)	PA(71.0)
	NJ(38.9)	NM(69.3)	NM(71.6)	IL(70.5)	WV(74.2)	PA(72.1)	FL(72.1)	KY(72.9)	GA(68.9)
		PA(63.6)	PA(70.2)	NV(70.4)	AL(73.5)	AL(72.0)	IN(72.0)	PA(72.6)	NM(67.9)
		VA(63.5)	FL(69.9)	IN(62.9)	WA(73.4)	OH(70.0)	WA(71.5)	MI(72.0)	IL(67.7)
		FL(63.3)	NJ(65.9)	MO(57.2)	GA(72.4)	KY(69.9)	GA(69.8)	VA(71.9)	MN(67.4)
			NV(48.9)	AL(54.1)	IL(72.1)	MO(67.8)	NV(69.6)	OH(70.8)	TN(66.6)
				WA(52.4)	MO(70.2)	GA(66.9)	AL(69.5)	WA(70.5)	AL(66.1)
				TN(33.9)	NV(70.0)	NJ(64.1)	IL(67.1)	NM(67.8)	OH(65.2)
				NJ(1.0)	MN(67.8)	MS(49.4)	KS(59.1)	KS(65.8)	KY(65.1)
						KS(48.3)	NM(56.0)	AL(64.1)	NJ(59.9)
						WA(8.3)	VA(55.3)	IL(63.4)	KS(49.4)
							NJ(53.5)	GA(61.7)	VA(21.7)
								FL(61.1)	
								MS(28.0)	

ALABAMA AL
FLORIDA FL
GEORGIA GA
ILLINOIS IL
INDIANA IN
IOWA IA
KANSAS KS
KENTUCKY KY

MICHIGAN MI
MINNESOTA MN
MISSISSIPPI MS
MISSOURI MO
NEVADA NV
NEW JERSEY NJ
NEW MEXICO NM
NORTH CAROLINA .. NC

OHIO OH
PENNSYLVANIA PA
TENNESSEE TN
VIRGINIA VA
WASHINGTON WA
W. VIRGINIA WV
WISCONSIN WI
WYOMING WY

TABLE F-6: ORDERING OF COAL UNIT CAPACITY FACTORS BY CALENDAR YEAR (BY STATE)

1958	1969	1970	1971	1972	1973	1974	1975	1976	1977
OH(84.1)	MI(83.0)	MI(74.9)	MI(80.3)	NM(73.2)	NC(73.5)	TN(83.6)	PA(65.2)	TN(79.5)	WA(73.1)
KY(81.3)	IN(80.7)	WV(71.4)	WV(74.2)	NC(72.7)	TN(73.1)	NC(68.2)	NC(65.2)	IA(70.9)	WY(72.6)
WV(79.7)	KY(79.4)	OH(67.9)	TN(73.2)	WV(72.4)	MI(72.5)	VA(67.0)	MI(64.3)	NC(67.2)	FL(62.9)
MI(75.0)	WV(76.6)	TN(67.5)	NC(73.1)	MN(69.8)	NM(71.4)	MI(66.5)	MN(63.3)	MN(65.7)	MI(62.8)
NC(74.2)	OH(74.1)	NC(67.0)	KY(67.4)	MI(69.5)	IN(69.8)	IN(63.5)	TN(62.3)	PA(65.2)	PA(62.3)
PA(70.1)	TN(68.5)	MO(64.1)	NM(64.0)	TN(69.1)	PA(68.9)	NM(63.2)	FL(61.0)	WV(64.8)	WI(62.2)
TN(68.3)	NC(68.1)	IN(64.1)	OH(63.4)	KY(67.3)	OH(67.2)	FL(63.2)	WV(60.2)	NV(62.4)	WV(62.2)
IN(67.7)	PA(66.9)	AL(62.5)	PA(62.0)	OH(67.1)	KY(66.4)	MN(63.0)	IN(59.6)	KY(61.5)	NC(61.6)
AL(64.5)	AL(65.5)	KY(61.9)	AL(61.5)	PA(63.7)	WV(64.1)	KY(61.4)	NV(59.0)	WI(61.3)	NM(61.5)
IL(52.5)	MN(58.6)	IL(55.5)	VA(58.8)	FL(61.4)	AL(62.3)	NV(60.9)	MO(58.7)	IN(61.3)	MO(57.0)
	IL(50.8)	PA(55.5)	IL(56.2)	VA(60.0)	NJ(61.1)	WV(60.0)	OH(55.8)	NM(59.8)	IA(54.8)
	NJ(27.0)	NJ(53.1)	IN(55.4)	IL(54.9)	VA(59.6)	IL(59.2)	WA(54.2)	NJ(58.5)	KY(54.2)
		FL(46.0)	MO(54.0)	IN(52.8)	MN(58.2)	PA(57.0)	MS(53.8)	MS(58.5)	IN(54.0)
		VA(42.3)	NJ(46.9)	NV(51.0)	FL(57.4)	AL(50.7)	IL(52.8)	OH(58.1)	GA(53.8)
		NM(40.3)	FL(46.7)	GA(50.2)	IL(54.1)	OH(50.3)	KY(52.0)	MI(56.9)	TN(53.5)
			NV(22.5)	AL(43.1)	NV(53.7)	GA(50.2)	GA(50.7)	MO(55.9)	IL(53.5)
				MO(36.3)	MO(51.5)	MS(49.3)	NM(49.1)	WA(53.9)	AL(49.1)
				WA(31.6)	GA(51.2)	MO(48.5)	AL(48.8)	IL(52.7)	NJ(44.7)
				NJ(1.7)	WA(45.3)	NJ(43.5)	WY(44.7)	AL(50.7)	OH(42.5)
						WA(37.3)	VA(36.0)	GA(49.4)	KS(31.1)
						KS(23.3)	KS(35.3)	WY(48.3)	VA(29.3)
							NJ(28.9)	FL(48.1)	MN(0.2)
								VA(43.2)	
								KS(42.4)	

ALABAMA AL
 FLORIDA FL
 GEORGIA GA
 ILLINOIS IL
 INDIANA IN
 IOWA IA
 KANSAS KS
 KENTUCKY KY

MICHIGAN..... MI
 MINNESOTA..... MN
 MISSISSIPPI..... MS
 MISSOURI MO
 NEVADA NV
 NEW JERSEY NJ
 NEW MEXICO NM
 NORTH CAROLINA .. NC

OHIO OH
 PENNSYLVANIA PA
 TENNESSEE..... TN
 VIRGINIA VA
 WASHINGTON WA
 W. VIRGINIA..... WV
 WISCONSIN WI
 WYOMING WY

TABLE F-7: ORDERING OF COAL UNIT EQUIVALENT AVAILABILITY BY CALENDAR YEAR (BY STATE)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
MI(93.8)	MI(92.1)	WV(80.7)	MI(85.6)	MN(86.4)	TN(94.0)	TN(91.8)	NC(78.2)	TN(85.9)	WI(83.2)
NC(89.2)	WV(80.7)	MI(79.8)	WV(84.9)	NC(75.5)	NC(85.1)	NC(81.9)	MN(78.0)	NC(81.1)	WA(73.8)
OH(85.4)	NC(79.8)	NC(74.6)	NC(80.9)	MI(74.9)	IN(78.1)	MN(79.8)	WY(75.0)	MN(79.7)	WY(73.0)
KY(80.7)	AL(76.6)	TN(74.4)	AL(76.8)	OH(74.2)	OH(73.7)	FL(76.6)	WV(71.5)	WY(79.6)	NC(69.9)
WV(80.2)	IN(75.1)	OH(70.8)	OH(70.1)	NM(71.4)	MI(73.6)	IN(75.7)	WA(71.5)	IN(72.9)	FL(69.6)
AL(73.0)	TN(71.9)	AL(69.6)	IN(69.9)	WV(69.3)	WA(73.4)	MI(70.2)	IN(70.9)	NJ(72.7)	WV(69.6)
TN(71.3)	OH(68.4)	MO(66.9)	VA(69.8)	VA(68.9)	PA(73.3)	NV(69.4)	TN(70.4)	WV(70.9)	MI(69.3)
PA(70.4)	MN(66.0)	NJ(62.9)	MO(69.1)	PA(68.2)	NM(72.1)	WV(68.3)	OH(69.3)	WI(70.9)	IA(65.1)
IN(68.2)	PA(64.4)	FL(62.5)	PA(66.4)	NV(68.1)	WV(72.0)	OH(64.3)	MO(68.4)	NV(68.2)	PA(63.2)
IL(59.3)	KY(56.9)	VA(61.0)	NJ(63.7)	GA(66.4)	FL(69.6)	PA(64.1)	PA(67.6)	PA(66.3)	OH(62.7)
	IL(53.9)	PA(60.2)	IL(62.8)	KY(63.7)	MN(67.6)	KY(63.5)	MS(67.5)	WA(65.9)	NM(62.7)
	NJ(37.4)	IL(59.2)	NM(54.3)	IN(61.2)	NJ(67.3)	IL(63.0)	MI(65.2)	KS(65.8)	TN(61.7)
		NM(54.3)	FL(52.8)	IL(60.1)	VA(66.8)	NM(62.8)	KY(65.2)	OH(65.7)	MN(61.3)
		IN(53.2)	TN(49.3)	FL(56.2)	IL(64.3)	AL(62.7)	IL(62.7)	MO(65.6)	KY(58.4)
		KY(37.2)	KY(40.4)	WA(52.4)	AL(63.6)	MO(59.8)	NV(59.1)	NM(61.6)	MO(54.4)
			NV(1.5)	AL(50.8)	MO(63.5)	VA(59.2)	KS(59.1)	MI(60.8)	GA(53.6)
				MO(49.8)	KY(58.1)	NJ(55.3)	GA(55.1)	KY(60.1)	NJ(52.9)
				TN(32.9)	NV(56.5)	GA(50.6)	VA(48.8)	VA(59.3)	AL(52.9)
				NJ(1.0)	GA(53.7)	KS(48.3)	NM(47.6)	IL(59.2)	IN(52.3)
						MS(48.0)	AL(41.9)	IA(58.2)	IL(51.5)
						WA(8.3)	FL(40.6)	FL(56.8)	KS(49.4)
							NJ(37.9)	GA(56.2)	VA(7.7)
								AL(53.3)	
								MS(22.3)	

ALABAMA AL
FLORIDA FL
GEORGIA GA
ILLINOIS IL
INDIANA IN
IOWA IA
KANSAS KS
KENTUCKY KY

MICHIGAN MI
MINNESOTA MN
MISSISSIPPI MS
MISSOURI MO
NEVADA NV
NEW JERSEY NJ
NEW MEXICO NM
NORTH CAROLINA .. NC

OHIO OH
PENNSYLVANIA PA
TENNESSEE TN
VIRGINIA VA
WASHINGTON WA
W. VIRGINIA WV
WISCONSIN WI
WYOMING WY

TABLE F-8: ORDERING OF COAL UNIT FORCED OUTAGE RATES BY CALENDAR YEAR (BY STATE)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
NC(3.4)	MI(1.1)	TN(4.5)	TN(2.4)	FL(5.6)	WA(4.2)	TN(2.7)	WY(2.0)	WI(0.4)	WI(4.4)
KY(3.9)	MN(5.1)	MI(4.6)	MI(3.7)	VA(5.7)	TN(4.8)	NC(4.2)	NC(4.7)	IA(3.9)	WY(6.4)
MI(4.6)	NC(6.6)	WV(6.2)	NC(4.4)	NC(5.8)	MI(5.9)	IN(7.0)	IN(7.3)	MN(6.4)	WA(7.3)
OH(7.4)	TN(7.1)	AL(9.0)	FL(6.2)	MN(5.8)	NC(6.3)	VA(8.2)	FL(7.5)	NC(6.5)	FL(8.6)
IL(8.9)	WV(8.7)	NC(11.2)	WV(6.4)	WV(6.3)	IN(7.2)	FL(8.2)	VA(10.5)	WY(6.9)	IA(8.8)
PA(10.3)	AL(8.8)	IN(11.6)	VA(10.0)	TN(7.0)	MN(9.4)	MN(10.4)	MO(10.6)	IN(7.9)	NC(9.7)
AL(11.8)	KY(11.1)	IL(12.6)	KY(11.3)	KY(9.1)	IL(10.4)	KY(10.5)	WA(11.2)	MS(9.9)	IL(10.9)
WV(14.1)	IN(12.9)	MO(13.6)	NM(11.7)	OH(10.0)	NM(12.1)	IL(13.1)	WV(11.4)	WV(10.8)	WV(11.0)
IN(15.0)	OH(13.1)	NM(15.1)	AL(12.0)	MI(12.2)	VA(12.2)	MI(14.0)	TN(11.4)	NV(11.0)	MO(11.0)
TN(15.4)	IL(16.9)	FL(16.8)	IL(12.4)	IL(13.0)	PA(12.4)	MO(14.1)	MN(11.6)	NJ(11.2)	IN(12.8)
	PA(22.2)	KY(17.0)	PA(14.4)	NM(13.5)	FL(12.9)	NJ(15.5)	MS(12.3)	KY(11.6)	MI(14.0)
	NJ(60.4)	OH(17.6)	MO(16.8)	PA(17.1)	GA(14.4)	NV(18.5)	PA(13.3)	MO(12.4)	NJ(14.5)
		PA(23.8)	OH(20.1)	IN(19.1)	OH(14.5)	PA(18.7)	OH(13.9)	TN(13.2)	KY(15.4)
		NJ(25.6)	IN(21.6)	GA(21.6)	KY(16.3)	WV(19.3)	MI(14.2)	FL(13.7)	TN(16.5)
		VA(35.3)	NJ(25.3)	WA(22.3)	AL(16.9)	OH(19.7)	IL(14.6)	PA(14.4)	PA(16.8)
			NV(50.1)	NV(23.6)	WV(17.0)	WA(20.4)	KY(15.1)	OH(15.1)	GA(17.1)
				AL(33.1)	MO(19.5)	AL(21.0)	NJ(17.0)	MI(16.5)	MN(17.8)
				MO(33.5)	NJ(19.8)	GA(23.2)	NV(20.0)	IL(17.8)	AL(21.6)
				NJ(96.6)	NV(21.8)	NM(26.6)	GA(21.5)	VA(19.5)	NM(22.5)
						MS(29.9)	AL(22.4)	WA(19.8)	OH(29.0)
						KS(39.8)	NM(25.0)	NM(20.5)	VA(35.5)
							KS(29.8)	GA(21.2)	KS(40.2)
								AL(24.8)	
								KS(27.2)	

ALABAMA AL
FLORIDA FL
GEORGIA GA
ILLINOIS IL
INDIANA IN
IOWA IA
KANSAS KS
KENTUCKY KY

MICHIGAN MI
MINNESOTA MN
MISSISSIPPI MS
MISSOURI MO
NEVADA NV
NEW JERSEY NJ
NEW MEXICO NM
NORTH CAROLINA .. NC

OHIO OH
PENNSYLVANIA PA
TENNESSEE TN
VIRGINIA VA
WASHINGTON WA
W. VIRGINIA WV
WISCONSIN WI
WYOMING WY

TABLE F-9: ORDERING OF NUCLEAR UNIT AVAILABILITY FACTORS BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
81(76.8)	81(86.3)	21(84.9)	50(98.3)	21(96.2)	24(95.5)	165(92.6)	120(88.1)	29(95.0)	45(91.4)
21(41.7)	21(77.1)	81(77.7)	123(96.5)	92(88.4)	78(95.0)	81(91.2)	21(87.4)	14(90.9)	129(88.3)
		123(77.0)	21(93.4)	123(82.4)	30(95.0)	6(89.4)	152(85.2)	145(87.0)	24(87.2)
			78(88.3)	50(72.3)	35(86.6)	21(86.1)	145(83.9)	50(86.7)	50(87.0)
			14(68.9)	30(43.3)	50(85.9)	92(82.4)	50(83.1)	82(83.1)	152(86.2)
			30(65.0)		92(75.2)	50(80.2)	46(82.2)	81(82.8)	78(85.5)
			92(56.9)		123(73.2)	145(71.4)	81(80.9)	24(81.6)	145(83.7)
					21(62.1)	14(70.5)	38(80.6)	123(79.3)	30(81.1)
					45(12.9)	123(70.4)	24(80.3)	120(78.9)	46(80.9)
						30(65.9)	19(79.7)	38(77.5)	120(79.8)
						78(62.4)	94(79.5)	94(77.0)	165(79.5)
						24(61.8)	78(77.7)	152(75.5)	94(78.9)
						129(60.1)	98(77.1)	30(72.8)	81(77.7)
						113(60.1)	6(77.0)	92(70.4)	168(77.1)
						19(50.6)	113(75.5)	21(70.2)	8(76.9)
						35(39.2)	35(74.3)	165(69.5)	98(76.4)
						45(5.5)	14(73.4)	46(65.4)	6(75.7)
							123(73.3)	113(63.0)	19(72.3)
							92(72.7)	35(60.8)	29(71.8)
							165(67.4)	98(56.6)	143(71.6)
							45(64.5)	45(55.2)	123(71.5)
							30(58.6)	78(49.5)	92(70.4)
							129(20.1)	6(34.8)	82(66.2)
								19(30.3)	113(65.9)
								168(28.1)	14(62.5)
								129(27.9)	38(58.7)
6	CONSOLIDATED EDISON COMPANY OF NY		44	AMERICAN ELECTRIC POWER SERV CORP	113	DUKE POWER COMPANY			
8	PORTLAND GENERAL ELECTRIC COMPANY		45	CONSUMERS POWER COMPANY	120	WISCONSIN PUBLIC SERVICE CORP			
14	NIAGARA MOHAWK POWER CORPORATION		46	METROPOLITAN EDISON COMPANY	123	CENTRAL JERSEY POWER & LIGHT CO			
19	VIRGINIA ELECTRIC & POWER COMPANY		50	WISCONSIN ELECTRIC POWER COMPANY	129	TENNESSEE VALLEY AUTHORITY			
21	SOUTHERN CALIFORNIA EDISON CO		78	ROCHESTER G&E	143	POWER AUTHORITY OF STATE OF NY			
24	NORTHERN STATES POWER COMPANY		81	NORTHEAST UTILITIES SERVICE CO	145	YANKEE ATOMIC ELECTRIC COMPANY			
29	BALTIMORE GAS & ELECTRIC COMPANY		82	GEORGIA POWER COMPANY	152	NEBRASKA PUBLIC POWER DISTRICT			
30	COMMONWEALTH EDISON COMPANY		92	CAROLINA POWER & LIGHT COMPANY	165	OMAHA PUBLIC POWER DISTRICT			
35	BOSTON EDISON COMPANY		94	IOWA ELECTRIC LIGHT & POWER CO	168	SACRAMENTO MUNICIPAL UTILITY DIST			
38	PHILADELPHIA ELECTRIC COMPANY		98	ARKANSAS POWER & LIGHT COMPANY					

TABLE F-10: ORDERING OF NUCLEAR UNIT CAPACITY FACTORS BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
81(72.1)	81(71.9)	21(81.3)	21(92.1)	92(82.1)	78(94.2)	81(88.4)	21(86.5)	29(92.8)	24(85.8)
21(34.3)	21(69.8)	123(73.2)	123(78.2)	123(81.3)	50(72.3)	21(84.0)	46(82.0)	50(82.6)	50(84.4)
		81(69.6)	78(75.4)	21(78.5)	35(72.2)	92(82.6)	50(78.9)	145(80.7)	45(80.1)
		78(63.2)	14(56.8)	30(47.4)	123(67.9)	50(76.1)	145(78.3)	14(79.2)	46(79.1)
			92(41.6)	45(37.0)	24(67.2)	123(66.8)	78(76.6)	120(78.4)	120(78.6)
			50(39.7)	50(35.5)	30(67.0)	14(63.3)	81(76.2)	123(73.1)	145(77.8)
			30(39.6)		92(65.0)	145(61.3)	24(73.4)	24(71.1)	168(75.7)
					21(62.8)	165(61.0)	92(71.7)	81(70.9)	165(74.8)
					45(41.0)	113(55.4)	113(70.4)	38(69.2)	78(74.6)
						78(54.0)	19(68.4)	21(66.0)	81(73.8)
						30(50.2)	120(67.1)	46(64.6)	19(71.2)
						24(47.7)	98(66.4)	82(63.0)	8(70.3)
						19(45.5)	6(64.9)	92(59.9)	29(69.8)
						6(44.7)	152(59.7)	113(59.6)	6(69.1)
						35(34.9)	38(59.2)	94(59.3)	98(69.1)
						129(29.1)	14(58.9)	19(58.9)	152(67.2)
						45(1.5)	123(57.6)	30(57.6)	94(65.6)
							165(52.5)	165(56.7)	143(65.1)
							94(52.2)	152(54.9)	82(61.2)
							30(48.0)	98(52.5)	113(60.8)
							35(46.0)	78(49.8)	129(60.3)
							45(44.0)	45(47.8)	30(59.8)
							129(10.3)	35(42.8)	123(59.2)
								6(30.3)	14(57.0)
								168(28.1)	92(54.4)
								129(15.4)	38(50.5)

6	CONSOLIDATED EDISON COMPANY OF NY	44	AMERICAN ELECTRIC POWER SERV CORP	113	DUKE POWER COMPANY
8	PORTLAND GENERAL ELECTRIC COMPANY	45	CONSUMERS POWER COMPANY	120	WISCONSIN PUBLIC SERVICE CORP
14	NIAGARA MOHAWK POWER CORPORATION	46	METROPOLITAN EDISON COMPANY	123	CENTRAL JERSEY POWER & LIGHT CO
19	VIRGINIA ELECTRIC & POWER COMPANY	50	WISCONSIN ELECTRIC POWER COMPANY	129	TENNESSEE VALLEY AUTHORITY
21	SOUTHERN CALIFORNIA EDISON CO	78	ROCHESTER G&E	143	POWER AUTHORITY OF STATE OF NY
24	NORTHERN STATES POWER COMPANY	81	NORTHEAST UTILITIES SERVICE CO	145	YANKEE ATOMIC ELECTRIC COMPANY
29	BALTIMORE GAS & ELECTRIC COMPANY	82	GEORGIA POWER COMPANY	152	NEBRASKA PUBLIC POWER DISTRICT
30	COMMONWEALTH EDISON COMPANY	92	CAROLINA POWER & LIGHT COMPANY	165	OMAHA PUBLIC POWER DISTRICT
35	BOSTON EDISON COMPANY	94	IOWA ELECTRIC LIGHT & POWER CO	168	SACRAMENTO MUNICIPAL UTILITY DIST
38	PHILADELPHIA ELECTRIC COMPANY	98	ARKANSAS POWER & LIGHT COMPANY		

TABLE F-11: ORDERING OF NUCLEAR UNIT EQUIVALENT AVAILABILITY BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
81(73.3)	81(84.0)	123(77.0)	50(98.8)	92(87.7)	24(95.5)	165(92.6)	50(82.9)	14(90.9)	24(87.2)
21(39.2)	21(75.7)	81(69.5)	123(96.3)	123(82.2)	78(95.0)	6(89.4)	46(79.8)	29(90.6)	50(86.8)
		21(40.2)	78(88.3)	45(81.3)	30(92.3)	81(89.3)	24(79.7)	50(86.4)	45(86.6)
		78(0.0)	21(85.9)	21(80.2)	50(85.9)	21(84.3)	19(79.7)	45(85.4)	152(86.2)
			14(67.8)	50(72.3)	92(74.1)	50(79.0)	78(77.7)	24(80.9)	78(85.5)
			92(56.9)	30(32.1)	35(71.7)	14(70.5)	98(77.0)	120(78.7)	145(80.7)
			30(35.0)		123(67.2)	123(66.1)	145(74.4)	82(74.6)	120(79.7)
					21(39.8)	92(64.7)	120(73.9)	94(74.2)	165(79.5)
					45(11.2)	78(62.4)	6(73.3)	152(73.3)	46(79.4)
						145(58.6)	14(73.0)	81(72.3)	98(76.3)
						30(58.6)	113(72.0)	123(70.7)	168(76.1)
						113(58.3)	152(71.9)	38(69.2)	94(75.4)
						19(50.6)	32(70.9)	92(68.4)	129(74.9)
						24(39.9)	155(67.4)	21(68.4)	8(73.9)
						35(37.4)	94(62.0)	165(64.3)	6(72.6)
						129(20.8)	123(59.2)	46(63.2)	19(72.3)
						45(1.9)	38(55.5)	113(61.0)	92(69.9)
							35(49.6)	30(60.8)	143(69.9)
							30(48.7)	98(56.6)	29(69.7)
							45(41.2)	45(48.4)	30(66.9)
							31(38.1)	78(48.3)	82(64.2)
							21(31.7)	35(41.7)	123(60.4)
							129(20.0)	6(32.6)	38(56.6)
								19(30.3)	113(55.8)
								168(28.1)	14(54.8)
								129(27.6)	81(6.8)

6 CONSOLIDATED EDISON COMPANY OF NY	44 AMERICAN ELECTRIC POWER SERV CORP	113 DUKE POWER COMPANY
8 PORTLAND GENERAL ELECTRIC COMPANY	45 CONSUMERS POWER COMPANY	120 WISCONSIN PUBLIC SERVICE CORP
14 NIAGARA MOHAWK POWER CORPORATION	46 METROPOLITAN EDISON COMPANY	123 CENTRAL JERSEY POWER & LIGHT CO
19 VIRGINIA ELECTRIC & POWER COMPANY	50 WISCONSIN ELECTRIC POWER COMPANY	129 TENNESSEE VALLEY AUTHORITY
21 SOUTHERN CALIFORNIA EDISON CO	78 ROCHESTER G&E	143 POWER AUTHORITY OF STATE OF NY
24 NORTHERN STATES POWER COMPANY	81 NORTHEAST UTILITIES SERVICE CO	145 YANKEE ATOMIC ELECTRIC COMPANY
29 BALTIMORE GAS & ELECTRIC COMPANY	82 GEORGIA POWER COMPANY	152 NEBRASKA PUBLIC POWER DISTRICT
30 COMMONWEALTH EDISON COMPANY	92 CAROLINA POWER & LIGHT COMPANY	165 OMAHA PUBLIC POWER DISTRICT
35 BOSTON EDISON COMPANY	94 IOWA ELECTRIC LIGHT & POWER CO	168 SACRAMENTO MUNICIPAL UTILITY DIST
38 PHILADELPHIA ELECTRIC COMPANY	98 ARKANSAS POWER & LIGHT COMPANY	

TABLE F-12: ORDERING OF NUCLEAR UNIT FORCED CUTAGE RATES BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
81(16.7)	81(4.1)	81(3.3)	50(0.5)	50(0.5)	30(2.9)	92(0.9)	21(0.2)	50(0.3)	14(0.4)
21(57.8)	21(9.9)	123(7.4)	14(1.2)	21(1.5)	35(3.0)	145(3.1)	14(2.3)	29(1.6)	145(0.5)
			123(1.4)	92(4.2)	50(3.9)	165(3.7)	165(2.3)	123(1.8)	24(0.6)
			21(2.1)	123(4.9)	78(4.6)	14(4.3)	78(3.6)	14(2.0)	168(1.2)
			78(3.3)	30(15.3)	24(5.1)	50(5.1)	145(4.1)	145(2.1)	50(1.6)
			30(14.2)		92(5.9)	21(7.2)	94(6.1)	21(2.5)	165(2.1)
			92(47.6)		123(14.4)	6(7.8)	98(6.7)	94(3.7)	152(2.3)
					21(23.7)	81(8.9)	24(7.6)	152(4.7)	94(2.5)
					45(54.9)	113(14.3)	6(8.4)	120(5.0)	46(3.7)
						123(16.3)	50(9.5)	24(5.8)	30(4.3)
						30(17.7)	120(9.7)	6(6.3)	78(4.7)
						129(22.0)	19(9.8)	81(6.4)	29(5.2)
						24(24.9)	81(9.9)	30(8.3)	98(5.3)
						78(35.4)	123(11.4)	82(8.6)	143(5.6)
						19(36.7)	46(11.4)	35(9.4)	45(5.8)
						35(48.1)	152(13.6)	46(10.4)	123(6.8)
						45(94.3)	38(13.8)	45(12.5)	82(9.8)
							92(14.0)	38(12.6)	129(11.0)
							35(18.3)	165(13.1)	8(11.0)
							113(18.8)	92(16.5)	81(12.6)
							30(18.9)	113(21.1)	19(13.5)
							45(31.8)	98(21.6)	92(14.1)
							129(87.4)	19(33.7)	6(14.6)
								78(35.2)	113(18.6)
								129(67.6)	120(18.9)
								168(69.6)	38(27.3)

6	CONSOLIDATED EDISON COMPANY OF NY	44	AMERICAN ELECTRIC POWER SERV CORP	113	DUKE POWER COMPANY
8	PORTLAND GENERAL ELECTRIC COMPANY	45	CONSUMERS POWER COMPANY	120	WISCONSIN PUBLIC SERVICE CORP
14	NIAGARA MOHAWK POWER CORPORATION	46	METROPOLITAN EDISON COMPANY	123	CENTRAL JERSEY POWER & LIGHT CO
19	VIRGINIA ELECTRIC & POWER COMPANY	50	WISCONSIN ELECTRIC POWER COMPANY	129	TENNESSEE VALLEY AUTHORITY
21	SOUTHERN CALIFORNIA EDISON CO	78	ROCHESTER G&E	143	POWER AUTHORITY OF STATE OF NY
24	NORTHERN STATES POWER COMPANY	81	NORTHEAST UTILITIES SERVICE CO	145	YANKEE ATOMIC ELECTRIC COMPANY
29	BALTIMORE GAS & ELECTRIC COMPANY	82	GEORGIA POWER COMPANY	152	NEBRASKA PUBLIC POWER DISTRICT
30	COMMONWEALTH EDISON COMPANY	92	CAROLINA POWER & LIGHT COMPANY	165	OMAHA PUBLIC POWER DISTRICT
35	BOSTON EDISON COMPANY	94	IOWA ELECTRIC LIGHT & POWER CO	168	SACRAMENTO MUNICIPAL UTILITY DIST
38	PHILADELPHIA ELECTRIC COMPANY	98	ARKANSAS POWER & LIGHT COMPANY		

TABLE F-13: ORDERING OF COAL UNIT AVAILABILITY FACTORS BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
20(93.8)	20(92.4)	92(86.4)	85(92.6)	13(89.3)	9(99.6)	104(89.0)	92(87.4)	131(92.1)	85(87.4)
36(91.2)	36(84.3)	20(83.2)	27(90.8)	85(87.1)	104(90.6)	84(87.8)	43(87.0)	85(90.0)	36(85.2)
92(89.7)	92(81.2)	85(82.1)	26(90.6)	9(86.8)	44(88.0)	117(86.6)	104(85.4)	113(85.2)	74(83.4)
44(87.9)	129(75.9)	44(81.5)	20(87.8)	24(86.7)	113(88.0)	113(86.4)	36(83.7)	92(84.7)	92(83.0)
129(78.0)	44(74.3)	4(79.7)	92(86.4)	36(85.6)	36(85.9)	43(85.5)	26(82.6)	36(84.6)	135(81.9)
30(67.4)	19(74.1)	19(77.6)	5(85.6)	92(85.2)	73(84.6)	92(83.5)	9(81.1)	24(79.9)	9(81.9)
23(61.4)	23(68.2)	10(77.4)	13(84.6)	113(83.5)	92(84.1)	36(82.9)	10(80.1)	135(79.9)	122(79.6)
	24(68.0)	129(77.3)	19(83.5)	99(81.6)	10(83.3)	24(82.0)	33(78.6)	73(79.5)	20(79.0)
	30(64.3)	3(71.8)	36(83.4)	44(81.5)	117(82.2)	85(81.6)	113(78.2)	74(79.4)	4(75.4)
	3(38.9)	30(71.4)	113(80.2)	137(81.2)	43(82.1)	10(80.9)	27(78.1)	44(78.6)	131(73.6)
		73(70.3)	44(78.7)	20(79.7)	40(80.7)	26(80.6)	24(78.0)	117(78.4)	113(73.4)
		36(69.5)	129(77.6)	40(79.3)	99(80.5)	9(80.0)	85(77.5)	21(77.4)	5(73.0)
		99(69.3)	4(76.3)	5(79.0)	27(79.8)	20(79.6)	4(76.9)	40(77.1)	137(71.9)
		26(66.1)	30(74.8)	27(77.7)	20(79.4)	137(79.0)	44(76.8)	3(77.0)	30(71.0)
		113(64.2)	10(73.0)	117(77.6)	13(79.0)	40(77.2)	20(76.0)	9(75.3)	84(70.1)
		137(63.3)	40(71.9)	19(75.7)	129(77.0)	21(77.0)	40(75.3)	5(74.2)	82(68.9)
		23(57.2)	99(71.6)	82(74.8)	85(76.7)	44(76.0)	90(74.3)	27(73.9)	99(67.9)
			117(71.0)	43(72.7)	137(76.5)	33(74.9)	117(73.9)	4(73.4)	24(67.4)
			43(71.0)	21(70.4)	23(75.9)	99(72.3)	73(73.1)	20(72.0)	73(67.3)
			137(69.9)	10(69.8)	3(75.7)	27(69.8)	135(72.7)	13(71.9)	104(66.8)
			3(65.9)	30(68.1)	135(73.4)	30(67.6)	84(72.4)	43(70.3)	10(66.0)
			23(65.9)	23(67.8)	26(72.9)	13(67.6)	137(72.1)	10(69.9)	13(65.1)
			73(59.9)	26(64.7)	82(72.4)	82(66.9)	5(72.1)	26(69.5)	129(64.9)
			9(55.8)	73(60.0)	30(71.2)	4(64.7)	13(70.3)	129(68.4)	117(64.4)
			21(48.9)	104(58.6)	19(70.3)	19(64.5)	82(69.8)	104(68.1)	23(62.2)
				129(58.5)	21(70.0)	3(64.1)	21(69.6)	99(67.8)	3(59.9)
				135(52.4)	4(68.4)	73(63.8)	122(69.3)	19(67.5)	19(56.0)
				4(49.2)	24(67.8)	129(61.8)	23(68.6)	23(65.6)	26(52.8)
				3(1.0)	33(64.4)	23(59.2)	129(64.6)	82(61.7)	
					5(51.8)	90(49.4)	30(58.7)	137(61.1)	
						5(41.8)	19(57.3)	33(60.6)	
						135(8.3)	99(56.0)	122(51.0)	
							3(53.5)	30(49.2)	
								90(28.0)	
								84(22.2)	
3	PUBLIC SERVICE ELECTRIC & GAS CO		27	CLEVELAND ELECTRIC ILLUMINATING CO		90	SOUTHERN SERVICES, INCORPORATED		
4	UNION ELECTRIC COMPANY		30	COMMONWEALTH EDISON COMPANY		92	CAROLINA POWER & LIGHT COMPANY		
5	CINCINNATI GAS & ELECTRIC COMPANY		33	CENTRAL ILLINOIS PUBLIC SERV CO		99	ARIZONA PUBLIC SERVICE COMPANY		
9	DUQUESNE LIGHT COMPANY		36	PENNSYLVANIA POWER & LIGHT CO		104	KENTUCKY UTILITIES COMPANY		
10	ALLEGHENY POWER SERVICE CORP		40	DAYTON POWER & LIGHT COMPANY		113	DUKE POWER COMPANY		
13	KANSAS CITY POWER & LIGHT CO		43	PUBLIC SERVICE CO OF INDIANA		117	ILLINOIS POWER COMPANY		
19	VIRGINIA ELECTRIC & POWER CO		44	AMERICAN ELECTRIC POWER SERV CORP		122	SOUTHERN ELECTRIC GENERATING CO		
20	DETROIT EDISON COMPANY		73	NORTHERN INDIANA PUBLIC SERV CO		129	TENNESSEE VALLEY AUTHORITY		
21	SOUTHERN CALIFORNIA EDISON CO		74	WISCONSIN POWER & LIGHT COMPANY		131	IOWA PUBLIC SERVICE COMPANY		
23	PENNSYLVANIA ELECTRIC COMPANY		82	GEORGIA POWER COMPANY		135	PACIFIC POWER & LIGHT COMPANY		
24	NORTHERN STATES POWER COMPANY		84	COLUMBUS & SOUTHERN OHIO ELEC CO		137	TAMPA ELECTRIC COMPANY		
26	ALABAMA POWER COMPANY		85	INDIANAPOLIS POWER & LIGHT COMPANY					

TABLE F-14: ORDERING OF COAL UNIT CAPACITY FACTORS BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
36(87.0)	20(83.0)	20(74.9)	27(84.4)	113(77.1)	113(76.1)	113(76.7)	36(72.3)	36(75.8)	36(78.1)
44(84.1)	36(77.7)	44(72.8)	20(80.3)	85(73.2)	40(74.3)	117(73.0)	9(71.4)	85(71.3)	135(72.8)
20(75.0)	44(74.1)	85(72.0)	85(79.2)	99(73.2)	36(73.8)	43(71.3)	92(70.6)	131(70.9)	113(65.1)
92(74.2)	129(70.6)	10(70.4)	113(74.8)	44(72.2)	44(73.3)	36(71.3)	10(65.2)	10(70.2)	85(64.7)
129(70.7)	19(68.8)	92(69.3)	92(71.4)	117(71.7)	20(72.5)	85(68.6)	33(65.1)	113(68.5)	9(64.0)
23(53.2)	92(68.1)	129(65.1)	5(69.5)	27(69.9)	99(71.4)	20(66.5)	43(64.3)	24(65.7)	122(63.7)
30(52.5)	23(61.5)	4(64.1)	36(69.2)	24(69.8)	117(70.7)	9(65.9)	20(64.3)	117(65.4)	137(62.9)
	24(58.6)	113(62.4)	44(67.9)	20(69.5)	9(70.3)	99(63.2)	27(63.9)	92(65.1)	20(62.8)
	30(50.8)	36(58.1)	19(67.0)	40(68.8)	92(69.6)	137(63.2)	85(63.3)	40(64.4)	74(62.2)
	3(27.0)	19(55.6)	129(66.2)	92(68.4)	85(69.4)	24(63.0)	24(63.3)	27(62.6)	99(61.5)
		73(55.6)	117(64.4)	9(67.9)	27(68.6)	84(62.9)	4(61.2)	44(62.6)	10(59.2)
		30(55.5)	99(64.0)	36(66.7)	10(67.9)	21(60.9)	117(61.1)	21(62.4)	84(59.1)
		26(55.4)	10(62.1)	10(65.3)	43(67.7)	92(59.6)	113(61.1)	74(61.3)	4(58.9)
		3(53.1)	9(61.9)	19(63.8)	29(67.1)	44(58.0)	137(61.0)	9(61.2)	117(58.4)
		23(50.5)	40(61.3)	137(61.4)	23(66.7)	26(57.7)	23(59.4)	99(59.8)	92(55.7)
		137(46.0)	23(58.5)	23(60.7)	04(66.7)	104(57.6)	21(59.0)	73(59.1)	131(54.8)
		99(40.3)	26(56.1)	43(60.4)	26(63.2)	129(56.9)	26(58.1)	4(59.0)	82(53.8)
			4(55.6)	5(59.9)	3(61.1)	40(56.8)	40(57.9)	3(58.5)	104(53.8)
			30(53.4)	129(59.6)	24(58.2)	33(55.8)	104(57.8)	90(58.5)	23(53.1)
			43(50.3)	26(51.9)	73(57.9)	30(51.0)	44(56.2)	129(57.9)	30(48.5)
			13(48.9)	13(51.2)	137(57.4)	23(50.5)	84(54.3)	20(56.9)	129(48.1)
			73(48.0)	21(51.0)	19(55.9)	82(50.2)	90(53.8)	23(56.3)	73(46.9)
			3(46.9)	82(50.2)	21(53.7)	90(49.3)	122(53.8)	5(55.5)	19(46.7)
			137(46.7)	73(50.1)	4(52.9)	19(48.6)	73(52.6)	33(55.2)	26(46.3)
			21(22.5)	30(49.3)	82(51.2)	4(48.6)	135(51.0)	26(53.9)	3(44.7)
				104(42.7)	30(50.5)	10(47.9)	82(50.7)	19(52.7)	13(37.5)
				4(32.6)	33(48.6)	3(43.5)	99(49.1)	43(52.7)	5(29.5)
				135(31.6)	135(45.3)	73(42.2)	5(46.7)	122(51.8)	24(0.2)
				3(1.7)	13(44.0)	135(37.3)	129(45.6)	135(50.5)	
					5(38.8)	13(35.7)	30(43.2)	82(49.4)	
						27(35.2)	19(42.8)	137(48.1)	
						5(29.3)	13(39.6)	104(45.6)	
							3(28.9)	13(40.1)	
								30(39.2)	
								84(35.0)	
3 PUBLIC SERVICE ELECTRIC & GAS CO			27 CLEVELAND ELECTRIC ILLUMINATING CO				90 SOUTHERN SERVICES, INCORPORATED		
4 UNION ELECTRIC COMPANY			30 COMMONWEALTH EDISON COMPANY				92 CAROLINA POWER & LIGHT COMPANY		
5 CINCINNATI GAS & ELECTRIC COMPANY			33 CENTRAL ILLINOIS PUBLIC SERV CO				99 ARIZONA PUBLIC SERVICE COMPANY		
9 DUQUESNE LIGHT COMPANY			36 PENNSYLVANIA POWER & LIGHT CO				104 KENTUCKY UTILITIES COMPANY		
10 ALLEGHENY POWER SERVICE CORP			40 DAYTON POWER & LIGHT COMPANY				113 DUKE POWER COMPANY		
13 KANSAS CITY POWER & LIGHT CO			43 PUBLIC SERVICE CO OF INDIANA				117 ILLINOIS POWER COMPANY		
19 VIRGINIA ELECTRIC & POWER CO			44 AMERICAN ELECTRIC POWER SERV CORP				122 SOUTHERN ELECTRIC GENERATING CO		
20 DETROIT EDISON COMPANY			73 NORTHERN INDIANA PUBLIC SERV CO				129 TENNESSEE VALLEY AUTHORITY		
21 SOUTHERN CALIFORNIA EDISON CO			74 WISCONSIN POWER & LIGHT COMPANY				131 IOWA PUBLIC SERVICE COMPANY		
23 PENNSYLVANIA ELECTRIC COMPANY			82 GEORGIA POWER COMPANY				135 PACIFIC POWER & LIGHT COMPANY		
24 NORTHERN STATES POWER COMPANY			84 COLUMBUS & SOUTHERN OHIO ELEC CO				137 TAMPA ELECTRIC COMPANY		
26 ALABAMA POWER COMPANY			85 INDIANAPOLIS POWER & LIGHT COMPANY						

TABLE F-15: ORDERING OF COAL UNIT EQUIVALENT AVAILABILITY BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
20(93.8)	20(92.1)	92(83.7)	27(88.9)	13(89.3)	104(90.6)	113(85.9)	43(87.0)	85(84.7)	74(83.2)
36(90.5)	36(82.3)	20(79.8)	26(87.6)	24(86.4)	113(86.9)	104(85.8)	104(84.4)	113(82.4)	36(79.2)
92(89.2)	92(79.8)	85(79.1)	92(85.8)	92(83.6)	73(84.6)	43(85.5)	92(80.5)	24(79.7)	85(78.8)
44(85.4)	19(69.9)	10(75.7)	20(85.6)	85(83.5)	44(83.7)	117(84.7)	33(78.6)	92(78.9)	92(76.6)
129(75.3)	129(69.3)	44(75.1)	85(85.6)	36(80.8)	92(82.5)	24(79.8)	24(78.0)	36(78.6)	9(75.0)
30(59.3)	44(68.4)	19(73.7)	5(84.9)	9(80.8)	43(82.1)	92(78.0)	36(78.0)	117(76.7)	122(73.4)
23(50.3)	24(66.0)	73(70.3)	13(84.6)	44(78.6)	36(80.7)	137(76.6)	113(76.5)	73(74.4)	135(73.3)
	23(55.5)	36(68.1)	19(78.9)	5(77.5)	117(79.6)	10(76.5)	40(74.4)	135(74.1)	5(71.9)
	30(53.9)	4(66.9)	36(78.7)	117(77.2)	40(79.5)	85(76.2)	10(73.6)	5(72.9)	137(69.6)
	3(37.4)	26(65.2)	113(75.9)	40(77.0)	10(78.0)	40(76.2)	73(73.1)	3(72.7)	20(69.3)
		3(62.9)	44(74.1)	113(75.3)	13(77.9)	26(73.7)	135(72.7)	13(71.9)	104(66.8)
		137(62.5)	43(71.0)	20(74.9)	20(73.6)	36(73.4)	117(72.6)	74(70.9)	113(65.9)
		30(59.2)	117(70.8)	27(72.8)	135(73.4)	84(72.4)	27(70.6)	40(70.9)	13(65.1)
		113(56.5)	40(68.9)	43(72.7)	27(72.2)	33(72.2)	13(70.3)	9(69.9)	131(65.1)
		129(56.2)	10(67.2)	99(71.4)	99(72.1)	20(70.2)	122(67.7)	44(69.9)	84(63.6)
		99(54.3)	4(63.9)	21(68.1)	137(69.6)	21(69.4)	90(67.5)	21(68.2)	99(62.7)
		23(52.3)	3(63.7)	10(67.9)	23(68.4)	13(67.6)	4(66.2)	104(68.1)	117(62.2)
			23(62.6)	82(66.4)	24(67.6)	44(63.8)	5(65.4)	43(67.2)	24(61.3)
			30(60.1)	23(60.0)	3(67.3)	73(63.8)	20(65.2)	27(67.1)	23(56.0)
			73(59.9)	73(60.0)	9(66.8)	99(62.8)	44(64.5)	10(65.0)	82(53.6)
			9(55.8)	26(59.6)	19(65.6)	27(61.0)	84(60.7)	4(63.6)	3(52.9)
			99(54.3)	104(58.6)	85(64.8)	9(60.7)	23(59.9)	99(61.6)	10(52.3)
			137(52.8)	137(56.2)	33(64.4)	4(55.3)	21(59.1)	20(60.8)	129(52.2)
			129(50.7)	19(55.9)	129(62.8)	3(55.3)	85(56.2)	19(60.8)	4(50.7)
			21(1.5)	30(54.4)	4(60.6)	19(55.1)	19(55.2)	33(60.6)	19(48.8)
				135(52.4)	30(59.1)	129(53.1)	82(55.1)	23(58.2)	26(41.3)
				129(49.3)	26(57.7)	23(52.3)	9(54.9)	131(58.2)	30(40.8)
				4(40.0)	21(56.5)	82(50.6)	129(53.9)	26(57.8)	73(34.7)
				3(1.0)	82(53.7)	90(48.0)	30(50.9)	137(56.8)	
					5(51.2)	30(45.5)	99(47.6)	82(56.2)	
						5(41.6)	137(40.6)	129(55.5)	
						135(8.3)	3(37.9)	122(47.3)	
							26(27.4)	30(41.3)	
								90(22.3)	
								84(18.8)	
3 PUBLIC SERVICE ELECTRIC & GAS CO			27 CLEVELAND ELECTRIC ILLUMINATING CO				90 SOUTHERN SERVICES, INCORPORATED		
4 UNION ELECTRIC COMPANY			30 COMMONWEALTH EDISON COMPANY				92 CAROLINA POWER & LIGHT COMPANY		
5 CINCINNATI GAS & ELECTRIC COMPANY			33 CENTRAL ILLINOIS PUBLIC SERV CO				99 ARIZONA PUBLIC SERVICE COMPANY		
9 DUQUESNE LIGHT COMPANY			36 PENNSYLVANIA POWER & LIGHT CO				104 KENTUCKY UTILITIES COMPANY		
10 ALLEGHENY POWER SERVICE CORP			40 DAYTON POWER & LIGHT COMPANY				113 DUKE POWER COMPANY		
13 KANSAS CITY POWER & LIGHT CO			43 PUBLIC SERVICE CO OF INDIANA				117 ILLINOIS POWER COMPANY		
19 VIRGINIA ELECTRIC & POWER CO			44 AMERICAN ELECTRIC POWER SERV CORP				122 SOUTHERN ELECTRIC GENERATING CO		
20 DETROIT EDISON COMPANY			73 NORTHERN INDIANA PUBLIC SERV CO				129 TENNESSEE VALLEY AUTHORITY		
21 SOUTHERN CALIFORNIA EDISON CO			74 WISCONSIN POWER & LIGHT COMPANY				131 IOWA PUBLIC SERVICE COMPANY		
23 PENNSYLVANIA ELECTRIC COMPANY			82 GEORGIA POWER COMPANY				135 PACIFIC POWER & LIGHT COMPANY		
24 NORTHERN STATES POWER COMPANY			84 COLUMBUS & SOUTHERN OHIO ELEC CO				137 TAMPA ELECTRIC COMPANY		
26 ALABAMA POWER COMPANY			85 INDIANAPOLIS POWER & LIGHT COMPANY						

TABLE F-16: ORDERING OF COAL UNIT FORCED OUTAGE RATES BY CALENDAR YEAR (BY UTILITY)

1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
36(0.6)	20(1.1)	85(2.5)	43(1.9)	104(0.1)	9(0.4)	73(0.4)	113(2.9)	74(0.4)	85(3.8)
92(3.4)	24(5.1)	20(4.6)	92(2.8)	13(3.3)	43(1.8)	113(1.5)	85(3.4)	85(3.4)	74(4.4)
20(4.6)	92(6.6)	73(5.7)	117(3.0)	113(3.5)	113(2.9)	104(1.9)	73(3.4)	131(3.9)	92(4.4)
44(7.4)	129(9.3)	92(8.0)	26(3.1)	85(4.0)	104(3.5)	43(3.2)	9(3.7)	43(5.0)	36(6.5)
30(8.9)	44(13.1)	26(10.3)	20(3.7)	43(4.3)	135(4.2)	85(6.5)	104(4.2)	9(5.7)	135(6.8)
129(9.8)	19(15.4)	129(10.4)	36(4.0)	137(5.6)	13(4.5)	92(6.9)	36(5.2)	36(5.7)	104(6.8)
23(20.0)	30(16.9)	36(10.7)	85(4.2)	24(5.8)	36(4.8)	27(7.9)	10(5.9)	113(6.2)	137(8.6)
	23(22.2)	44(12.1)	9(4.5)	27(6.1)	27(5.4)	137(8.2)	27(7.1)	24(6.4)	131(8.8)
	3(60.4)	30(12.6)	5(5.7)	9(6.3)	20(5.9)	117(8.7)	92(7.2)	92(6.9)	122(9.9)
		10(12.9)	113(5.9)	117(7.6)	117(6.2)	36(9.8)	137(7.5)	104(7.2)	10(10.1)
		4(13.6)	27(6.0)	92(8.1)	85(7.2)	24(10.4)	117(7.8)	117(8.4)	30(10.2)
		19(14.2)	19(6.1)	36(8.2)	73(7.2)	84(11.6)	135(8.1)	27(8.5)	4(10.9)
		99(15.1)	137(6.2)	19(8.7)	24(9.4)	9(12.5)	43(8.5)	90(9.9)	117(11.6)
		137(16.8)	13(9.1)	5(9.0)	44(9.6)	33(13.6)	26(9.5)	10(10.0)	113(12.9)
		113(17.6)	129(11.7)	44(9.8)	30(10.3)	20(14.0)	4(10.2)	73(10.0)	9(13.5)
		3(23.8)	99(11.7)	40(10.3)	92(11.4)	40(14.2)	5(10.4)	44(10.3)	20(14.0)
		23(36.3)	44(14.9)	20(12.2)	99(12.1)	3(15.5)	40(10.9)	4(10.5)	3(14.5)
			30(15.5)	99(13.5)	129(12.9)	44(15.6)	24(11.6)	21(11.0)	82(17.1)
			40(15.8)	30(14.7)	137(12.9)	10(15.7)	90(12.3)	3(11.2)	24(17.8)
			4(19.3)	10(16.2)	40(13.3)	26(15.8)	33(13.7)	135(12.1)	84(18.0)
			23(19.3)	26(16.7)	10(13.6)	30(15.8)	20(14.2)	137(13.7)	73(18.8)
			10(20.1)	73(21.2)	82(14.4)	4(15.9)	122(14.3)	40(14.0)	26(19.3)
			3(25.3)	82(21.6)	33(14.9)	21(18.5)	44(14.7)	5(14.1)	99(22.5)
			73(34.0)	135(22.3)	19(16.9)	129(18.8)	19(16.7)	26(14.6)	19(22.7)
			21(50.1)	129(23.3)	23(17.6)	135(20.4)	84(16.9)	20(16.5)	5(22.8)
				21(23.6)	26(19.6)	13(21.7)	3(17.0)	99(20.5)	129(24.3)
				23(23.9)	3(19.8)	82(23.2)	30(19.4)	82(21.2)	13(26.2)
				4(41.1)	21(21.8)	99(26.6)	21(20.0)	30(23.7)	23(27.6)
				3(96.6)	4(22.4)	19(27.1)	13(21.2)	23(23.9)	
					5(27.2)	23(27.3)	82(21.5)	129(24.5)	
						90(29.9)	23(23.9)	19(25.2)	
						5(42.1)	99(25.0)	13(25.3)	
							129(28.0)	122(27.7)	
								33(28.6)	
								84(34.4)	
3 PUBLIC SERVICE ELECTRIC & GAS CO			27 CLEVELAND ELECTRIC ILLUMINATING CO				90 SOUTHERN SERVICES, INCORPORATED		
4 UNION ELECTRIC COMPANY			30 COMMONWEALTH EDISON COMPANY				92 CAROLINA POWER & LIGHT COMPANY		
5 CINCINNATI GAS & ELECTRIC COMPANY			33 CENTRAL ILLINOIS PUBLIC SERV CO				99 ARIZONA PUBLIC SERVICE COMPANY		
9 DUQUESNE LIGHT COMPANY			36 PENNSYLVANIA POWER & LIGHT CO				104 KENTUCKY UTILITIES COMPANY		
10 ALLEGHENY POWER SERVICE CORP			40 DAYTON POWER & LIGHT COMPANY				113 DUKE POWER COMPANY		
13 KANSAS CITY POWER & LIGHT CO			43 PUBLIC SERVICE CO OF INDIANA				117 ILLINOIS POWER COMPANY		
19 VIRGINIA ELECTRIC & POWER CO			44 AMERICAN ELECTRIC POWER SERV CORP				122 SOUTHERN ELECTRIC GENERATING CO		
20 DETROIT EDISON COMPANY			73 NORTHERN INDIANA PUBLIC SERV CO				129 TENNESSEE VALLEY AUTHORITY		
21 SOUTHERN CALIFORNIA EDISON CO			74 WISCONSIN POWER & LIGHT COMPANY				131 IOWA PUBLIC SERVICE COMPANY		
23 PENNSYLVANIA ELECTRIC COMPANY			82 GEORGIA POWER COMPANY				135 PACIFIC POWER & LIGHT COMPANY		
24 NORTHERN STATES POWER COMPANY			84 COLUMBUS & SOUTHERN OHIO ELEC CO				137 TAMPA ELECTRIC COMPANY		
26 ALABAMA POWER COMPANY			85 INDIANAPOLIS POWER & LIGHT COMPANY						

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Appendix G
UNITS IN STUDY

TABLE G-1: NAMEPLATE RATING AND COMMERCIAL OPERATION DATE(BY STATE & UTILITY)

STATE	NUCLEAR			COAL		
	NAME	NAMEPLATE RATING	C.O. DATE	NAME	NAMEPLATE RATING	C.O. DATE
ALABAMA						
	TENNESSEE VALLEY AUTHORITY					
	BROWNS FERRY(#1)	1152	10/15/73	WIDOWS CREEK(#7)	575	9/25/60
	BROWNS FERRY(#2)	1152	8/28/74	WIDOWS CREEK(#8)	550	6/28/64
				COLBERT(#5)	550	10/07/62
	SOUTHERN ELECTRIC GENERATING COMPANY					
	ALABAMA POWER COMPANY			E C GASTON(#5)	952	6/05/74
				BARRY(#4)	404	12/31/69
				BARRY(#5)	789	7/24/71
				GORGAS(#2)	789	6/26/72
ARKANSAS						
	ARKANSAS POWER & LIGHT COMPANY					
	ARKANSAS NUCLEAR ONE	902	12/19/74			
CALIFORNIA						
	SACRAMENTO MUNICIPAL UTILITY DISTRICT					
	RANCHO SECO(#1)	963	10/13/74			
	SOUTHERN CALIFORNIA EDISON COMPANY					
	SAN ONOFRE(#1)	450	7/16/67			
CONNECTICUT						
	NORTHEAST UTILITIES SERVICE COMPANY					
	CONN. YANKEE(#1)	600	8/07/67			
	MILLSTONE(#1)	662	12/28/70			
	MILLSTONE(#2)	909	12/26/75			
FLORIDA						
	TAMPA ELECTRIC COMPANY					
				BIG BEND(#1)	450	8/14/70
				BIG BEND(#2)	446	4/06/73
				GANNON(#6)	414	9/22/67
GEORGIA						
	GEORGIA POWER COMPANY					
	HATCH(#1)	850	12/21/75	BOWEN(#1)	806	7/04/71
				BOWEN(#2)	789	1/01/74
				BOWEN(#3)	884	12/11/74
				BOWEN(#4)	952	11/14/75
				HAMMOND(#4)	578	6/26/70
				HARLEE BRANCH(#3)	544	6/13/68
				HARLEE BRANCH(#4)	544	5/15/69
				YATES(#6)	404	7/23/74
				YATES(#7)	404	4/08/74

Table G-1 (continued)

STATE	NAME	NAMEPLATE RATING	C.O. DATE	NAME	NAMEPLATE RATING	C.O. DATE
ILLINOIS						
	CENTRAL ILLINOIS PUBLIC SERVICE COMPANY					
	COMMONWEALTH EDISON COMPANY			COFFEEN(#2)	617	9/16/72
	DRESDEN(#2)	828	4/13/70	KINCAID(#1)	660	3/08/67
	DRESDEN(#3)	828	7/22/71	KINCAID(#2)	660	3/22/68
	QUAD-CITIES(#1)	828	4/12/72	WILL COUNTY(#4)	598	4/17/63
	QUAD-CITIES(#2)	828	5/23/72			
	ZION(#1)	1085	6/19/73			
	ILLINOIS POWER COMPANY			BALDWIN(#1)	623	7/13/70
				BALDWIN(#2)	635	5/21/73
				BALDWIN(#3)	635	4/27/75
INDIANA						
	AMERICAN ELECTRIC POWER SERVICE CORP			BREED(#1)	450	8/01/60
				TANNERS CREEK(#4)	580	7/01/64
	INDIANAPOLIS POWER & LIGHT COMPANY			PETERSBURG(#2)	471	12/25/69
				ELMER W STOUT(#7)	471	5/24/73
	NORTHERN INDIANA PUBLIC SERVICE COMPANY			BATILLY(#8)	422	7/31/68
				MICHIGAN CITY(#12)	520	5/31/74
				SCHAFER(#14)	520	12/31/76
	PUBLIC SERVICE COMPANY OF INDIANA			CAYUGA(#1)	531	8/07/70
				CAYUGA(#2)	531	5/10/72
				GIBSON(#2)	618	4/16/75
IOWA						
	IOWA ELECTRIC LIGHT & POWER COMPANY					
	DUANE ARNOLD(#1)	565	6/22/74			
	IOWA PUBLIC SERVICE COMPANY			GEORGE NEAL(#3)	550	10/09/75
KANSAS						
	KANSAS CITY POWER & LIGHT COMPANY			LA CYGNE(#1)	873	5/31/73
KENTUCKY						
	AMERICAN ELECTRIC POWER SERVICE CORP			BIG SANDY(#2)	816	7/24/69
	KENTUCKY UTILITIES COMPANY			E W BROWN(#3)	440	7/19/71
				GHENT(#1)	512	12/16/73
	TENNESSEE VALLEY AUTHORITY			PARADISE(#1)	704	8/28/63
				PARADISE(#2)	704	3/15/63
				PARADISE(#3)	1150	5/20/69
MAINE						
	YANKEE ATOMIC ELECTRIC COMPANY					
	MAINE YANKEE(#1)	810	11/08/72			

Table G-1 (continued)

STATE	NAME	NAMEPLATE RATING	C.O. DATE	NAME	NAMEPLATE RATING	C.O. DATE
MARYLAND						
	BALTIMORE GAS & ELECTRIC COMPANY					
	CALVERT CLIFFS(#1)	918	5/08/75			
MASSACHUSETTS						
	BOSTON EDISON COMPANY					
	PILGRIM(#1)	678	12/09/72			
MICHIGAN						
	AMERICAN ELECTRIC POWER SERVICE CORP					
	D C COOK(#1)	1152	2/10/75			
	CONSUMERS POWER COMPANY					
	PALISADES(#1)	812	12/31/71			
	DETROIT EDISON COMPANY					
				MONROE(#1)	750	5/03/71
				MONROE(#2)	850	1/14/73
				MONROE(#3)	823	3/11/73
				MONROE(#4)	750	3/16/74
				ST. CLAIR(#7)	470	3/05/69
				TRENTON CHANNEL(#9)	440	1/16/68
MINNESOTA						
	NORTHERN STATES POWER COMPANY					
	MONTICELLO(#1)	569	3/05/71	KING(#1)	598	4/15/68
	PRAIRIE ISLAND(#1)	593	12/07/73			
	PRAIRIE ISLAND(#2)	593	12/21/74			
				SHERBURNE CO.(#1)	720	5/01/76
MISSISSIPPI						
	SOUTHERN SERVICES, INCORPORATED					
				WATSON(#5)	578	4/02/73
MISSOURI						
	KANSAS CITY POWER & LIGHT COMPANY					
	UNION ELECTRIC COMPANY					
				HAWTHORN(#5)	515	5/31/69
				LABADIE(#1)	621	6/30/70
				LABADIE(#2)	621	6/25/71
				LABADIE(#3)	621	8/26/72
				LABADIE(#4)	621	6/15/73
				RUSH ISLAND(#1)	555	3/31/76
				SIOUX(#1)	550	5/17/67
				SIOUX(#2)	550	5/14/68
NEBRASKA						
	NEBRASKA PUBLIC POWER DISTRICT					
	COOPER(#1)	836	5/10/74			
	OMAHA PUBLIC POWER DISTRICT					
	FORT CALHOUN(#1)	502	8/25/73			
NEVADA						
	SOUTHERN CALIFORNIA EDISON COMPANY					
				MOHAVE(#1)	755	11/27/70
				MOHAVE(#2)	755	7/21/71

Table G-1 (continued)

STATE	NAME	NAMEPLATE RATING	C.O. DATE	NAME	NAMEPLATE RATING	C.O. DATE
NEW JERSEY						
	CENTRAL JERSEY POWER & LIGHT COMPANY					
	OYSTER CREEK(#1)	650	12/23/69			
	PUBLIC SERVICE ELECTRIC & GAS COMPANY			HUDSON(#2)	660	12/18/68
NEW MEXICO						
	ARIZONA PUBLIC SERVICE COMPANY			FOUR CORNERS(#4)	755	5/22/69
				FOUR CORNERS(#5)	755	4/06/70
NEW YORK						
	CONSOLIDATED EDISON COMPANY OF NY INC					
	INDIAN POINT(#2)	1022	6/26/73			
	NIAGARA MOHAWK POWER CORPORATION					
	NINE MILE POINT(#1)	640	11/09/69			
	POWER AUTHORITY OF STATE OF NEW YORK					
	FITZPATRICK(#1)	883	7/01/75			
	INDIAN POINT (#3)	965	4/25/76			
	ROCHESTER G&E					
	GINNA(#1)	517	12/02/69			
NORTH CAROLINA						
	CAROLINA POWER & LIGHT COMPANY			ROXBORO(#1)	411	4/30/66
	BRUNSWICK(#2)	867	4/29/75	ROXBORO(#2)	657	3/10/68
				ROXBORO(#3)	700	3/23/73
	DUKE POWER COMPANY			BELEWS CREEK(#1)	1080	6/21/74
				BELEWS CREEK(#2)	1176	12/13/75
				CLIFFSIDE(#5)	571	5/23/72
				MARSHALL(#3)	650	5/15/69
				MARSHALL(#4)	650	5/01/70
OHIO						
	AMERICAN ELECTRIC POWER SERVICE CORP ,			CARDINAL(#1)	590	2/01/67
				CARDINAL(#2)	590	7/01/67
				GEN. J. M. GAVIN(#1)	1300	1/01/74
				MUSKINGUM RIVER(#5)	591	9/20/68
	CINCINNATI GAS & ELECTRIC COMPANY			WALTER C BECKJORD(#6)	461	5/15/69
				MIAMI FORT(#7)	500	5/01/75
	CLEVELAND ELECTRIC ILLUMINATING COMPANY			AVON LAKE(#9)	680	8/06/70
				EASTLAKE(#5)	626	7/01/72
	COLUMBUS & SOUTHERN OHIO ELECTRIC COMPANY			CONESVILLE(#4)	800	6/08/73
				CONESVILLE(#5)	403	11/24/76
	DAYTON POWER & LIGHT COMPANY			J M STUART(#1)	610	4/12/71
				J M STUART(#2)	610	8/31/70
				J M STUART(#3)	610	3/20/72
				J M STUART(#4)	560	5/08/74
NO SYSTEM ASSIGNMENT				SAMMIS(#6)	623	1/15/69
				SAMMIS(#7)	680	7/17/71

Table G-1 (continued)

STATE	NAME	NAMEPLATE RATING	C.O. DATE	NAME	NAMEPLATE RATING	C.O. DATE
OREGON						
	PORTLAND GENERAL ELECTRIC COMPANY TROJAN(#1)	1216	5/22/76			
PENNSYLVANIA						
	ALLEGHENY POWER SERVICE CORPORATION			HATFIELD'S FERRY(#1)	576	11/01/69
				HATFIELD'S FERRY(#2)	576	10/16/70
				HATFIELD'S FERRY(#3)	576	11/04/71
	DUQUESNE LIGHT COMPANY			CHESWICK(#1)	565	6/07/70
	METROPOLITAN EDISON COMPANY					
	THREE MILE ISLAND(#1)	871	9/02/74			
	PENNSYLVANIA ELECTRIC COMPANY			CONEMAUGH(#1)	936	5/21/70
				CONEMAUGH(#2)	936	5/27/71
				KEYSTONE(#1)	936	6/18/67
				KEYSTONE(#2)	936	6/16/68
	PENNSYLVANIA POWER & LIGHT COMPANY			BRUNNER ISLAND(#2)	405	9/27/65
				BRUNNER ISLAND(#3)	790	6/13/69
				MONTOUR(#1)	721	11/27/71
	PHILADELPHIA ELECTRIC COMPANY			HOMER CITY(#1)	600	7/31/69
	PEACH BOTTOM(#2)	1152	7/05/74			
	PEACH BOTTOM(#3)	1152	12/23/74	HOMER CITY(#2)	600	12/11/69
				MONTOUR(#2)	736	2/15/73
SOUTH CAROLINA						
	CAROLINA POWER & LIGHT COMPANY					
	H B ROBINSON(#2)	769	9/26/70			
	DUKE POWER COMPANY					
	OCONEE(#1)	887	7/16/73			
	OCONEE(#2)	887	9/09/74			
	OCONEE(#3)	887	12/16/74			
TENNESSEE						
	TENNESSEE VALLEY AUTHORITY			BULL RUN(#1)	950	2/10/66
VERMONT						
	YANKEE ATOMIC ELECTRIC COMPANY					
	VT. YANKEE(#1)	563	9/20/72			
VIRGINIA						
	VIRGINIA ELECTRIC & POWER COMPANY			CHESTERFIELD(#6)	694	5/03/69
	SURRY(#1)	848	3/10/73			
	SURRY(#2)	848	7/04/72			
WASHINGTON						
	PACIFIC POWER & LIGHT COMPANY			CENTRALIA(#1)	665	8/07/71
				CENTRALIA(#2)	665	7/11/72

Table G-1 (continued)

STATE	NAME	NAMEPLATE RATING	C.O. DATE	NAME	NAMEPLATE RATING	C.O. DATE
WEST VIRGINIA						
	ALLEGHENY POWER SERVICE CORPORATION			FORT MARTIN(#1)	576	5/30/67
				FORT MARTIN(#2)	576	9/20/68
				HARRISON(#1)	684	10/24/72
				HARRISON(#2)	684	10/29/73
				HARRISON(#3)	684	11/14/74
	AMERICAN ELECTRIC POWER SERVICE CORP			AMOS(#1)	816	9/01/71
				AMOS(#2)	816	6/06/72
				MITCHELL(#1)	816	4/22/70
				MITCHELL(#2)	816	3/18/71
				PHIL SPORN(#5)	496	12/01/60
	VIRGINIA ELECTRIC & POWER COMPANY			MT STORM(#1)	570	9/20/65
				MT STORM(#2)	570	6/24/66
				MT STORM(#3)	522	12/08/73
WISCONSIN						
	WISCONSIN ELECTRIC POWER COMPANY					
	POINT BEACH(#1)	524	11/06/70			
	POINT BEACH(#2)	524	8/02/72			
	WISCONSIN POWER & LIGHT COMPANY					
	WISCONSIN PUBLIC SERVICE CORPORATION			COLUMBIA ENERGY(#1)	511	3/15/75
	KEWAUNEE(#1)	560	6/16/74			
WYOMING						
	PACIFIC POWER & LIGHT COMPANY			JIM BRIDGER(#1)	500	8/06/74
				JIM BRIDGER(#2)	508	7/10/75
				JIM BRIDGER(#3)	500	8/06/74

**UPDATE REPORT ON THE PERFORMANCE OF 400- MEGAWATT
AND LARGER NUCLEAR AND COAL-FIRED
GENERATING UNITS**

PERFORMANCE THROUGH 1977

**United States
Department of Energy
Washington, D.C. 20585**

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