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Proposed Changes to Generating Capacity 1980-1989 for the Contiguous United States

*As Projected by the
Regional Electric Reliability Councils
in Their April 1, 1980
Long-Range Coordinated Planning Reports
to the Department of Energy*

December 1980

**U.S. Department of Energy
Economic Regulatory Administration
Division of Power Supply and Reliability**

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Preface

This report provides a detailed list of changes to U.S. generating capacity projected for 1980-89, and summaries of the data under various categories. The information has been compiled from the April 1, 1980 Coordinated Planning Reports filed with the Economic Regulatory Administration by the Regional Electric Reliability Councils. An estimate of the possible range of fossil fuel requirements is provided in Section III of the report.

Appendix 1 provides the most recent completion dates for near-term nuclear units.

Appendix 2 discusses generating unit Construction Schedules.

U.S. DEPARTMENT OF ENERGY
ECONOMIC REGULATORY ADMINISTRATION

PROPOSED CHANGES TO GENERATING CAPACITY 1980-1989

(Contiguous United States)

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H-3	MAAC
H-4	MAIN
H-5	MARCA
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H-8	SWPP
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Appendix 1 Updated Completion Schedules of Near-term Nuclear Units

Appendix 2 Generating Unit Construction Schedules

I- Summary

This report summarizes the changes in generating capacity projected for 1980-1989 by the Regional Electric Reliability Councils 1/ in their April 1, 1980, Coordinated Long-Range Planning Reports to the Department of Energy. The Council projections of peak demands, energy requirements, total capacity and reserve margins for the same decade are summarized and discussed in a separate report by the Division of Power Supply and Reliability. 2/

Tables 1 through 6 herein provide summaries of the information on projected generating unit construction, retirements and changes, in several different categories and groupings. Table H of this report itemizes data on the individual generating unit projections as stated in Item 2B of each Reliability Council report.

The new generating units to be completed by the end of 1989 total 699 3/, representing 259,490 megawatts. 4/ This total includes 10 windpower and one fuel cell installations totaling 48.5 MW to be completed by the end of 1989. Table 2 shows that 321 units totaling 13,222 MW are to be retired.

In addition to capacity changes due to installation of new units and retirement of older ones, there are capacity changes due to "upratings" and "deratings." An "uprating" is an increase in the generating capacity of a unit previously installed. Upratings are not unusual in the case of nuclear units, which may be operated initially, for some time, at less than the design capacity rating. After experience is gained and tests have been conducted, and it is deemed safe to increase the output level, a unit may be "uprated" to a higher level. Changes in the rated capacity assigned to fossil and hydro units may result from operating experience, actual physical changes made after a unit is in commercial operation, water conditions, changes in fuel quality or other reasons.

1/ See maps in Section II for Council acronyms and geographic boundaries.

2/ Electric Power Supply and Demand For The Contiguous U.S.: 1980-1989. DOE/RG-0036 (Rev. 1) July 1980. U.S. Department of Energy, Economic Regulatory Administration.

3/ Table 1 shows 702 units due to double counting of 3 units shared by ERCOT and SWPP. (Coleto Creek No. 2, Karnack No. 1, & Oklaunion No. 1). The capacity of these units is properly accounted for in Table 1.

4/ In this total, all units are included at the capacity assigned when they first go into service.

FIGURE 1

*SUMMARY OF PROJECTED CHANGES IN CAPACITY
CONTIGUOUS UNITED STATES
1980 - 1989 INCLUSIVE*

SEE PAGE 1 OF TABLE 1 IN SECTION V OF THIS REPORT

FIGURE 2
**PROJECTED CAPACITY OF NEW GENERATING UNITS
 CONTIGUOUS UNITED STATES
 BY YEARS 1980 - 1989**

NOTE 1- The year by year additions of nuclear capacity shown here are those projected by Reliability Councils in their April 1, 1980 reports to DOE. Appendix I of this report shows how the near term nuclear schedules have changed.

FIGURE 3

PROJECTED GENERATING CAPACITY RETIREMENTS CONTIGUOUS UNITED STATES BY YEARS 1980 - 1989

SEE TABLE 2 OF SECTION V IN THIS REPORT

FIGURE 4

PROJECTED GENERATING CAPACITY UPRATINGS CONTIGUOUS UNITED STATES BY YEARS 1980 - 1989

SEE TABLE 3 OF SECTION V IN THIS REPORT

FIGURE 5

PROJECTED GENERATING CAPACITY DERATINGS CONTIGUOUS UNITED STATES BY YEARS 1980 - 1989

SEE TABLE 4 OF SECTION V IN THIS REPORT

In Section V, Table 1 summarizes the capacity initially assigned to the new generating units; Retirements are summarized in Table 2, Upratings in Table 3, and Deratings in Table 4. Table 1.1 below combines the totals of new units, retirements, upratings and deratings to obtain the net increases in number of units and generating capacity for 1980-1989, and Table 1.2 shows the corresponding information as projected a year earlier for 1979-1988. These two tables show that the total capacity increase projected for 1980-89 is 31,723 MW less than the total increase projected for 1979-88.

Table 1.1 - Projected Changes in Generating Capacity
1980-1989
Contiguous U.S.

	<u>No. of Units</u>	<u>Total MW</u>
	<u>1/</u>	
New Units Added	699	259,490
Upratings	<u>2/</u>	2,810
Retirements	321	(13,222)
Deratings	<u>2/</u>	(4,195)
Net increase	378	244,883

The above table includes 11 installations of wind-powered and fuel cell units totaling 48.5 MW.

For purposes of comparison, Table 1.2 below shows the changes in generating capacity that had been projected by the Reliability Councils as of April 1, 1979, for the period 1979-1988.

Table 1.2 - Projected Changes in Generating Capacity
1979-1988
Contiguous U.S.

	<u>No. of Units</u>	<u>Total MW</u>
New Units Added <u>3/</u>	716	285,418
Upratings	<u>2/</u>	7,230
Retirements	(340)	(11,602)
Deratings	<u>2/</u>	(4,440)
	376	276,606

1/ See footnote 3 on page 1 of this report.

2/ The number of units is not meaningful, because a unit may have its rating changed more than once in the ten-year period under review.

3/ Includes windpower installations totaling 55 MW.

Table 1.3 compares the energy sources planned for new generating capacity, to be constructed during the 1980-89, with those that were projected for the period 1979-88. Coal-fired capacity has decreased by 1144 MW and nuclear capacity by 17413 MW. As a percentage of total additional capacity projected, coal-fired capacity has increased 4.32% and nuclear capacity has decreased 2.86%. It therefore appears that the national policy of increased emphasis on the use of coal for electric power generating is being implemented. In continuation of the trend evident in the 1979-1988 projections, the construction of oil fired capacity is to decrease. No new steam units are projected to use oil as a primary fuel, and the combustion turbine capacity planned is less than that projected a year earlier, both in megawatts and as a percentage of total capacity projected; therefore, the use of oil should decrease.

Experience leads to the belief that the completion dates projected for the nuclear units in Table H will in many instances not be met. More often than not, the actual commercial operating date of a nuclear unit is later than that projected in the Reliability Council reports. Other units also experience delays that result in the actual commercial operating date being later than that announced beforehand. When the delays are purposeful on the part of the utility constructing a unit, they may be attributed to, among other causes, expectations of lower demands or to difficulty in continuing construction. If units are delayed and lower demands do materialize, fuel consumption will be less than anticipated and reliability will not suffer. If lower demands do not materialize, and units are delayed, existing units will be operated to a greater extent than originally planned, possibly more oil will be used in peaking units, and system reliability will decrease.

When consideration is being given to the purposeful delay or cancellation of generating capacity, whether by regulatory authority or by a utility, several factors deserve careful evaluation. Among these are the possibility that load growth may not decline to the extent postulated; that construction of a generating unit can be abandoned more readily than it can be resumed; that delay of construction results in greater cost when a unit is finally completed; that preservation ("mothballing") of a partially-completed unit involves non-productive costs and man-hours.

TABLE 1.3
Energy Sources for New Generating Units
As Projected By The Regional Reliability Councils

Energy Source		Projected 4/1/79 ^{1/} For 1979-88		Projected 4/1/80 For 1980-89	
Primary Fuel	Alternate Fuel	Capacity To Be Added		Capacity To Be Added	
		MW	%	MW	%
Coal	None	132,445	46.41	125,190	48.24
Coal	Oil	2,068	0.72	7,141	2.75
Coal	Nat. Gas	0	0	338	0.13
Coal	Multiple	530	0.19	980	0.38
Coal	N.R. ^{2/}	1,200	0.42	1,450	0.56
Subtotal		136,243	47.74	135,099	52.06
Oil	None	15,470	5.42	4,538	1.74
Oil	N.R.	0	0	90	0.03
Oil	Coal	1,220	0.43	1,240	0.48
Oil	Nat. Gas	690	0.24	1883	0.73
Subtotal		17,380	6.09	7751	2.98
Nat. Gas	None	0	0	190	0.07
Nat. Gas	N.R.	366	0.13	165	0.06
Nat. Gas	Oil	0	0	799	0.31
Subtotal		366	0.13	1154	0.45
Hydro	None	7,127	2.50	7,762	2.99
Hydro	P.S. ^{3/}	7,376	2.58	7,288	2.81
Subtotal		14,503	5.08	15,050	5.80
N.R.	N.R. ^{4/}	4,319	1.51	2,363	0.91
N.R.	None	384	0.14	0	0
Subtotal		4,703	1.65	2,363	0.91
Wood	None	-	-	88	0.03
Wood	N.R.	-	-	41	0.02
Wood	Refuse	-	-	40	0.02
Refuse	None	160	0.06	1,635	0.63
Refuse	Oil	32	0.01	32	0.01
Subtotal		192	0.07	1,836	0.71
Geothermal	None	1,820	0.64	1,582	0.61
Wind	None	5/	5/	38	0.02
Other		5/	5/	1,874	0.72
Nuclear	None	110,156	38.60	92,743	35.74
Total		285,363	100.00	259,490	100.00

^{1/} From Additions to Generating Capacity 1979-1988 for the Contiguous United States. DOE/ERA-0020/1 Rev. 1 Oct. 1979, Page 4. Does not include 55 MW of wind-power capacity.

^{2/} N.R. = Not reported.

^{3/} P.S. = Pumped storage.

^{4/} Fossil units for which primary and secondary fuels are not reported (Section V, Table 5, page 2).

^{5/} This category was not included in this Table for 1979-1988

Table 1.4
Summary of Proposed New Capacity By Type
As Proposed By The Regional Reliability Councils

<u>Type of Unit</u>	<u>For 1979-1988 1/</u>		<u>For 1980-1989</u>	
	<u>MW</u>	<u>%</u>	<u>MW</u>	<u>%</u>
Fossil Steam	144,934	50.79	142,401	54.88
Nuclear Steam	110,156	38.60	92,743	35.74
Combustion Turbine	7,385	2.58	4,890	1.88
Combined Cycle	4,050	1.41	752	0.29
Conventional Hydro	7,127	2.49	7,762	2.99
Pumped Storage Hydro	7,376	2.58	7,288	2.81
Diesel	102	0.03	149	0.06
Unconventional	2,246 2/	0.79	1,631 3/	0.63
Not Reported	1,987	0.69	1,874	0.72
<hr/>				
Total	285,363	100.00	259,490	100.00

1/ See footnote 1 on p. 9 of this report.

2/ Includes fuel cells; refuse-fueled units and geothermal units.

3/ Includes geothermal, fuel cell, and wind-powered units.

II - Maps and Location Codes

A. Maps

The following maps are included to provide a geographical frame of reference for the projected units tabulated in this report:

1. Regional Electric Reliability Council Areas

The Council boundaries were established by the Council members when the Councils were organized, and have undergone only minor revisions since. The map is intended only as a general guide, not to define in a legal sense the area and boundary of any Council.

2. Electric Regions In The United States

The 29 Electric Regions in the contiguous United States are those used by the Economic Regulatory Administration (ERA) as viable areas for purposes of analysis of electric power supply reliability. These regions are a slight modification of the groupings established by ERA for the purpose of implementing the Power Plant and Industrial Fuel Use Act of 1978 (PIFUA) (see Federal Register, Friday, October 19, 1979, Part IX, pp. 60697, 60698).

3. Subregion Boundaries of The Southeastern Electric Reliability Council (SERC)

This map is intended to provide a clearer general representation of the four sub-areas of SERC. The boundaries shown are not intended to be legally-defined service areas.

4. Western Systems Coordinating Council

This map is intended to provide a clearer general representation of the sub-areas of WSCC. The boundaries shown are not intended to be legally-defined service areas. The area shown as I-Northwest Power Pool, includes the approximate service areas of the Canadian members of WSCC for completeness, but this report deals only with U.S. utilities. In the Electric Region Map, the Northwest Power Pool is shown as two separate areas (25 and 30). ERA is considering combining Electric Regions 25 and 30 into a single Region, and combining with it part of Region 24.

B. Location Codes

In the 9 Council reports the location of each unit is given in terms of standard State and County codes. These location codes are not given in Table H of this report but the State abbreviation is given. For those who wish to identify the county locations given in the Council reports, their numerical coding can be found in the National Bureau of Standards Federal Information Processing Standards Publication (FIPS PUB 6-3, December 15, 1979). The publication may be obtained from:

National Technical Information
Service (NTIS)
U.S. Department of Commerce
Washington, D. C. 22161

DEPARTMENT OF ENERGY - ENERGY INFORMATION ADMINISTRATION

Electric Regions in the United States

June 1, 1980 *

* First revision of July 1, 1979 map.

Reliability Council

- ECAR -East Central Area Reliability Coordination Agreement
- ERCOT -Electric Reliability Council of Texas
- MAAC -Mid-Atlantic Area Council
- MAIN -Mid-America Inter-pool Network
- MARCA -Mid-Continent Area Reliability Coordination Agreement
- NPCC -Northeast Power Coordinating Council
- SERC -Southeastern Electric Reliability Council
- SWPP -Southwest Power Pool
- WSCP -Western Systems Coordinating Council

Electric Region

ECAR

Identification

- 1 Allegheny Power System (APS)
- 2 American Electric Power System (AEP)
- 13 Central Area Power Coordination Group (CAPCO)
- 14 Cincinnati, Columbus, Dayton Group (CCD)
- 15 Kentucky Group
- 16 Indiana Group - All Indiana Utilities except I&M Electric Co.
- 18 Michigan Electric Coordinated Systems (MECS)
- 23 Texas Interconnected Systems Group (TIS)

5

MAAC

Pennsylvania-New Jersey-Maryland Interconnection (PJM)

MAIN

Commonwealth Edison Co.
Illinois-Missouri Group (ILLMO)
Wisconsin-Upper Michigan Systems Group (WJMS)

MARCA

Mid-Continent Area Power Pool (MAPP)

NPCC

New England Power Pool (NEPOOL)
New York Power Pool (NYPP)

SERC

Florida Coordinating Group (FCG)
Southern Company Group
Tennessee Valley Authority Group (TVA)
Virginia-Carolinas Group (VACAR)

SWPP

Middle South Utilities Group
Gulf States Group
Missouri-Kansas Group (MOKAN)
Oklahoma Group

WSCP

Rocky Mountain Power Pool (RMPP)
Northwest Power Pool (NWPP)
Except for Idaho-Utah Group
Arizona-New Mexico Group
Southern California-Nevada Group
Northern California-Nevada Group
Idaho-Utah Group of the Northwest Power Pool

SUBREGION BOUNDARIES OF THE
SOUTHEASTERN ELECTRIC RELIABILITY COUNCIL (SERC)

OCTOBER 1, 1973

WESTERN SYSTEMS COORDINATING COUNCIL

GENERAL LOAD AREAS

- I Northwest Power Pool Area
- II Rocky Mountain Power Area
- III Arizona New Mexico Power Area
- IV California-Nevada Power Area

0 100 200 300 MILES
SCALE

This map has been reproduced from WSCC "Coordinated Bulk Power Supply Program" Report dated April 1, 1980 (ERA-411)

III. FOSSIL FUEL REQUIREMENTS FOR 1985

SUMMARY

This analysis presents a possible range of fossil fuel requirements for 1985, based on a number of assumptions stated in the study. Table A below summarizes the results of integrating all the assumptions. The minimum requirement for oil and gas occurs for the following combination of circumstances:

Energy Growth rate to 1985 = minimum = 2.46%
 Coal Capacity operates at 0.60 average annual capacity factor
 Hydro Capacity operates at 0.549 average annual capacity factor
 All nuclear capacity projected in April 1980 for 1985 operation is available.

Then, the coal requirement = 783,000,000 tons
 the oil requirement = 97,000,000 bbl
 the gas requirement = 825,000,000 Mcf

The maximum requirement for oil and gas occurs under the following combination of circumstances:

Energy Growth rate to 1985 = maximum = 4.44%
 Coal Capacity operates at 0.50 average annual capacity factor
 Hydro Capacity operates at 0.515 average annual capacity factor
 No new nuclear units are licensed to operate beyond those licensed as of December 1, 1980.

Then, the coal requirement = 652,000,000 tons
 the oil requirement = 723,000,000 bbl
 the gas requirement = 6,125,000,000 Mcf

TABLE A
ENERGY AND FUEL USE 1985

GENERAL SUMMARY

CASE	GROWTH RATE %	1985 ENERGY MWH x 10 ⁶	FOSSIL ENERGY			NON FOSSIL MWH x 10 ⁶	FUEL QUANTITY		
			COAL MWH	OIL x 10 ⁶	GAS		COAL 10 ⁶ Tons	OIL 10 ⁶ BBL	GAS 10 ⁶ Mcf
H 1	4.44	2909	1597	307	425	580	783	530	4,496
H 2	4.44	2909	1597	186	256	870	783	321	2,708
a/H 3	4.44	2909	1331	419	579	580	652	723	6,125
H 4	4.44	2909	1331	297	411	870	652	513	4,348
L 1	3.46	2601	1597	178	246	580	783	307	2,602
b/L 2	2.46	2601	1597	56	78	870	783	97	825
L 3	2.46	2601	1331	290	400	580	652	501	4,232
L 4	2.46	2601	1331	168	232	870	652	290	2,454

a/ H 3 Largest Energy Requirement, Smallest amount of Coal Energy, and
Smallest amount of Non-Fossil Energy Production
Results in Largest Use of Oil and Gas

b/ L 2 Smallest Energy Requirement, Largest amount of Coal Energy, and
Largest amount of Non-Fossil Energy Production
Results in Smallest Use of Oil and Gas

DETAILS OF FOSSIL FUEL REQUIREMENTS FOR 1985

Fossil fuel requirements during the decade 1980-1989 will be determined by the demand for electric energy, and various other factors including the "mix" of types and sizes of generating units, economics, availability of water for hydro-electric plants and Federal policies regarding nuclear and fossil fuel. The number of factors involved, their variability and the complexity of their interactions, make it doubtful that year-by-year projections of the exact amounts of fuel of different types would be correct. It is useful, however, to establish a range of approximate magnitudes of fossil fuel quantities needed. This is done below, for the year 1985.

The general pattern followed is to establish the total annual electric energy requirement, determine the contributions from hydro, nuclear, geothermal and other sources, 1/ and assume that the remainder will come from fossil sources. The fossil sources are then subdivided into coal, petroleum and natural gas. No claim is made that the projections will be fulfilled exactly, but it is believed that a reasonable range is provided within which actual fuel requirements will fall.

It is considered highly probable that on a national scale the marginal fuels will be those of a fossil nature. That is, any variation in total national energy needs will have little effect on the production of electricity by hydro, nuclear and other sources. All generation above the total produced by these sources will probably come from fossil fuels, and will be very large in comparison to generation from non-fossil sources. Therefore, the energy to be supplied by nuclear and hydro-electric plants, geothermal plants, refuse-fired, woodburning, solar energy or other sources can be computed 2/ independently of the level of total national generation. In an analysis of specific regions the "mix" of capacity, and local operating conditions, could have significant effects; but at the national level these effects tend to be averaged out.

The fossil fuel requirements for production of electric energy in 1985 will depend upon several factors. These are:

1. Total requirement for electric energy generation.
2. Electric energy produced by non-fossil sources.
3. The capability of the fossil-based units for burning the different fossil fuels.
4. The availability of the different fossil fuels.

1/ Solar, windpower, refuse, wood waste, biomass

2/ It is assumed these sources will be utilized to the maximum extent practicable.

5. The relative costs of the different fossil fuels.
6. The efficiencies of the different types of units that use fossil fuels.
7. The relative requirements for so-called "base load" and "peaking" energy. This factor is probably better described by the term "load pattern".
8. Environmental restrictions affecting use of coal.

Each of the factors in the above list is affected by regional considerations. If each of the elements were to be considered on a regional basis in order to determine regional fossil fuel requirements, the fuel totals resulting for the U.S. would probably be more accurate than if an over-all national approach was to be used. However, the manpower and time requirements for a detailed regional analysis and the data requirements, preclude an analysis of each region at this time. In recognition of the inexact nature of the nation-wide approach, the fuel projections presented here must be regarded as approximations. However, the nation-wide analysis does have the advantage that it probably provides for mutual cancellation of some of the inaccuracies that would be embodied each of regional approaches.

In a determination of the seven factors listed, and in integrating them to obtain the fuel quantities projected, various assumptions are necessary. These are discussed below.

1. Total requirement for electric energy generation

The total electric energy requirement in 1985 cannot be stated at this time with 100% accuracy. It is only possible to establish a range within which that requirement can reasonably be expected to fall.

It is believed that the upper end of this possible range of values is the total of projections reported by the nine Regional Electric Reliability Councils in their annual reports to ERA. This value is 2,909,107 Gwh. It represents an average annual increase from 1979 to 1985 of 4.44%. This range is not significantly different from the 4.37% average annual increase experienced from 1970 to 1979, but it does appear higher than what can realistically be expected for 1980-1985.

An extreme lower bound to the range of possible values would be the rate of increase experienced for the first 47 weeks of 1980 over the corresponding period of 1979. This increase of 1.4%, if applied to 1979 requirements and extended, would give 2,442,883 Gwh as the 1985 requirement. This magnitude of load is regarded as being unrealistically low for use in fuel computations.

An intermediate value would be obtained by the use of the EIA projection of 3.2% as the annual increase from 1978 to 1995. This growth rate, applied to the 1979 requirements, yields 2,714,895 Gwh as the 1985 energy requirement.

The ERA estimate of about 2.1% annual energy growth from 1979 to 1983, coupled with the EIA 3.2% rate, yields 2,600,879 Gwh for 1985.

The four estimates cited above, expressed as a percentage of the 1979 energy requirement, are tabulated below.

Table 1
Range of Possible Energy Requirements in 1985

<u>Source</u>	<u>Annual % Increase</u>	<u>1985 Gwh</u>	<u>Gwh Increase over 1979</u>	<u>1985 Gwh as % of 1979 Gwh</u>
Councils	4.44	2,909,107	661,735	129.44
EIA	3.2	2,714,895	467,523	120.80
ERA and EIA	2.46	2,600,879	353,507	115.73
Current Rate <u>1/</u>	1.4	2,442,883	195,511	108.69

1/ This is shown here for completeness but is considered unrealistic.

In view of the uncertainties attached to projections of future electric power use, especially for a period 5 years into the future, it appears prudent to discuss fuel requirements in terms of a range rather than a single number. As a starting point, the range of energy projections is taken as 2,600,879 Gwh to 2,909,000 Gwh, with a median value of 2,714,895 Gwh.

2. Hydroelectric Energy Production

Hydroelectric energy production in 1985 can be estimated by review of historic data and projection of the energy that could be provided by units existing, under construction and planned. The energy projection is made by application of an average nation-wide capacity factor to capacity expected to be installed as of 1985.

The average annual capacity factor of all conventional hydroelectric capacity in the contiguous U.S. is shown in Table III.1 below.

Table III.1
Conventional Hydroelectric Capacity and Generation
1972-1980
Contiguous United States

<u>Year</u>	<u>Installed Capacity</u> <u>MW, January 1</u>	<u>Average Annual</u> <u>Generation, Mwh</u>	<u>Average Annual</u> <u>Capacity Factor</u> ^{4/}
1972	52,558 <u>1/</u>	253,120,821 <u>1/</u>	0.549
1976	56,236 <u>2/</u>	267,404,043 <u>2/</u>	0.543
1980	62,542 <u>3/</u>	281,973,018 <u>3/</u>	0.515

- 1/ Federal Power Commission Publication FPC P-42
Hydroelectric Power Resources of The United States -
Developed and Undeveloped - January 1, 1972, Table 5.
- 2/ Federal Power Commission Publication FPC P-43
Hydroelectric Power Resources of The United States -
Developed and Undeveloped - January 1, 1976, Table 5.
- 3/ Advance preliminary information from a projected
report by the Federal Energy Regulatory Commission
similar to the reports of footnotes 1 and 2 above.
- 4/ Computed by ERA staff.

In general, macroscopic capacity factors, such as those of Table III.1, merge the effects of load patterns, operating economics, capacity availability and the characteristics of installed capacity. Hydro generation is, in addition, affected by the variability water supply. Regionally the variability of the various factors may be much greater than nationally. Constraints of time and information do not permit this analysis to be carried out on a regional basis in this report. The assumption is made here that the average annual capacity factor of conventional hydro capacity in 1985 will be within the range shown in Table III.1.

Table III.2 below shows the hydro capacity planned for completion in each of the years 1980 through 1985, according to the April 1, 1980 Coordinated Planning Reports of the Regional Reliability Councils. No hydro capacity is scheduled for retirement in that period.

Table III.2
Planned Additions of Conventional Hydro Capacity
1980-1985
Contiguous U.S.

<u>Year</u>	<u>New Capacity</u> <u>MW</u>	<u>Upratings</u> <u>MW</u>	<u>Deratings</u> <u>MW</u>	<u>Net Addition</u> <u>MW</u>
1980	1,111	7	2	1,116
1981	739	37	0	776
1982	512	71	0	583
1983	1,143	102	38	1,207
1984	793	3	0	796
1985	851	0	0	851
	<u>5,149</u>	<u>220</u>	<u>40</u>	<u>5,329</u>

The total net addition of conventional hydro capacity from 1980 through 1984 is 4478 MW. As an approximation it is assumed that half of the 1985 projected addition would be effective for the full year. Then, the hydro energy produced in 1985 would be that produced by the total capacity on January 1, 1980 plus the addition of (4478 + 426), or 67,446 MW. The resulting energy production, for a capacity factor of 0.515, would be

$$67,446 \times 8760 \times .515 = 304,275,880 \text{ Mwh}$$

If the capacity factor should be 0.549, the energy production would be

$$67,446 \times 8760 \times .549 = 324,364,000 \text{ Mwh}$$

Barring any large-scale unforeseen events that would disrupt the usual operation of hydroelectric capacity, hydro energy in 1985 can be expected to fall within the range of 304,276 Gwh to 324,364 Gwh. In some areas the hydroelectric energy will supply base load requirements; in some areas the hydro energy will be used for peaking. It is assumed that all of the hydro energy obtainable will be usable.

That is, all that can be produced will be produced at such times that it can supply the load at those times. It is possible that some of the hydro energy would be available only at times when the total load could be supplied by thermal units, and that the thermal units could not be "backed off" (because of technical reasons) to allow use of the hydro energy. This situation is disregarded here.

3. Nuclear Energy Production

In this part of the analysis it is assumed that all nuclear capacity in operation at the end of 1979 (except for Hanford, discussed in the following paragraph) would still be in operation in 1985 and would produce approximately the same amount of electricity in that year as was produced in 1979. The 1979 energy production of these units was 255,155 Gwh. 1/

Since the end of 1979, several new nuclear units have received operating licenses and it can be assumed that by 1985 these units will be in full operation. These units are Sequoyah 1, North Anna 2, Salem 2. The total annual energy production that could be obtained from these units under average operating conditions is approximately 17,772 Gwh. The Hanford Nuclear Powerplant of the Washington Public Power Supply System (WPPSS) is scheduled for retirement in 1983. Its average annual energy production is 4.5 billion kwh, or 4,500 Gwh 2/. Therefore, the total energy that could be expected in 1985 from the three newly-licensed units and the units in operation at the end of 1979 would be in the neighborhood of

$$255,155 + 17,772 - 4,500 = 268,427 \text{ Gwh}$$

Other nuclear units, in addition to the three referred to above, are scheduled to become operative by 1985. The energy available from these and from the three referred to is given as 288,240 Gwh in a recent report by ERA. 3/ If all of these units should obtain operating licenses and be in full normal operation by 1985, the total nuclear energy production would be about

$$255,155 + 288,240 - 4,500 = 538,895 \text{ Gwh}$$

If, on the other hand, some of these units should be delayed, the nuclear energy production would be less. Therefore, it appears that nuclear energy production in 1985 could be in the range

$$268,427 \text{ Gwh to } 538,895 \text{ Gwh}$$

1/ Energy Data Report "Power Production, Fuel Consumption, and Installed Capacity Data for 1979" (Final)
DOE/EIA-0049(79) June 12, 1980, P. 8.

2/ Pacific Northwest Utilities Conference Committee
West Group Forecast, March 1979, Section VI.

3/ Electric Power Supply and Demand 1980-89. July 1980.
DOE/RG-0036 (Rev. 1), page VII.18, Table VII-2-1.

4. Geothermal and Other Energy Production

The 1979 production of electric energy from geothermal and other sources is reported as 4387 Gwh. ^{4/} New geothermal units, fuel cells and windpower installations scheduled for 1980-85 are summarized below:

Table III.3
Planned Installation of Unconventional Capacity 1980-1985

<u>Capacity Addition in Megawatts</u>				
<u>Year</u>	<u>Geothermal</u>	<u>Fuel Cell</u>	<u>Other</u>	<u>Total MW</u>
1980	245.0	3.5	0	248.5
1981	58.0	7.0	51.0	116.0
1982	318.0	-0-	61.0	379.0
1983	165.0	-0-	44.0	209.0
1984	117.0	1.0	10.0	128.0
1985	110.0	10.0	35.0	155.0
Total	1013.0	21.5	201.0	1235.5

The total unconventional capacity of Table III.3 through the end of 1984 is 1080.5. If it is assumed that the capacity installed in 1985 would on the average be effective for only half of the year, the total capacity available for energy production in 1985 would be about $1080.5 + 77.5 = 1158$ MW. In view of the fact that the fuel cell and windpower additions are relatively new to routine operation on a utility system, and the character of the "other" sources is unknown, it is reasonable to assume a relatively low annual capacity factor for these facilities in 1985. The geothermal units have a successful history of operation, but those installed during 1980-85 would still be in the early years of operation and therefore could be expected to have capacity factors smaller than normal. An average capacity factor of 0.40 does not appear unreasonable for the total capacity of 1158 MW. The energy production of this capacity would then be

$$1158 \times 8760 \times 0.4 = 4,057,632 \text{ Mwh} = 4058 \text{ Gwh}$$

If it is assumed that the 1979 energy production of geothermal and "other" energy sources existing in 1979 would be repeated in 1985, the total energy from these sources and the similar new sources in 1985 would be

$$4387 + 4058 = 8445 \text{ Gwh}$$

^{4/} See footnote 1 on preceding page.

5. Summary of Approximate Non-Fossil Generation in 1985

	<u>Gwh</u>	
Hydro	304,276	to 324,364
Nuclear	268,427	to 538,895
Geothermal and Other	8,445	to 8,445
Total	581,148	871,704

To allow for variability of hydro energy production, nuclear licensing delays and problems with "other" and geothermal units, the totals above are rounded to the range of 580,000 Gwh to 870,000 Gwh. Actually, all of this energy may not be usable for meeting load, because of time and transmission limitations. These constraints mean that nuclear base load energy available, say, in New England may at times exceed the base load energy required in that region, but cannot be transmitted to, say, New Mexico, because of practical transmission considerations. Therefore, that energy which could be produced in New England would not be produced. It is this practical difficulty of moving energy freely at any time throughout the entire continental United States that contributes to the need for more capacity than is theoretically needed to supply load requirements. The transmission facilities needed to accommodate energy transfers from any point in the U.S. to any other point in the U.S., at any time, would be far more costly, and environmentally unacceptable, than a few additional power plants.

6. Range of Fossil Energy Requirements for 1985

When effect is given to the various assumptions and approximations discussed, it appears that the total contiguous U.S. net electric energy requirement for 1985 could well be in the range of 2,601,000 Gwh to 2,909,000 Gwh. This range is combined with the totals for the non-fossil sources in Table III.4 below, to obtain a possible range of fossil-based energy requirements.

- 1/ Electric Power Supply and Demand 1980-1989. July 1980. DOE/RG-0036 (Rev. 1), page I.7 Table 1.
- 2/ Edison Electric Institute Electric Output Report dated November 19, 1980.

Table III.4
Possible 1985 Net Electric Energy Production
Contiguous U.S.
Gigawatt hours

<u>Total</u>	<u>Non-fossil</u> ^{1/}	<u>Fossil</u>
2,909,000	580,000	2,329,000
2,909,000	870,000	2,039,000
2,715,000	580,000	2,135,000
2,715,000	870,000	1,845,000
2,601,000	580,000	2,021,000
2,601,000	870,000	1,731,000

The 6 fossil-based electric energy possibilities for 1985, from Table III.4 above, are ranged in order of magnitude below:

Table III.5 - Range of Fossil Energy in 1985

	³	
2329 x 10	Gwh	
2135	"	"
2039	"	"
2021	"	"
1845	"	"
1731	"	"

The median of the above range is 2030 x 10³ Gwh.

1/ From Summary on p. 8 preceding.

7. Actual Fossil Energy Sources 1974-1979

In order to establish a historic frame of reference for a projection of 1985 fossil fuel requirements it is useful to examine fossil-based energy production, and fossil fuel use, for the last several years. Tables III.6 and III.7 below present that data.

Table III.6
Production of Electric Energy
from Fossil Sources
1974-1979
Contiguous United States

<u>Year</u>	<u>Net Fossil Gigawatt hour (Gwh) Production 1/</u>			
	<u>Coal</u>	<u>Oil</u>	<u>Gas</u>	<u>Total</u>
1974	830,000	299,000	320,000	1,449,000
1975	853,000	289,000	300,000	1,442,000
1976	944,000	320,000	295,000	1,559,000
1977	986,000	358,000	305,000	1,649,000
1978	977,000	364,000	305,000	1,646,000
1979	1,076,000	303,000	330,000	1,709,000

Table III.7
Fossil Fuel Use For Electric Energy
1974-1979
Contiguous United States

<u>Year</u>	<u>Fuel Use in Millions of Units 1/</u>		
	<u>Coal (Tons)</u>	<u>Oil (Barrels)</u>	<u>Gas (Mcf)</u>
1974	392	536	3429
1975	406	506	3158
1976	448	556	3081
1977	477	624	3189
1978	482	636	3188
1979	527	523	3491

8. Estimated Range of Fossil Fuel Requirements for 1985

A. Assumptions

A number of assumptions must be made to provide a logical foundation for estimating future fuel requirements. Then, those who disagree with any of the assumptions may choose other premises and of course will obtain different results. The assumptions of this analysis are stated below.

1/ Annual Summary of Cost and Quality of Fuels for Electric Utility Plants (1977 and 1979).

DOE/FERC-0015 Sept. 1978 and DOE/EIA-019 (79) June 1980.

1. All fossil-based energy produced in 1985, exceeding the amount of fossil-based energy produced in 1979, will come from coal-burning units to the greatest extent possible. The reasons for this assumption are the administration's commitment to reduce the use of oil and natural gas by electric utilities, the increasing price of oil and the increasing uncertainty associated with the supply of oil. These three factors, operating together, would appear to drive utilities in the direction of substituting coal for oil wherever possible. The Powerplant and Industrial Fuel Use Act of 1978 can also be expected to move utilities towards reduced use of oil and natural gas.
2. The average efficiency of fossil fuel use in the production of electric energy, as shown in Table III.8, is not expected to improve by 1985, for the U.S. as a whole, although in specific instances some large new units may be more efficient than older units.

Table III.8 shows that the average efficiency of conversion has decreased slightly for coal, from 1974 to 1979. The completion of new, large, more efficient units and the retirement of older, less-efficient units would tend to reverse this trend. Also operating to reverse this trend is the effort of the utility industry to improve the availability of generating units, under the urging of the Department of Energy. However, several factors operate in opposition to the improvement trend. One is the need to install energy-consuming pollution control equipment in the form of scrubbers and cooling towers. Another is the increasing use of low-Btu western coal. When low-Btu coal is used, larger quantities are required than are needed when high-Btu coal is used. Therefore, the coal handling and processing equipment requires more power, and overall unit efficiency is thereby reduced. There do not appear to be any large-scale improvements in coal-burning technology, on the near-term horizon, that could be readily implemented nationwide by 1985, so as to significantly improve coal use efficiency. Therefore, in this analysis, the 1979 conversion factor of 490 tons per Gwh is used.

3. It is assumed that the average BTU content of all utility coal in 1985 will not differ greatly from its 1979 value. Since 1974 the average BTU per pound of coal delivered to electric utilities has dropped slightly. (See Table III.9). Any continuation of this trend is ignored for the purposes of this analysis, although the increased use of low BTU lignite would tend to decrease the average BTU content per pound of coal.
4. It is assumed that conversion of oil-fired plants to the use of coal, by 1985, will reduce oil consumption by about 60 million bbl per year. This corresponds to about 35,000 Gwh and about 8000 MW that would then have to be provided by coal, in addition to other coal-produced energy in 1985. However, if the total additional fossil-based energy required exceeds that which can be provided by coal-fired units, additional use of oil will be required.
5. It is assumed that the fossil-based energy required, in excess of that which can be supplied by coal-burning units, will be generated by oil and gas units. As an approximation the energy allocated to oil and gas will be in the ratio of the 1979 generation, adjusted for the 35,000 Gwh decrease in oil generation cited above.
6. It is recognized that the annual capacity factor of an individual generating unit can, in theory, be as high as 1.00, but the average annual capacity factor applicable to all the units of a system, as a group, cannot exceed (and usually is less than) the system annual load factor. Although coal-fired capacity is less than the total capacity of U.S. power supply, it is a very large portion of that supply. Therefore it is assumed that the average annual capacity factor for the total U.S. coal-fired capacity will not exceed the U.S. system load factor in 1985. U.S. system load factor in 1985, from data reported by the reliability councils 1/ is estimated at about 0.63. From 1948 through 1978, the U.S. annual system load factor has fluctuated between 0.594 and 0.661. 2/

1/ Electric Power Supply and Demand for the Contiguous United States 1980-1989 DOE/RG-0036 (Rev. 1) July 1980. pp. I.7, I.8

2/ 1979 Annual Electric Power Survey. Edison Electric Institute, April 1979 p. 16.

Table III.8
Average U.S. Efficiency of Fossil Fuel
for Electric Power Generation

<u>Year</u>	<u>Coal</u> <u>Tons/Gwh</u>	<u>Oil</u> <u>BBL/Gwh</u>	<u>Natural Gas</u> <u>Mcf/Gwh</u>
1974	472	1,793	10,716
1975	476	1,751	10,527
1976	475	1,738	10,444
1977	484	1,743	10,456
1978	493	1,747	10,453
1979	490	1,726	10,579

Source: Tables III.6 and III.7 preceding.

Table III.9
Average Heat Content of Coal
1974-1979

<u>Year</u>	<u>Bituminous</u>	<u>Sub-bituminous</u> <u>Average BTU per lb.</u>	<u>Lignite</u> <u>1/</u>	<u>Anthracite</u>	<u>Total</u> ^{2/}
1974	11,263	9,375	6,889	8,600	10,892
1975	11,279	9,232	6,534	8,532	10,822
1976	11,407	9,242	6,509	8,763	10,841
1977	11,371	9,216	6,582	8,622	10,756
1978	11,368	9,169	6,605	8,552	10,638
1979	11,483	9,164	6,570	8,727	10,685

1/ Cost and Quality of Fuels For Electric Utility Plants
 1977 DOE/FERC-0015; 1979 DOE/EIA-0191(79)

2/ Weighted in proportion to the quantity of each type of coal.

9. Coal Capacity Available in 1985

The changes in coal-fired capacity scheduled through 1985 are shown in Table III.10 below, based on Reliability Council projections. All numbers have been rounded to eliminate decimals. For convenience it is assumed that all the upratings and deratings reported by the Councils apply to coal-fired units. In reality, some portion of these numbers may refer to oil-or gas-fired units, but the error resulting from the assumption is not significant.

Table III.10
Changes To Coal-Fired Capacity
Scheduled For 1980-1985

(omits increase due to conversion from oil)

<u>Year</u>	<u>New Capacity</u>	<u>Upratings</u>	<u>Deratings</u>	<u>Retirements</u>	<u>Net Change</u>
		Megawatts			
1980	16,550	210	793	27	15,940
1981	8,990	519	135	35	9,339
1982	9,163	200	202	61	9,100
1983	10,094	437	238	47	10,246
1984	9,642 ^{1/}	40	385	30	9,267
1985	15,089	0	242	0	14,847
	<u>69,528</u>	<u>1,406</u>	<u>1,995</u>	<u>200</u>	<u>68,739</u>

Table III.10 shows that the net increase of coal capacity through 1984 (omitting any increase due to conversions from oil to coal) is scheduled to be 53,892 MW. If it is assumed that half of the net change shown for 1985 is effective for the full year, the net change through 1985 will be $53,892 + 7,424 = 61,316$ MW.

As a further approximation it is assumed that the increase in coal capacity resulting from oil-to-coal conversions will be 8,000 MW by 1985. Then, the total increase in coal capacity by 1985, over that existing in 1979, will be $61,316 + 8,000 = 69,316$ MW.

^{1/} 9022 MW from Section V, Table 5, p. 22, plus Brandon Shores No. 1, 620 MW with oil as primary fuel and coal as alternate fuel. It is assumed that coal will actually be the fuel used.

The coal capacity existing as of December 31, 1979 is shown in Table III.11 below:

Table III.11 1/
Total Coal-Fired Capacity
December 31, 1979
Contiguous U.S.

<u>Reliability Council</u>	<u>MW</u>
ECAR	72,944
ERCOT	8,059
MAAC	16,695
MAIN	30,942
MARCA	15,028
NPCC	3,036
SERC	58,701
SWPP	9,239
WSCC	19,819
Total	<u>234,463</u>

From the data above, the total coal-fired capacity available for 1985 energy production is estimated at:

$$234,463 + 69,316 = 303,779 \text{ MW}$$

10. Computation of Fuel Use in 1985

The generation theoretically obtainable from the total U.S. coal-fired capacity in 1985 can be determined if an average capacity factor is assigned. The annual capacity factor of an individual unit, and the average (composite) annual capacity factor of the total U.S. coal capacity, result from the operation of many influences. Table IV.2 shows that the average annual capacity factor of all fossil-fired steam units in the U.S., during the period 1947-1977, fluctuated between 0.46 and 0.57. Individual coal units, as shown in Table IV.1, exhibited annual capacity factors ranging from 0.13 to 0.96 during the period 1972-1977. Some units operated consistently at factors exceeding 0.70 and 0.80 during that period. However, in accordance with the discussion in assumption 6 preceding, the maximum feasible average annual capacity factor for all coal-fired units as a group will be taken as 0.60 for 1985. Then, the generation available from coal will be:

$$303,779 \times 8.76 \times 10^3 \times 0.60 \text{ Mwh} \\ = 1,596,662 \text{ Gwh}$$

1/ Inventory of Power Plants in the United States - December 1979
 pp. 541-543. DOE/EIA-0095 (79) Released for printing June 6, 1980.

This number is rounded to 1597×10^3 Gwh in the following analysis.

It is not improbable that the average capacity factor of the coal units could be no more than 0.5. In that case the coal-fired generation available would be:

$$303,779 \times 8.76 \times 10^3 \times 0.5 \text{ Mwh} \\ = 1,33,552 \text{ Gwh}$$

This number is rounded to 1331×10^3 Gwh in the following analysis.

The coal required to provide the electric energy computed above, at 490 Tons/Gwh (See Table III.8) would be:

<u>Capacity Factor</u>	<u>Gwh</u>	<u>Coal</u>
0.6	$1,597 \times 1,000$	782,530,000 tons
0.5	$1,331 \times 1,000$	652,190,000 tons

The range of fossil energy required in 1985, as shown in Table III.5, exceeds that which can be provided by coal units. Data taken from Table III.5 is compared in Table III.12 with the coal energy available, to determine the amount which must be provided by oil and gas.

Table III.12

<u>Fossil Energy Required</u>	<u>Coal Energy Supplied</u> $\times 10^3$ Gwh	<u>Energy Required From Oil and Gas</u>
Maximum 2,329	1,597	732
Median 2,030	1,597	433
Minimum 1,731	1,597	134
Maximum 2,329	1,331	998
Median 2,030	1,331	699
Minimum 1,731	1,331	400

The energy to be produced by oil and gas units is allocated, on the basis of the 1979 energy produced from those sources adjusted by the expected conversions of some oil units to coal use:

$$\begin{aligned}\text{Oil Energy} &= \text{Total Required} \times \frac{303,000 - 35,000}{303,000 + 330,000} \\ &= \text{Total Required} \times 0.42\end{aligned}$$

$$\begin{aligned}\text{Gas Energy} &= \text{Total Required} \times (1 - .42) \\ &= \text{Total Required} \times 0.58\end{aligned}$$

The oil energy is converted to barrels of oil by the factor 1,726 BBL/Gwh and the gas energy is converted to Mcf of gas by the factor 10,579 Mcf/Gwh (See Table III.8)

Table III.13
Possible Energy and Fuel Requirements in 1985
Oil and Gas

Fossil Energy Total Required Gwh x 1000	From Oil		From Gas	
	Gwh x 1000	BBL x 1000	Gwh x 1000	Mcf x 1000
Maximum 998	419	723,194	579	6,125,241
Maximum 732	307	529,882	425	4,496,075
Minimum 400	168	289,968	232	2,454,328
Minimum 134	56	96,656	78	825,162

11. Summary

The foregoing analysis indicates that the range of fossil fuel requirements for 1985 could be approximately as shown in Table 14 below.

Table III.14
Fuel Requirements 1985

<u>Maximum</u>	(Total Generation Requirement = 2909 x 10 ³ Gwh)	
Coal Required	652 million tons to	783 million tons
Oil Required	723 million bbl to	530 million bbl
Gas Required	6,125 million Mcf to	4,496 million Mcf

Minimum (Total Generation Requirement = 2,601 x 10³ Gwh)
 Coal Required 652 million tons to 783 million tons
 Oil Required 307 million bbl to 97 million bbl
 Gas Required 4,232 million Mcf to 825 million Mcf

Additional oil capacity scheduled to come on line by 1985 is summarized below:

Table III.15
Changes To Oil Fired Capacity
Scheduled For 1980-1985

<u>Year</u>	<u>New Capacity</u> <u>MW</u>	<u>Retirement</u> <u>MW</u>	<u>Net Changes</u> <u>MW</u>
1980	1136.3	227.4	908.9
1981	2109.0	392.1	1716.9
1982	227.5	274.0	(46.5)
1983	70.0	458.9	(389.9)
1984	240.0	574.7	(334.7)
1985	1234.0	407.0	827
Total	5,016.8	2,334	2,682.7

Total change in oil-fired capacity for 1985 Generation
 = 2,269 MW

The oil capacity existing as of December 31, 1979 is shown in Table III.16 below:

Table III.16
Total Oil-Fired Capacity 1/
December 31, 1979
Contiguous U.S.

<u>Reliability Council</u>	<u>MW</u>
ECAR	9799.1
ERCOT	532.6
MAAC	21610.1
MAIN	8398.4
MARCA	4780.6
NPCC	32339.9
SERC	29897.3
SWPP	7062.2
WSCC	31310.7
	<u>145730.90</u>

From the data shown, and Table III.15 the total oil-fired capacity for 1985 energy production is estimated at:

$$145731 + 2269 - 8000 \frac{2/}{=} = 140,000 \text{ MW}$$

The average annual capacity factor of all oil-fired capacity, given the conditions discussed above, would be in the range shown in Table III.17 below:

Table III.17

<u>Required Energy From Oil</u> 6 <u>Mwh x 10</u>	<u>Capacity Factor</u> <u>of Oil Capacity</u>
419	0.342
307	0.250
297	0.242
186	0.152
168	0.137
56	0.046

1/ Inventory of power plants in the United States - December 31, 1979, pp. 541-543. DOE/EIA-0095 (79) Released for Printing 6/6/79.

2/ Estimated capacity to be converted to coal.

IV. Power Plant Capacity Factors

Capacity Factor in this discussion is defined as the ratio of net annual generation (Mwh) to the product of maximum nameplate capacity (MW) and the number of hours in a year. 1/

Power plant capacity factors reflect the use of generating capacity, over a period of time, to meet customer requirements for electric energy. Embedded in the capacity factor of any unit, plant or system are the effects of many factors. Among them are:

- (1) demand patterns (seasonal, daily, hourly)
- (2) cost of various fuels that could be used in available generating units at any instant
- (3) availability of generating units to supply power, as affected by forced outages (full or partial), maintenance requirements, fuel quality, ambient temperature, restrictions on cooling water temperature or stack emissions
- (4) availability of water for hydro units
- (5) interconnections and interconnection agreements
- (6) reliability characteristics of the system as related to installed and spinning reserve requirements
- (7) availability of transmission to move power from generating plants and interconnection points to system load locations
- (8) how the factors listed above and others are perceived by planning and operating personnel and how their perceptions are integrated with the continuing requirements of daily operation.

No attempt is made here to explore or discuss in depth the various factors listed. The only intent is to indicate the complex situation that is summed up in a single number: capacity factor.

1/ A new definition using gross generation instead of net generation is under consideration by the American National Institute and the Institute of Electrical and Electronics Engineers. Statistics based on this definition are not yet generally available.

In the following table are listed coal unit capacity factor data readily available, as a frame of reference for those who may wish to consider the possible utilization of projected base load generating units. The data have been abstracted from the annual series of reports titled "Steam-Electric Plant Construction Cost and Annual Production Expenses." These were issued by the Federal Power Commission through 1975 and by the Energy Information Administration of DOE for 1976 and 1977.

Table IV .1
Annual Capacity Factors 1972-1977
Coal-Fired Steam Units

Unit	Nameplate	Location (State)	Annual Capacity Factor					
	Mw		1972	1973	1974	1975	1976	1977
<u>Units Smaller Than 100 Mw</u>								
Tombigbee	75.0	AL	0.50	0.44	0.24	0.21	0.36	0.45
Wisdom	37.5	IA	0.60	0.64	0.53	0.41	0.13	0.41
Robt. Reid	81.6	KY	0.70	0.65	0.61	0.53	0.52	0.61
Lewis & Clark	50.0	MT	0.78	0.73	0.77	0.72	0.71	0.71
Ben French	22.0	SD	0.56	0.76	0.74	0.76	0.74	0.64
Carbon Cty. 1	75.0	UT	0.50	0.63	0.54	0.46	0.53	0.67
Healy	25.0	AK	0.73	0.76	0.84	0.88	0.86	0.82
<u>Units 100 Mw or Larger but Smaller Than 200 Mw</u>								
Cholla	113.6	AZ	0.74	0.96	0.95	0.80	0.86	0.80
Stanton	172.0	ND	0.69	0.72	0.71	0.57	0.60	0.59
Carbon Cty. 2	113.6	UT	0.50	0.58	0.52	0.61	0.58	0.69
Naughton 1	163.2	WY	0.71	0.83	0.64	0.77	0.70	0.79
<u>Units 200 Mw or Larger but Smaller Than 500 Mw</u>								
Warrick 4	380.0	IN	0.68	0.64	0.62	0.44	0.51	0.48
Breed	495.6	IN	0.15	0.63	0.44	0.46	0.61	0.59
Burlington	212.0	IA	0.59	0.46	0.47	0.52	0.52	0.52
Asbury	212.8	MO	0.69	0.68	0.61	0.69	0.68	0.64
H.B. Robinson	206.6	SC	0.38	0.61	0.52	0.47	0.35	0.58
Leland Olds 1	240.0	ND	0.75	0.68	0.73	0.72	0.69	0.71
Milton Young 1	256.5	ND	0.89	0.77	0.86	0.78	0.82	0.86
Beckjord 6	460.8	OH	0.56	0.34	0.25	0.43	0.53	0.48
Naughton 2	217.6	WY	0.74	0.75	0.68	0.60	0.64	0.70
Naughton 3	326.4	WY	0.29	0.71	0.65	0.40	0.66	0.71
New Genoa	345.6	WI	0.55	0.54	0.65	0.55	0.64	0.68
Edgewater 4	351.0	WI	0.73	0.72	0.65	0.57	0.59	0.61
<u>Units 500 Mw or Larger</u>								
Allen S. King	598.4	MN	0.63	0.57	0.62	0.57	0.61	0.56
Colbert B	550.0	AL	0.30	0.47	0.46	0.22	0.25	0.43
Bull Run	950.0	TN	0.61	0.71	0.74	0.73	0.61	0.66
Paradise B	1150.2	KY	0.62	0.62	0.60	0.46	0.46	0.45

For comparison with the capacity factors of individual units in Table IV.1, Table IV.2 lists average annual capacity factors for all fossil-fueled steam plants taken as a group.

Table IV.2
Fossil-Fuel Steam-Electric Plants
Approximate Average Annual Capacity Factors
Total U.S. Power Industry

<u>Year</u>	<u>Capacity Factor</u> ^{1/}
1938	0.30
1947	0.55
1957	0.57
1967	0.53
1972	0.54 ^{2/}
1973	0.52 ^{2/}
1974	0.48 ^{2/}
1975	0.46
1976	0.47
1977	0.49

^{1/} Steam-Electric Plant Construction Cost and Annual Production Expenses. DOE/EIA-0033/3(77) Table 1 except as noted.

^{2/} Steam-Electric Plant Construction Cost and Annual Production Expenses. Federal Power Commission 1974.

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FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

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1980 - 1989

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS											
ECAR 1	2,516.0	.0	.0	.0	.0	.0	.0	.0	1,000.0	.0	3,516.0
2	6,500.0	.0	.0	.0	.0	.0	.0	80.0	100.0	.0	6,680.0
13	769.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	769.0
14	3,375.0	260.0	.0	.0	.0	.0	3,178.0	.0	.0	.0	4,427.0
15	5,819.0	65.0	.0	.0	.0	.0	792.0	.0	.0	.0	5,884.0
16	5,223.0	90.0	.0	.0	.0	.0	2,904.0	.0	.0	500.0	8,717.0
18	2,319.0	.0	12.0	.0	.0	.0	2,381.0	.0	.0	.0	4,712.0
	26,521.0	415.0	12.0	.0	.0	.0	9,255.0	80.0	1,100.0	500.0	37,883.0
ERCOT 23	15,832.0	.0	.0	.0	.0	.0	5,930.0	.0	.0	.0	21,762.0
MAAC 5	5,040.0	.0	12.5	.0	.0	.0	8,577.0	219.0	.0	.0	13,848.5
MAIN 6	1,650.0	.0	.0	.0	.0	.0	6,516.0	.0	.0	.0	8,166.0
17	1,325.0	249.0	17.0	.0	.0	.0	3,248.0	.0	.0	450.0	5,289.0
19	2,300.0	26.0	.0	.0	.0	.0	.0	.0	.0	.0	2,326.0
	5,275.0	275.0	17.0	.0	.0	.0	9,764.0	.0	.0	450.0	15,781.0
MARCA 20	10,494.0	32.0	27.6	6.0	.0	.0	.0	68.0	.0	.0	10,627.6
NPCC 3	764.0	130.0	26.3	279.0	.0	10.0	4,600.0	89.2	.0	.0	5,898.5
4	3,647.0	.0	.0	.0	.0	.0	1,900.0	206.0	1,900.0	.0	6,753.0
	4,411.0	130.0	26.3	279.0	.0	10.0	6,500.0	295.2	1,000.0	.0	12,651.5
SERC 7	10,612.0	303.0	52.0	.0	.0	.0	795.0	83.0	.0	80.0	11,925.0
9	6,085.0	43.0	.0	.0	.0	.0	3,107.0	649.0	781.0	.0	10,665.0
11	.0	.0	.0	.0	.0	.0	15,811.0	.0	.0	.0	15,811.0
12	5,070.0	200.0	.0	.0	.0	.0	10,962.0	234.0	2,100.0	.0	18,566.0
	21,767.0	546.0	52.0	.0	.0	.0	30,675.0	966.0	2,881.0	80.0	56,967.0
SWPP 8	5,960.0	.0	.0	.0	.0	.0	4,522.0	.0	.0	380.0	10,862.0
10	7,290.0	180.0	.0	.0	.0	.0	940.0	.0	.0	.0	8,410.0
21	5,168.0	383.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	6,701.0
22	8,889.0	.0	2.0	.0	.0	.0	1,150.0	27.0	187.0	.0	10,255.0
	27,307.0	563.0	2.0	.0	.0	.0	7,762.0	27.0	187.0	380.0	36,228.0
WSCC 24	5,770.0	.0	.0	.0	.0	2.0	.0	73.0	700.0	.0	6,545.0
25	3,302.0	706.0	.0	.0	.0	8.5	6,080.0	2,865.0	.0	.0	12,961.5
26	3,228.0	173.0	.0	.0	45.0	.0	3,810.0	251.0	300.0	.0	7,807.0
27	7,300.0	1,455.0	.0	70.0	199.0	28.0	2,200.0	990.0	.0	62.0	12,303.0
28	4,454.0	595.0	.0	397.0	1,339.0	.0	2,190.0	615.0	1,120.0	402.0	11,112.0
30	1,700.0	.0	.0	.0	.0	.0	.0	1,313.0	.0	.0	3,013.0
	25,754.0	2,929.0	.0	467.0	1,582.0	38.5	14,280.0	6,107.0	2,120.0	464.0	53,741.5
TOTAL MW	142,401.0	4,890.0	149.4	752.0	1,582.0	48.5	92,743.0	7,762.2	7,288.0	1,874.0	259,490.1
TOTAL %	54.87	1.88	0.05	0.28	0.60	0.01	35.74	2.99	2.80	0.72	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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1980 - 1989												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS	
NUMBER OF UNITS												
ECAR	1 2 13 14 15 16 18	4 5 1 6 12 11 5	0 0 0 2 1 2 0	0 0 0 0 0 0 2	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 3 1 0 3 3	0 2 0 0 0 0 0	4 1 0 0 0 0 0	0 0 0 0 0 1 0	8 8 4 9 13 17 10	
	44	5	2	0	0	0	10	2	5	1	69	
ERCOT	23	27	0	0	0	0	5	0	0	0	32	
MAAC	5	10	0	1	0	0	8	3	0	0	22	
MAIN	6 17 19	3 3 6	0 8 1	0 3 0	0 0 0	0 0 0	6 3 0	0 0 0	0 0 0	0 1 0	9 18 7	
	12	9	3	0	0	0	9	0	0	1	34	
MARCA	20	24	2	4	1	0	0	2	0	0	33	
NPCC	3 4	4 12	1 0	2 0	1 0	0 0	4 2	12 19	0 1	0 0	25 34	
	16	1	2	1	0	1	6	31	1	0	59	
SERC	7 9 11 12	21 10 0 10	6 1 0 1	5 0 0 0	0 0 0 0	0 0 0 0	1 3 13 11	4 11 0 5	0 5 0 6	2 0 0 0	39 30 13 33	
	41	8	5	0	0	0	28	20	11	2	115	
SWPP	8 10 21 22	8 14 12 19	0 2 4 0	0 0 0 1	0 0 0 0	0 0 0 0	4 1 1 1	0 0 0 1	0 0 0 7	3 0 0 0	15 17 17 29	
	53	6	1	0	0	0	7	1	7	3	78	
WSCC	24 25 26 27 28 30	15 7 10 15 14 4	0 6 3 9 6 0	0 0 0 0 0 0	0 0 0 0 2 0	0 0 1 5 1 0	1 4 3 5 1 0	0 5 3 2 14 0	2 28 3 0 24 16	3 4 1 0 0 0	0 0 0 13 11 20	
	65	24	0	5	22	11	12	87	11	23	260	
TOTAL NO	292	55	18	7	22	12	85	146	35	30	702	
TOTAL %	41.59	7.83	2.56	0.99	3.13	1.70	12.10	20.79	4.98	4.27	100.00	

PROPOSED GENERATING CAPACITY ADDITIONS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1980											
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS											
ECAR	1 626.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	626.0
	2 1,300.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	1,400.0
	13 769.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	769.0
	14 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15 210.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210.0
	16 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18 791.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	797.0
	3,696.0	.0	6.0	.0	.0	.0	.0	.0	100.0	.0	3,802.0
ERCOT	23 1,670.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,670.0
MAAC	5 400.0	.0	.0	.0	.0	.0	1,115.0	.0	.0	.0	1,515.0
MAIN	6 .0	.0	.0	.0	.0	.0	1,048.0	.0	.0	.0	1,048.0
	17 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	19 580.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	580.0
	580.0	.0	.0	.0	.0	.0	1,048.0	.0	.0	.0	1,628.0
MARCA	20 1,681.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	1,688.0
NPCC	3 .0	.0	8.3	.0	.0	.0	.0	3.3	.0	.0	11.6
	4 32.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.0
	32.0	.0	8.3	.0	.0	.0	.0	3.3	.0	.0	43.6
SERC	7 775.0	153.0	.0	.0	.0	.0	.0	.0	.0	.0	928.0
	9 225.0	43.0	.0	.0	.0	.0	807.0	113.0	106.0	.0	1,294.0
	11 .0	.0	.0	.0	.0	.0	1,148.0	.0	.0	.0	1,148.0
	12 1,000.0	.0	.0	.0	.0	.0	2,978.0	.0	.0	.0	3,978.0
	2,000.0	196.0	.0	.0	.0	.0	4,933.0	113.0	106.0	.0	7,348.0
SWPP	8 740.0	.0	.0	.0	.0	.0	912.0	.0	.0	.0	1,652.0
	10 540.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	540.0
	21 1,565.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,565.0
	22 1,831.0	.0	2.0	.0	.0	.0	.0	.0	104.0	.0	1,937.0
	4,676.0	.0	2.0	.0	.0	.0	912.0	.0	104.0	.0	5,694.0
WSCC	24 1,100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,100.0
	25 530.0	178.0	.0	.0	.0	3.5	.0	704.0	.0	.0	1,415.5
	26 592.0	73.0	.0	.0	.0	.0	.0	.0	.0	.0	665.0
	27 .0	95.0	.0	.0	.0	.0	.0	57.0	.0	.0	152.0
	28 .0	50.0	.0	.0	245.0	.0	.0	9.0	.0	.0	304.0
	30 400.0	.0	.0	.0	.0	.0	.0	225.0	.0	.0	625.0
	2,622.0	396.0	.0	.0	245.0	3.5	.0	995.0	.0	.0	4,261.5
TOTAL MW	17,357.0	599.0	16.3	.0	245.0	3.5	8,008.0	1,111.3	310.0	.0	27,650.1
TOTAL %	62.77	2.16	0.05	0.00	0.88	0.01	28.96	4.01	1.12	0.00	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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1980												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS	
NUMBER OF UNITS												
ECAR	1	0	0	0	0	0	0	0	0	0	1	
	2	0	0	0	0	0	0	0	0	0	2	
	13	0	0	0	0	0	0	0	0	0	1	
	14	0	0	0	0	0	0	0	0	0	0	
	15	0	0	0	0	0	0	0	0	0	1	
	16	0	0	0	0	0	0	0	0	0	0	
	18	0	1	0	0	0	0	0	0	0	2	
	5	0	1	0	0	0	0	0	1	0	7	
ERCOT	23	0	0	0	0	0	0	0	0	0	3	
MAAC	5	0	0	0	0	0	1	0	0	0	2	
MAIN	6	0	0	0	0	0	1	0	0	0	1	
	17	0	0	0	0	0	0	0	0	0	0	
	19	0	0	0	0	0	0	0	0	0	1	
	1	0	0	0	0	0	1	0	0	0	2	
MARCA	20	1	0	0	0	0	0	0	0	0	4	
NPCC	3	0	1	0	0	0	0	0	0	0	4	
	4	0	0	0	0	0	0	0	0	0	1	
	1	0	1	0	0	0	0	3	0	0	5	
SERC	7	3	0	0	0	0	0	0	0	0	4	
	9	1	0	0	0	0	1	0	2	0	7	
	11	0	0	0	0	0	1	0	0	0	1	
	12	0	0	0	0	0	3	0	0	0	5	
	4	4	0	0	0	0	5	2	2	0	17	
SWPP	8	0	0	0	0	0	1	0	0	0	2	
	10	0	0	0	0	0	0	0	0	0	1	
	21	0	0	0	0	0	0	0	0	0	3	
	22	0	1	0	0	0	0	0	4	0	9	
	9	0	1	0	0	0	1	0	4	0	15	
WSCC	24	0	0	0	0	0	0	0	0	0	3	
	25	1	0	0	0	2	0	0	1	0	7	
	26	1	0	0	0	0	0	0	0	0	3	
	27	2	0	0	0	0	0	0	0	0	7	
	28	1	0	0	2	0	0	3	0	0	6	
	30	0	0	0	0	0	0	1	0	0	2	
	7	5	0	0	2	2	0	11	1	0	28	
TOTAL NO	34	10	3	0	2	2	8	16	8	0	83	
TOTAL %	40.96	12.04	3.61	0.00	2.40	2.40	9.63	19.27	9.63	0.00	100.00	

PROPOSED GENERATING CAPACITY ADDITIONS
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COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	40.0
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	600.0	.0	.0	.0	.0	.0	792.0	.0	.0	.0	1,392.0
	15	1,479.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,479.0
	16	500.0	60.0	.0	.0	.0	.0	.0	.0	.0	.0	560.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		2,579.0	60.0	.0	.0	.0	.0	792.0	40.0	.0	.0	3,471.0
ERCOT	23	545.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	1,695.0
MAAC	5	600.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	601.0
MAIN	6	.0	.0	.0	.0	.0	.0	1,048.0	.0	.0	.0	1,048.0
	17	.0	102.0	.0	.0	.0	.0	.0	.0	.0	.0	102.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	102.0	.0	.0	.0	.0	1,048.0	.0	.0	.0	1,150.0
MARCA	20	1,686.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,686.0
NPCC	3	.0	.0	.0	279.0	.0	.0	.0	23.0	.0	.0	302.0
	4	.0	.0	.0	.0	.0	.0	820.0	8.0	.0	.0	828.0
		.0	.0	.0	279.0	.0	.0	820.0	31.0	.0	.0	1,130.0
SERC	7	1,384.0	.0	12.0	.0	.0	.0	.0	.0	.0	.0	1,396.0
	9	503.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	503.0
	11	.0	.0	.0	.0	.0	.0	2,325.0	.0	.0	.0	2,325.0
	12	280.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	280.0
		2,167.0	.0	12.0	.0	.0	.0	2,325.0	.0	.0	.0	4,504.0
SWPP	8	740.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	740.0
	10	540.0	90.0	.0	.0	.0	.0	.0	.0	.0	.0	630.0
	21	.0	90.0	.0	.0	.0	.0	.0	.0	.0	.0	90.0
	22	490.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	490.0
		1,770.0	180.0	.0	.0	.0	.0	.0	.0	.0	.0	1,950.0
WSEC	24	470.0	.0	.0	.0	.0	2.0	.0	.0	100.0	.0	572.0
	25	.0	178.0	.0	.0	.0	5.0	.0	334.0	.0	.0	517.0
	26	347.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	348.0
	27	.0	70.0	.0	25.0	.0	.0	1,100.0	327.0	.0	11.0	1,533.0
	28	253.0	.0	.0	.0	58.0	.0	2,190.0	5.0	374.0	40.0	2,920.0
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		1,070.0	248.0	.0	25.0	58.0	7.0	3,290.0	667.0	474.0	51.0	5,890.0
TOTAL MW		10,417.0	590.0	12.0	304.0	58.0	7.0	9,425.0	739.0	474.0	51.0	22,077.0
TOTAL %		47.18	2.67	0.05	1.37	0.26	0.03	42.69	3.34	2.14	0.23	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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TABLE 1
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		1981										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
		NUMBER OF UNITS										
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	1	0	0	0	0	0	0	0	0	0	0
	15	3	1	0	0	0	0	0	0	0	0	0
	16	1	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		5	1	0	0	0	0	1	1	0	0	8
ERCOT	23	1	0	0	0	0	0	1	0	0	0	2
MAAC	5	1	0	0	0	0	0	0	1	0	0	2
MAIN	6	0	0	0	0	0	0	1	0	0	0	1
	17	0	2	0	0	0	0	0	0	0	0	2
	19	0	0	0	0	0	0	0	0	0	0	0
		0	2	0	0	0	0	1	0	0	0	3
MARCA	20	5	0	0	0	0	0	0	0	0	0	5
NPCC	3	0	0	0	1	0	0	0	2	0	0	3
	4	0	0	0	0	0	0	1	2	0	0	3
		0	0	0	1	0	0	1	4	0	0	6
SERC	7	5	0	2	0	0	0	0	0	0	0	7
	9	1	0	0	0	0	0	0	0	0	0	1
	11	0	0	0	0	0	0	2	0	0	0	2
	12	1	0	0	0	0	0	0	0	0	0	1
		7	0	2	0	0	0	2	0	0	0	11
SWPP	8	1	0	0	0	0	0	0	0	0	0	1
	10	1	1	0	0	0	0	0	0	0	0	2
	21	0	1	0	0	0	0	0	0	0	0	1
	22	1	0	0	0	0	0	0	0	0	0	1
		3	2	0	0	0	0	0	0	0	0	5
WSCC	24	1	0	0	0	0	1	0	0	1	0	3
	25	0	1	0	0	0	2	0	6	3	0	12
	26	1	0	0	0	0	0	0	1	0	0	2
	27	0	1	0	0	0	0	0	5	0	0	10
	28	2	0	0	0	2	0	2	2	1	3	12
	30	0	0	0	0	0	0	0	0	0	0	0
		4	2	0	1	2	3	3	14	5	5	39
TOTAL NO		26	7	2	2	2	3	9	20	5	5	81
TOTAL %		32.09	8.64	2.46	2.45	2.46	3.70	11.11	24.69	6.17	6.17	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS											
ECAR 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	600.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	1,120.0	30.0	.0	.0	.0	.0	1,130.0	.0	.0	.0	2,280.0
18	.0	.0	6.0	.0	.0	.0	1,093.0	.0	.0	.0	1,099.0
	1,720.0	30.0	6.0	.0	.0	.0	2,223.0	.0	.0	.0	3,979.0
EPCOT 23	400.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0
MAAC 5	.0	.0	.0	.0	.0	.0	1,050.0	.0	.0	.0	1,050.0
MAIN 6	.0	.0	.0	.0	.0	.0	1,120.0	.0	.0	.0	1,120.0
17	575.0	.0	12.0	.0	.0	.0	2,098.0	.0	.0	.0	2,685.0
19	340.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	340.0
	915.0	.0	12.0	.0	.0	.0	3,218.0	.0	.0	.0	4,145.0
MARCA 20	566.0	25.0	4.5	.0	.0	.0	.0	.0	.0	.0	595.5
NPCC 3	75.0	130.0	18.0	.0	.0	.0	.0	24.2	.0	.0	247.2
4	.0	.0	.0	.0	.0	.0	.0	26.0	.0	.0	26.0
	75.0	130.0	18.0	.0	.0	.0	.0	50.2	.0	.0	273.2
SERC 7	670.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	690.0
9	808.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	808.0
11	.0	.0	.0	.0	.0	.0	1,177.0	.0	.0	.0	1,177.0
12	.0	.0	.0	.0	.0	.0	1,180.0	.0	.0	.0	1,180.0
	1,478.0	.0	20.0	.0	.0	.0	2,357.0	.0	.0	.0	3,855.0
SWPP 8	.0	.0	.0	.0	.0	.0	2,360.0	.0	.0	.0	2,360.0
10	1,070.0	90.0	.0	.0	.0	.0	.0	.0	.0	.0	1,160.0
21	630.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	630.0
22	1,412.0	.0	.0	.0	.0	.0	.0	27.0	31.0	.0	1,470.0
	3,112.0	90.0	.0	.0	.0	.0	2,360.0	27.0	31.0	.0	5,620.0
WSCC 24	500.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0
25	42.0	.0	.0	.0	.0	.0	.0	304.0	.0	.0	346.0
26	472.0	.0	.0	.0	45.0	.0	.0	.0	.0	.0	517.0
27	.0	.0	.0	25.0	.0	.0	.0	104.0	.0	9.0	138.0
28	.0	.0	.0	272.0	273.0	.0	.0	.0	746.0	52.0	1,343.0
30	.0	.0	.0	.0	.0	.0	.0	27.0	.0	.0	27.0
	1,014.0	.0	.0	297.0	318.0	.0	.0	435.0	746.0	61.0	2,871.0
TOTAL MW	9,280.0	275.0	60.5	297.0	318.0	.0	11,208.0	512.2	777.0	61.0	22,788.7
TOTAL %	40.72	1.20	0.26	1.30	1.39	0.00	49.18	2.24	3.40	0.26	100.00

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1982											
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYC_E	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
NUMBER OF UNITS											
ECAR	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0
	14	1	0	0	0	0	0	0	0	0	1
	15	0	0	0	0	0	0	0	0	0	0
	16	2	1	0	0	0	1	0	0	0	4
	18	0	0	1	0	0	1	0	0	0	2
	-----	3	1	1	0	0	2	0	0	0	7
ERCOT	23	1	0	0	0	0	0	0	0	0	1
MAAC	5	0	0	0	0	0	1	0	0	0	1
MAIN	6	0	0	0	0	0	1	0	0	0	1
	17	1	0	2	0	0	2	0	0	0	5
	19	2	0	0	0	0	0	0	0	0	2
	-----	3	0	2	0	0	3	0	0	0	8
MARCA	20	2	1	1	0	0	0	0	0	0	4
NPCC	3	1	1	1	0	0	0	4	0	0	7
	4	0	0	0	0	0	0	3	0	0	3
	-----	1	1	1	0	0	0	7	0	0	10
SERC	7	1	0	2	0	0	0	0	0	0	3
	9	1	0	0	0	0	0	0	0	0	1
	11	0	0	0	0	0	1	0	0	0	1
	12	0	0	0	0	0	1	0	0	0	1
	-----	2	0	2	0	0	2	0	0	0	6
SWPP	8	0	0	0	0	0	2	0	0	0	2
	10	2	1	0	0	0	0	0	0	0	3
	21	1	0	0	0	0	0	0	0	0	1
	22	3	0	0	0	0	0	1	1	0	5
	-----	6	1	0	0	0	2	1	1	0	11
WSCC	24	1	0	0	0	0	0	0	0	0	1
	25	1	0	0	0	0	0	4	0	0	5
	26	1	0	0	1	0	0	0	0	0	2
	27	0	0	0	1	0	0	6	0	1	8
	28	0	0	0	1	3	1	0	2	2	9
	30	0	0	0	0	0	0	3	0	0	3
	-----	3	0	0	2	4	1	0	13	2	28
TOTAL NO	21	4	7	2	4	1	10	21	3	3	76
TOTAL %	27.63	5.26	9.21	2.63	5.26	1.31	13.15	27.63	3.94	3.94	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS												
ECAR	1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	1,300.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	500.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0
	16	344.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	344.0
	18	50.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0
		2,194.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,194.0
ERCOT	23	540.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	1,690.0
MAAC	5	.0	.0	.0	.0	.0	.0	1,050.0	30.0	.0	.0	1,080.0
MAIN	6	.0	.0	.0	.0	.0	.0	2,210.0	.0	.0	.0	2,210.0
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	19	580.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	580.0
		580.0	.0	.0	.0	.0	.0	2,210.0	.0	.0	.0	2,790.0
MARCA	20	1,066.0	.0	7.7	.0	.0	.0	.0	38.0	.0	.0	1,111.7
NPCC	3	121.0	.0	.0	.0	.0	.0	1,150.0	21.5	.0	.0	1,292.5
	4	175.0	.0	.0	.0	.0	.0	.0	26.0	.0	.0	201.0
		296.0	.0	.0	.0	.0	.0	1,150.0	47.5	.0	.0	1,493.5
SERC	7	600.0	.0	20.0	.0	.0	.0	795.0	8.0	.0	.0	1,423.0
	9	654.0	.0	.0	.0	.0	.0	.0	197.0	.0	.0	851.0
	11	.0	.0	.0	.0	.0	.0	1,213.0	.0	.0	.0	1,213.0
	12	1,170.0	.0	.0	.0	.0	.0	1,145.0	.0	1,050.0	.0	3,365.0
		2,424.0	.0	20.0	.0	.0	.0	3,153.0	205.0	1,050.0	.0	6,852.0
SWPP	8	740.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	740.0
	10	540.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	540.0
	21	960.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	2,110.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		2,240.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	3,390.0
WSCC	24	400.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	500.0
	25	.0	.0	.0	.0	.0	.0	1,100.0	484.0	.0	.0	1,584.0
	26	.0	50.0	.0	.0	.0	.0	1,270.0	.0	.0	.0	1,320.0
	27	250.0	.0	.0	.0	.0	.0	1,100.0	177.0	.0	9.0	1,591.0
	28	81.0	10.0	.0	125.0	110.0	.0	.0	161.0	.0	.0	522.0
	30	400.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0
		1,131.0	60.0	.0	125.0	165.0	.0	3,470.0	822.0	100.0	44.0	5,917.0
		10,471.0	60.0	27.7	125.0	165.0	.0	13,333.0	1,142.5	1,150.0	44.0	26,518.2
TOTAL MW		10,471.0	60.0	27.7	125.0	165.0	.0	13,333.0	1,142.5	1,150.0	44.0	26,518.2
TOTAL %		39.48	0.22	0.10	0.47	0.62	0.00	50.27	4.30	4.33	0.16	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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		1983											
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS	
NUMBER OF UNITS													
ECAR	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	1	0	0	0	0	0	0	0	0	0	1	1
	13	0	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0	0
	15	1	0	0	0	0	0	0	0	0	0	1	1
	16	1	0	0	0	0	0	0	0	0	0	1	1
	18	1	0	0	0	0	0	0	0	0	0	1	1
		4	0	0	0	0	0	0	0	0	0	4	4
ERCOT	23	1	0	0	0	0	0	1	0	0	0	2	2
MAAC	5	0	0	0	0	0	0	1	1	0	0	2	2
MAIN	6	0	0	0	0	0	0	2	0	0	0	2	2
	17	0	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	1	1
		1	0	0	0	0	0	2	0	0	0	3	3
MARCA	20	2	0	1	0	0	0	0	1	0	0	4	4
NPCC	3	2	0	0	0	0	0	1	2	0	0	5	5
	4	1	0	0	0	0	0	0	3	0	0	4	4
		3	0	0	0	0	0	1	5	0	0	9	9
SERC	7	1	0	1	0	0	0	1	3	0	0	6	6
	9	1	0	0	0	0	0	0	3	0	0	4	4
	11	0	0	0	0	0	0	1	0	0	0	1	1
	12	2	0	0	0	0	0	1	0	3	0	6	6
		4	0	1	0	0	0	3	6	3	0	17	17
SWPP	8	1	0	0	0	0	0	0	0	0	0	1	1
	10	1	0	0	0	0	0	0	0	0	0	1	1
	21	2	0	0	0	0	0	1	0	0	0	3	3
	22	0	0	0	0	0	0	0	0	0	0	0	0
		4	0	0	0	0	0	1	0	0	0	5	5
WSCC	24	1	0	0	0	0	0	0	0	1	0	2	2
	25	0	0	0	0	0	0	1	4	0	0	5	5
	26	0	1	0	0	0	0	1	0	0	0	2	2
	27	1	0	0	1	1	0	1	5	0	1	9	9
	28	2	1	0	0	1	0	0	2	0	2	9	9
	30	1	0	0	0	0	0	0	0	0	0	1	1
		5	2	0	1	2	0	3	11	1	3	28	28
TOTAL NO		24	2	2	1	2	0	12	24	4	3	74	74
TOTAL %		32.43	2.70	2.70	1.35	2.70	0.00	16.21	32.43	5.40	4.05	100.00	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	1,300.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0
	13	.0	.0	.0	.0	.0	.0	1,179.0	.0	.0	.0	1,179.0
	14	.0	195.0	.0	.0	.0	.0	.0	.0	.0	.0	195.0
	15	890.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	890.0
	16	765.0	.0	.0	.0	.0	.0	1,130.0	.0	.0	.0	1,895.0
	18	664.0	.0	.0	.0	.0	.0	783.0	.0	.0	.0	1,447.0
		3,619.0	195.0	.0	.0	.0	.0	3,092.0	.0	.0	.0	6,906.0
ERCOT	23	.0	.0	.0	.0	.0	.0	1,250.0	.0	.0	.0	1,250.0
MAAC	5	620.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	620.0
MAIN	6	.0	.0	.0	.0	.0	.0	1,090.0	.0	.0	.0	1,090.0
	17	.0	25.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0
	19	400.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0
		400.0	25.0	.0	.0	.0	.0	1,090.0	.0	.0	.0	1,515.0
MARCA	20	650.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	650.0
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4	1,065.0	.0	.0	.0	.0	.0	.0	14.0	.0	.0	1,079.0
		1,065.0	.0	.0	.0	.0	.0	.0	14.0	.0	.0	1,079.0
SERC	7	670.0	.0	.0	.0	.0	.0	.0	75.0	.0	.0	745.0
	9	808.0	.0	.0	.0	.0	.0	1,150.0	172.0	.0	.0	2,130.0
	11	.0	.0	.0	.0	.0	.0	1,213.0	.0	.0	.0	1,213.0
	12	.0	.0	.0	.0	.0	.0	900.0	150.0	1,050.0	.0	2,100.0
		1,478.0	.0	.0	.0	.0	.0	3,263.0	397.0	1,050.0	.0	6,188.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0	.0	940.0	.0	.0	.0	940.0
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22	515.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	515.0
		515.0	.0	.0	.0	.0	.0	940.0	.0	.0	.0	1,455.0
WSCC	24	350.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	350.0
	25	700.0	.0	.0	.0	.0	.0	.0	96.0	.0	.0	796.0
	26	210.0	.0	.0	.0	.0	.0	1,270.0	.0	.0	.0	1,480.0
	27	.0	.0	.0	20.0	64.0	1.0	.0	.0	.0	10.0	95.0
	28	290.0	25.0	.0	.0	53.0	.0	.0	210.0	.0	.0	578.0
	30	.0	.0	.0	.0	.0	.0	.0	76.0	.0	.0	76.0
		1,550.0	25.0	.0	20.0	117.0	1.0	1,270.0	382.0	.0	10.0	3,375.0
TOTAL MW		9,897.0	245.0	.0	20.0	117.0	1.0	10,905.0	793.0	1,050.0	10.0	23,038.0
TOTAL %		42.95	1.06	0.00	0.08	0.50	0.00	47.33	3.44	4.55	0.04	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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		1984										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
NUMBER OF UNITS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	1	0	0	0	0	0	0	0	0	0	1
	13	0	0	0	0	0	0	1	0	0	0	1
	14	0	1	0	0	0	0	0	0	0	0	1
	15	2	0	0	0	0	0	0	0	0	0	2
	16	2	0	0	0	0	0	1	0	0	0	3
	18	1	0	0	0	0	0	1	0	0	0	2
		6	1	0	0	0	0	3	0	0	0	10
ERCOT	23	0	0	0	0	0	0	1	0	0	0	1
MAAC	5	1	0	0	0	0	0	0	0	0	0	1
MAIN	6	0	0	0	0	0	0	1	0	0	0	1
	17	0	1	0	0	0	0	0	0	0	0	1
	19	1	0	0	0	0	0	0	0	0	0	1
		1	1	0	0	0	0	1	0	0	0	3
MARCA	20	1	0	0	0	0	0	0	0	0	0	1
NPCC	3	0	0	0	0	0	0	0	0	0	0	0
	4	3	0	0	0	0	0	0	3	0	0	6
		3	0	0	0	0	0	0	3	0	0	6
SERC	7	1	0	0	0	0	0	0	1	0	0	2
	9	1	0	0	0	0	0	1	2	0	0	4
	11	0	0	0	0	0	0	1	0	0	0	1
	12	0	0	0	0	0	0	1	2	3	0	6
		2	0	0	0	0	0	3	5	3	0	13
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	1	0	0	0	1
	21	0	0	0	0	0	0	0	0	0	0	0
	22	1	0	0	0	0	0	0	0	0	0	1
		1	0	0	0	0	0	1	0	0	0	2
WSCC	24	2	0	0	0	0	0	0	0	0	0	2
	25	1	0	0	0	0	0	0	4	0	0	5
	26	1	0	0	0	0	0	1	0	0	0	2
	27	0	0	0	1	0	1	0	0	0	1	3
	28	2	1	0	0	1	0	0	2	0	0	6
	30	0	0	0	0	0	0	0	1	0	0	1
		6	1	0	1	3	1	1	7	0	1	21
TOTAL NO		21	3	0	1	3	1	10	15	3	1	58
TOTAL %		36.20	5.17	0.00	1.72	5.17	1.72	17.24	25.86	5.17	1.72	100.00

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COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	40.0
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	1,200.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,200.0
	15	600.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0
	16	344.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	344.0
	18	664.0	.0	.0	.0	.0	.0	505.0	.0	.0	.0	1,169.0
		2,808.0	.0	.0	.0	.0	.0	505.0	40.0	.0	.0	3,353.0
ERCOT	23	2,200.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,200.0
MAAC	5	.0	.0	.0	.0	.0	.0	2,121.0	188.0	.0	.0	2,309.0
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	5.0
	19	.0	26.0	.0	.0	.0	.0	.0	.0	.0	.0	26.0
		.0	26.0	5.0	.0	.0	.0	.0	.0	.0	.0	31.0
MARCA	20	925.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	931.0
NPCC	3	.0	.0	.0	.0	.0	10.0	2,300.0	17.2	.0	.0	2,327.2
	4	175.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	183.0
		175.0	.0	.0	.0	.0	10.0	2,300.0	25.2	.0	.0	2,510.2
SERC	7	1,617.0	150.0	.0	.0	.0	.0	.0	.0	.0	.0	1,767.0
	9	654.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	754.0
	11	.0	.0	.0	.0	.0	.0	1,285.0	.0	.0	.0	1,285.0
	12	720.0	.0	.0	.0	.0	.0	1,145.0	84.0	.0	.0	1,949.0
		2,991.0	150.0	.0	.0	.0	.0	2,430.0	184.0	.0	.0	5,755.0
SWPP	8	740.0	.0	.0	.0	.0	.0	1,250.0	.0	.0	.0	1,990.0
	10	1,080.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,080.0
	21	680.0	233.0	.0	.0	.0	.0	.0	.0	.0	.0	913.0
	22	1,148.0	.0	.0	.0	.0	.0	.0	.0	52.0	.0	1,200.0
		3,648.0	233.0	.0	.0	.0	.0	1,250.0	.0	52.0	.0	5,183.0
WSCC	24	470.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	470.0
	25	700.0	75.0	.0	.0	.0	.0	1,250.0	298.0	.0	.0	2,323.0
	26	697.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	697.0
	27	350.0	390.0	.0	.0	.0	.0	.0	.0	.0	10.0	750.0
	28	380.0	510.0	.0	.0	110.0	.0	.0	30.0	.0	25.0	1,055.0
	30	400.0	.0	.0	.0	.0	.0	.0	86.0	.0	.0	486.0
		2,997.0	975.0	.0	.0	110.0	.0	1,250.0	414.0	.0	35.0	5,781.0
TOTAL MW		15,744.0	1,384.0	5.0	6.0	110.0	10.0	9,856.0	851.2	52.0	35.0	28,053.2
TOTAL %		56.12	4.93	0.01	0.02	0.39	0.03	35.13	3.03	0.18	0.12	100.00

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		1985										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
NUMBER OF UNITS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	2	0	0	0	0	0	0	0	0	0	2
	15	1	0	0	0	0	0	0	0	0	0	1
	16	1	0	0	0	0	0	0	0	0	0	1
	18	1	0	0	0	0	0	1	0	0	0	2
		5	0	0	0	0	0	1	1	0	0	7
ERCOT	23	3	0	0	0	0	0	0	0	0	0	3
MAAC	5	0	0	0	0	0	0	2	1	0	0	3
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	1	0	0	0	0	0	0	0	0
	19	0	1	0	0	0	0	0	0	0	0	1
		0	1	1	0	0	0	0	0	0	0	2
MARCA	20	2	0	0	1	0	0	0	0	0	0	3
NPCC	3	0	0	0	0	0	1	2	1	0	0	4
	4	1	0	0	0	0	0	0	1	0	0	2
		1	0	0	0	0	1	2	2	0	0	6
SERC	7	3	3	0	0	0	0	0	0	0	0	6
	9	1	0	0	0	0	0	0	2	0	0	3
	11	0	0	0	0	0	0	1	0	0	0	1
	12	1	0	0	0	0	0	1	3	0	0	5
		5	3	0	0	0	0	2	5	0	0	15
SWPP	8	1	0	0	0	0	0	1	0	0	0	2
	10	2	0	0	0	0	0	0	0	0	0	2
	21	1	2	0	0	0	0	0	0	0	0	3
	22	2	0	0	0	0	0	0	0	2	0	4
		6	2	0	0	0	0	1	0	2	0	11
WSCC	24	1	0	0	0	0	0	0	0	0	0	1
	25	1	1	0	0	0	0	1	3	0	0	6
	26	2	0	0	0	0	0	0	0	0	0	2
	27	2	2	0	0	0	0	0	0	0	0	5
	28	2	3	0	0	1	0	0	1	0	1	8
	30	1	0	0	0	0	0	0	1	0	0	2
		9	6	0	0	1	0	1	5	0	2	24
TOTAL NO		31	12	1	1	1	1	9	14	2	2	74
TOTAL %		41.89	16.21	1.35	1.35	1.35	1.35	12.16	18.91	2.70	2.70	100.00

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COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS											
ECAR 1	630.0	.0	.0	.0	.0	.0	.0	.0	500.0	.0	1,130.0
2	1,300.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0
13	.0	.0	.0	.0	.0	.0	820.0	.0	.0	.0	820.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	995.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	995.0
16	500.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0
18	150.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150.0
	3,575.0	.0	.0	.0	.0	.0	820.0	.0	500.0	.0	4,895.0
ERCOT 23	1,450.0	.0	.0	.0	.0	.0	1,250.0	.0	.0	.0	2,700.0
MAAC 5	.0	.0	12.5	.0	.0	.0	1,120.0	.0	.0	.0	1,132.5
MAIN 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	400.0	97.0	.0	.0	.0	.0	.0	.0	.0	.0	497.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	400.0	97.0	.0	.0	.0	.0	.0	.0	.0	.0	497.0
MARCA 20	400.0	.0	7.7	.0	.0	.0	.0	.0	.0	.0	407.7
NPCC 3	.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	1,150.0
4	175.0	.0	.0	.0	.0	.0	1,080.0	16.0	.0	.0	1,271.0
	175.0	.0	.0	.0	.0	.0	2,230.0	16.0	.0	.0	2,421.0
SERC 7	1,018.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,018.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	1,233.0	.0	.0	.0	1,233.0
12	450.0	200.0	.0	.0	.0	.0	.0	.0	.0	.0	650.0
	1,468.0	200.0	.0	.0	.0	.0	1,233.0	.0	.0	.0	2,901.0
SWPP 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0	30.0
10	1,580.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,580.0
21	300.0	60.0	.0	.0	.0	.0	.0	.0	.0	.0	360.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	1,880.0	60.0	.0	.0	.0	.0	.0	.0	.0	30.0	1,970.0
WSCC 24	470.0	.0	.0	.0	.0	.0	.0	73.0	.0	.0	543.0
25	.0	25.0	.0	.0	.0	.0	2,490.0	.0	.0	.0	2,515.0
26	.0	.0	.0	.0	.0	.0	1,270.0	.0	.0	.0	1,270.0
27	1,500.0	390.0	.0	.0	44.0	2.0	.0	320.0	.0	3.0	2,259.0
28	800.0	.0	.0	.0	165.0	.0	.0	50.0	.0	100.0	1,115.0
30	.0	.0	.0	.0	.0	.0	.0	189.0	.0	.0	189.0
	2,770.0	415.0	.0	.0	209.0	2.0	3,760.0	632.0	.0	103.0	7,891.0
TOTAL MW	12,118.0	772.0	20.2	.0	209.0	2.0	10,413.0	648.0	500.0	133.0	24,815.2
TOTAL %	48.83	3.11	0.08	0.00	0.84	0.00	41.96	2.61	2.01	0.53	100.00

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		1986										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
		NUMBER OF UNITS										
ECAR	1	1	0	0	0	0	0	0	0	2	0	3
	2	1	0	0	0	0	0	0	0	0	0	1
	13	0	0	0	0	0	0	1	0	0	0	1
	14	0	0	0	0	0	0	0	0	0	0	0
	15	2	0	0	0	0	0	0	0	0	0	2
	16	1	0	0	0	0	0	0	0	0	0	1
	18	1	0	0	0	0	0	0	0	0	0	1
		6	0	0	0	0	0	1	0	2	0	9
ERCOT	23	2	0	0	0	0	0	1	0	0	0	3
MAAC	5	0	0	1	0	0	0	1	0	0	0	2
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	1	4	0	0	0	0	0	0	0	0	5
	19	0	0	0	0	0	0	0	0	0	0	0
		1	4	0	0	0	0	0	0	0	0	5
MARCA	20	1	0	1	0	0	0	0	0	0	0	2
NPCC	3	0	0	0	0	0	0	1	0	0	0	1
	4	1	0	0	0	0	0	1	2	0	0	4
		1	0	0	0	0	0	2	2	0	0	5
SERC	7	2	0	0	0	0	0	0	0	0	0	2
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	1	0	0	0	1
	12	1	1	0	0	0	0	0	0	0	0	2
		3	1	0	0	0	0	1	0	0	0	5
SWPP	8	0	0	0	0	0	0	0	0	0	1	1
	10	3	0	0	0	0	0	0	0	0	0	3
	21	1	1	0	0	0	0	0	0	0	0	2
	22	0	0	0	0	0	0	0	0	0	0	0
		4	1	0	0	0	0	0	0	0	1	6
WSCC	24	1	0	0	0	0	0	0	0	0	0	3
	25	0	1	0	0	0	0	2	0	0	0	3
	26	0	0	0	0	0	0	1	0	0	0	1
	27	3	2	0	0	1	1	0	2	0	0	10
	28	1	0	0	0	2	0	0	1	0	2	6
	30	0	0	0	0	0	0	0	4	0	0	4
		5	3	0	0	3	1	3	4	0	3	27
TOTAL NO		23	9	2	0	3	1	9	11	2	4	64
TOTAL %		35.93	14.06	3.12	0.00	4.68	1.56	14.06	17.18	3.12	6.25	100.00

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COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
MEGAWATTS												
ECAR	1	630.0	.0	.0	.0	.0	.0	.0	.0	500.0	.0	1,130.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	375.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	375.0
	15	650.0	65.0	.0	.0	.0	.0	.0	.0	.0	.0	715.0
	16	.0	.0	.0	.0	.0	.0	644.0	.0	.0	.0	644.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		1,655.0	65.0	.0	.0	.0	.0	644.0	.0	500.0	.0	2,864.0
ERCOT	23	2,292.0	.0	.0	.0	.0	.0	1,130.0	.0	.0	.0	3,422.0
MAAC	5	1,525.0	.0	.0	.0	.0	.0	2,121.0	.0	.0	.0	3,646.0
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	450.0	450.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	450.0	450.0
MARCA	20	2,820.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,820.0
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4	875.0	.0	.0	.0	.0	.0	.0	92.0	1,000.0	.0	1,967.0
		875.0	.0	.0	.0	.0	.0	.0	92.0	1,000.0	.0	1,967.0
SERC	7	1,968.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0	2,008.0
	9	1,625.0	.0	.0	.0	.0	.0	.0	.0	675.0	.0	3,450.0
	11	.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	2,466.0
	12	500.0	.0	.0	.0	.0	.0	2,466.0	.0	.0	.0	2,307.0
		4,093.0	.0	.0	.0	.0	.0	5,423.0	.0	675.0	40.0	10,231.0
SWPP	8	750.0	.0	.0	.0	.0	.0	.0	.0	.0	170.0	920.0
	10	400.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0
	21	83.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83.0
	22	1,298.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	2,448.0
		2,531.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	170.0	3,851.0
WSCC	24	670.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	670.0
	25	500.0	225.0	.0	.0	.0	.0	1,240.0	645.0	.0	.0	2,610.0
	26	350.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	350.0
	27	1,250.0	510.0	.0	.0	35.0	5.0	.0	.0	.0	3.0	1,803.0
	28	925.0	.0	.0	.0	55.0	.0	.0	50.0	.0	50.0	1,080.0
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		3,695.0	735.0	.0	.0	90.0	5.0	1,240.0	695.0	.0	53.0	6,513.0
TOTAL MW		19,486.0	800.0	.0	.0	90.0	5.0	11,708.0	787.0	2,175.0	713.0	25,764.0
TOTAL %		54.48	2.23	0.00	0.00	0.25	0.01	32.73	2.20	6.08	1.99	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1987												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS	
NUMBER OF UNITS												
ECAR	1	0	0	0	0	0	0	0	2	0	3	
	2	0	0	0	0	0	0	0	0	0	0	
	13	0	0	0	0	0	0	0	0	0	0	
	14	1	0	0	0	0	0	0	0	0	1	
	15	1	0	0	0	0	0	0	0	0	2	
	16	0	0	0	0	0	1	0	0	0	1	
	18	0	0	0	0	0	0	0	0	0	0	
	3	1	0	0	0	0	1	0	2	0	7	
ERCOT	23	4	0	0	0	0	1	0	0	0	5	
MAAC	5	3	0	0	0	0	2	0	0	0	5	
MAIN	6	0	0	0	0	0	0	0	0	0	0	
	17	0	0	0	0	0	0	0	0	1	0	
	19	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	
MARCA	20	6	0	0	0	0	0	0	0	0	6	
NPCC	3	0	0	0	0	0	0	0	0	0	0	
	4	2	0	0	0	0	0	4	1	0	7	
	2	0	0	0	0	0	0	4	1	0	7	
SERC	7	3	0	0	0	0	0	0	0	1	4	
	9	0	0	0	0	0	1	0	0	0	7	
	11	0	0	0	0	0	0	0	0	0	2	
	12	1	0	0	0	0	2	0	0	0	3	
	7	0	0	0	0	0	5	0	3	1	16	
SWPP	8	1	0	0	0	0	0	0	0	1	2	
	10	1	0	0	0	0	0	0	0	0	1	
	21	1	0	0	0	0	0	0	0	0	1	
	22	3	0	0	0	0	1	0	0	0	4	
	6	0	0	0	0	0	1	0	0	1	8	
WSCC	24	2	0	0	0	0	0	0	0	0	2	
	25	1	0	0	0	0	1	5	0	0	8	
	26	1	0	0	0	0	0	0	0	0	1	
	27	2	0	0	0	0	0	0	0	0	7	
	28	2	0	0	0	0	0	1	0	1	5	
	30	0	0	0	0	0	0	0	0	0	0	
	8	3	0	0	2	1	1	6	0	2	23	
TOTAL NO	39	4	0	0	2	1	11	10	6	5	78	
TOTAL %	50.00	5.12	0.00	0.00	2.56	1.28	14.10	12.82	7.69	6.41	100.00	

PROPOSED GENERATING CAPACITY ADDITIONS
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

		1988										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
		MEGAWATTS										
ECAR	1	630.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	630.0
	2	1,300.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0
	13	.0	.0	.0	.0	.0	.0	1,179.0	.0	.0	.0	1,179.0
	14	.0	65.0	.0	.0	.0	.0	.0	.0	.0	.0	65.0
	15	495.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	495.0
	16	1,650.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,650.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		4,075.0	65.0	.0	.0	.0	.0	1,179.0	.0	.0	.0	5,319.0
ERCOT	23	3,420.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3,420.0
MAAC	5	870.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	870.0
MAIN	6	550.0	.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	1,550.0
	17	350.0	25.0	.0	.0	.0	.0	.0	.0	.0	.0	350.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	900.0	25.0	.0	.0	.0	.0	1,150.0	.0	.0	.0	.0	2,075.0
MARCA	20	500.0	.0	.0	.0	.0	.0	.0	30.0	.0	.0	530.0
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4	175.0	.0	.0	.0	.0	.0	.0	16.0	.0	.0	191.0
		175.0	.0	.0	.0	.0	.0	.0	16.0	.0	.0	191.0
SERC	7	700.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0	740.0
	9	.0	.0	.0	.0	.0	.0	.0	67.0	.0	.0	67.0
	11	.0	.0	.0	.0	.0	.0	1,285.0	.0	.0	.0	1,285.0
	12	450.0	.0	.0	.0	.0	.0	907.0	.0	.0	.0	1,357.0
		1,150.0	.0	.0	.0	.0	.0	2,192.0	67.0	.0	40.0	3,449.0
SWPP	8	750.0	.0	.0	.0	.0	.0	.0	.0	.0	180.0	930.0
	10	940.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	940.0
	21	300.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	300.0
	22	770.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	770.0
		2,760.0	.0	.0	.0	.0	.0	.0	.0	.0	180.0	2,940.0
WSCC	24	870.0	.0	.0	.0	.0	.0	.0	.0	500.0	.0	1,370.0
	25	.0	25.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0
	26	210.0	.0	.0	.0	.0	.0	.0	250.0	.0	.0	460.0
	27	1,750.0	.0	.0	.0	.0	10.0	.0	5.0	.0	3.0	1,768.0
	28	800.0	.0	.0	.0	220.0	.0	.0	50.0	.0	50.0	1,120.0
	30	500.0	.0	.0	.0	.0	.0	.0	119.0	.0	.0	619.0
		4,130.0	25.0	.0	.0	220.0	10.0	.0	424.0	500.0	53.0	5,362.0
TOTAL MW	17,980.0	115.0	.0	.0	220.0	10.0	4,521.0	537.0	500.0	273.0	24,156.0	
TOTAL %	74.43	0.47	0.00	0.00	0.91	0.04	18.71	2.22	2.06	1.13	100.00	

PROPOSED GENERATING CAPACITY ADDITIONS
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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TABLE 1
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		1988										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
		NUMBER OF UNITS										
ECAR	1	1	0	0	0	0	0	0	0	0	0	1
	2	1	0	0	0	0	0	0	0	0	0	1
	13	0	0	0	0	0	0	0	0	0	0	1
	14	0	1	0	0	0	0	1	0	0	0	1
	15	1	0	0	0	0	0	0	0	0	0	1
	16	3	0	0	0	0	0	0	0	0	0	3
	18	0	0	0	0	0	0	0	0	0	0	0
		6	1	0	0	0	0	1	0	0	0	8
ERCOT	23	6	0	0	0	0	0	0	0	0	0	6
MAAC	5	2	0	0	0	0	0	0	0	0	0	2
MAIN	6	1	0	0	0	0	0	0	0	0	0	1
	17	1	1	0	0	0	0	1	0	0	0	3
	19	0	0	0	0	0	0	0	0	0	0	0
		2	1	0	0	0	0	1	0	0	0	4
MARCA	20	1	0	0	0	0	0	0	1	0	0	2
NPCC	3	0	0	0	0	0	0	0	0	0	0	0
	4	1	0	0	0	0	0	0	1	0	0	2
		1	0	0	0	0	0	0	1	0	0	2
SERC	7	1	0	0	0	0	0	0	0	0	1	2
	9	0	0	0	0	0	0	0	0	0	0	2
	11	0	0	0	0	0	0	0	0	0	0	2
	12	1	0	0	0	0	0	1	0	0	0	2
		2	0	0	0	0	0	1	0	0	0	3
SWPP	8	1	0	0	0	0	0	0	0	0	1	2
	10	2	0	0	0	0	0	0	0	0	0	2
	21	2	0	0	0	0	0	0	0	0	0	2
	22	2	0	0	0	0	0	0	0	0	0	2
		7	0	0	0	0	0	0	0	0	1	8
WSCC	24	2	0	0	0	0	0	0	0	1	0	3
	25	0	1	0	0	0	0	0	0	0	0	1
	26	1	0	0	0	0	0	0	0	0	0	1
	27	3	0	0	0	0	0	0	2	0	0	3
	28	1	0	0	0	0	0	0	1	0	1	3
	30	1	0	0	0	0	0	0	2	0	0	3
		8	1	0	0	2	1	0	6	1	2	21
TOTAL NO		35	3	0	0	2	1	4	10	1	4	60
TOTAL %		58.33	5.00	0.00	0.00	3.33	1.66	6.66	16.66	1.66	6.66	100.00

PROPOSED GENERATING CAPACITY ADDITIONS
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1989												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS	
MEGAWATTS												
FCAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	14	600.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	16	.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		600.0	.0	.0	.0	.0	.0	.0	.0	500.0	1,100.0	
ERCOT	23	3,315.0	.0	.0	.0	.0	.0	.0	.0	.0	3,315.0	
MAAC	5	1,025.0	.0	.0	.0	.0	.0	.0	.0	.0	1,025.0	
MAIN	6	1,100.0	.0	.0	.0	.0	.0	.0	.0	.0	1,100.0	
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	19	400.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	
		1,500.0	.0	.0	.0	.0	.0	.0	.0	.0	1,500.0	
MARCA	20	200.0	.0	7.7	.0	.0	.0	.0	.0	.0	207.7	
NPCC	3	568.0	.0	.0	.0	.0	.0	.0	.0	.0	568.0	
	4	975.0	.0	.0	.0	.0	.0	.0	.0	.0	975.0	
		1,543.0	.0	.0	.0	.0	.0	.0	.0	.0	1,543.0	
SERC	7	1,210.0	.0	.0	.0	.0	.0	.0	.0	.0	1,210.0	
	9	808.0	.0	.0	.0	.0	.0	.0	.0	.0	808.0	
	11	.0	.0	.0	.0	.0	2,466.0	.0	.0	.0	2,466.0	
	12	500.0	.0	.0	.0	.0	900.0	.0	.0	.0	1,400.0	
		2,518.0	.0	.0	.0	.0	3,366.0	.0	.0	.0	5,884.0	
SWPP	8	1,500.0	.0	.0	.0	.0	.0	.0	.0	.0	1,500.0	
	10	600.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	
	21	650.0	.0	.0	.0	.0	.0	.0	.0	.0	650.0	
	22	1,425.0	.0	.0	.0	.0	.0	.0	.0	.0	1,425.0	
		4,175.0	.0	.0	.0	.0	.0	.0	.0	.0	4,175.0	
WSCC	24	470.0	.0	.0	.0	.0	.0	.0	.0	.0	470.0	
	25	830.0	.0	.0	.0	.0	.0	.0	.0	.0	830.0	
	26	350.0	50.0	.0	.0	.0	.0	.0	300.0	.0	700.0	
	27	2,200.0	.0	.0	.0	.0	10.0	.0	.0	4.0	2,214.0	
	28	925.0	.0	.0	.0	50.0	.0	50.0	.0	50.0	1,075.0	
	30	.0	.0	.0	.0	.0	.0	591.0	.0	.0	591.0	
		4,775.0	50.0	.0	.0	50.0	10.0	.0	641.0	300.0	5,880.0	
TOTAL MW		19,651.0	50.0	7.7	.0	50.0	10.0	3,366.0	641.0	300.0	24,629.7	
TOTAL %		79.78	0.20	0.03	0.00	0.20	0.04	13.66	2.60	1.21	100.00	

PROPOSED GENERATING CAPACITY ADDITIONS
FOR THE PERIOD 1980 THRU 1989

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TABLE 1
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COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	1989		NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL ADDITIONS
					GEO- THERMAL	F CELL & WIND					
					NUMBER OF UNITS						
ECAR 1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	1	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	1	1
	1	0	0	0	0	0	0	0	0	0	0
ERCOT 23	6	0	0	0	0	0	0	0	0	0	6
MAAC 5	2	0	0	0	0	0	0	0	0	0	2
MAIN 6	2	0	0	0	0	0	0	0	0	0	2
17	0	0	0	0	0	0	0	0	0	0	0
19	1	0	0	0	0	0	0	0	0	0	1
	3	0	0	0	0	0	0	0	0	0	3
MARCA 20	1	0	1	0	0	0	0	0	0	0	2
NPCC 3	1	0	0	0	0	0	0	0	0	0	1
4	2	0	0	0	0	0	0	0	0	0	2
	3	0	0	0	0	0	0	0	0	0	3
SERC 7	3	0	0	0	0	0	0	0	0	0	3
9	1	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	2	0	0	0	2
12	1	0	0	0	0	0	1	0	0	0	2
	5	0	0	0	0	0	3	0	0	0	8
SWPP 8	2	0	0	0	0	0	0	0	0	0	2
10	1	0	0	0	0	0	0	0	0	0	1
21	1	0	0	0	0	0	0	0	0	0	1
22	3	0	0	0	0	0	0	0	0	0	3
	7	0	0	0	0	0	0	0	0	0	7
WSCC 24	1	0	0	0	0	0	0	0	0	0	1
25	2	0	0	0	0	0	0	0	0	0	2
26	1	0	0	0	0	0	0	0	1	0	3
27	4	0	0	0	0	0	0	0	0	0	4
28	2	0	0	0	0	1	0	1	0	1	5
30	0	0	0	0	0	0	0	4	0	0	4
	10	1	0	0	1	1	0	5	1	2	21
TOTAL NO	38	1	1	0	1	1	3	5	1	3	54
TOTAL %	70.37	1.85	1.85	0.00	1.85	1.85	5.55	9.25	1.85	5.55	100.00

PROPOSED GENERATING CAPACITY RETIREMENTS
FOR THE PERIOD 1980 THRU 1989

TABLE 2
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(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL RETIREMENTS
MEGAWATTS											
ECAR 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	129.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	121.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121.0
18	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	2.0
	250.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	252.0
ERCOT 23	2,969.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,969.0
MAAC 5	1,781.0	304.0	1.9	.0	.0	.0	.0	.0	.0	.0	2,086.9
MAIN 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	294.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	294.5
19	317.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	327.0
	611.5	.0	10.0	.0	.0	.0	.0	.0	.0	.0	621.5
MARCA 20	211.9	.0	31.1	.0	.0	.0	.0	.0	.0	.0	243.0
NPCC 3	157.6	24.9	.8	.0	.0	.0	.0	.0	.0	.0	183.3
4	420.0	17.0	.0	.0	.0	.0	.0	.0	.0	.0	437.0
	577.6	41.9	.8	.0	.0	.0	.0	.0	.0	.0	620.3
SERC 7	124.0	139.0	1.0	.0	.0	.0	.0	.0	.0	.0	264.0
9	453.0	187.0	.0	.0	.0	.0	.0	.0	.0	.0	640.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	108.0	403.0	.0	.0	.0	.0	.0	.0	.0	.0	511.0
	685.0	729.0	1.0	.0	.0	.0	.0	.0	.0	.0	1,415.0
SWPP 8	886.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	886.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	448.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	452.2
22	1,463.0	10.0	10.2	.0	.0	.0	.0	.0	.0	.0	1,483.2
	2,797.0	10.0	14.4	.0	.0	.0	.0	.0	.0	.0	2,821.4
WSCC 24	21.0	.0	.0	.0	.0	.0	840.0	.0	.0	.0	21.0
25	17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.0
26	140.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	140.0
27	379.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	379.0
28	796.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	796.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	1,353.0	.0	.0	.0	.0	.0	840.0	.0	.0	.0	2,193.0
TOTAL MW	11,236.0	1,084.9	61.2	.0	.0	.0	840.0	.0	.0	.0	13,222.1
TOTAL %	84.97	8.20	0.46	0.00	0.00	0.00	6.35	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY RETIREMENTS
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

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		1980 - 1989										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL RETIREMENTS
NUMBER OF UNITS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	4	0	0	0	0	0	0	0	0	0	4
	15	0	0	0	0	0	0	0	0	0	0	0
	16	7	0	0	0	0	0	0	0	0	0	7
	18	0	0	2	0	0	0	0	0	0	0	2
		11	0	2	0	0	0	0	0	0	0	13
ERCOT	23	48	0	0	0	0	0	0	0	0	0	48
MAAC	5	21	21	3	0	0	0	0	0	0	0	45
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	10	0	0	0	0	0	0	0	0	0	10
	19	5	0	1	0	0	0	0	0	0	0	6
		15	0	1	0	0	0	0	0	0	0	16
MARCA	20	16	0	12	0	0	0	0	0	0	0	28
NPCC	3	7	6	1	0	0	0	0	0	0	0	14
	4	10	1	0	0	0	0	0	0	0	0	11
		17	7	1	0	0	0	0	0	0	0	25
SERC	7	10	7	1	0	0	0	0	0	0	0	18
	9	12	9	0	0	0	0	0	0	0	0	21
	11	0	0	0	0	0	0	0	0	0	0	0
	12	2	14	0	0	0	0	0	0	0	0	16
		24	30	1	0	0	0	0	0	0	0	55
SWPP	8	16	0	0	0	0	0	0	0	0	0	16
	10	0	0	0	0	0	0	0	0	0	0	0
	21	16	0	3	0	0	0	0	0	0	0	19
	22	25	1	4	0	0	0	0	0	0	0	30
		57	1	7	0	0	0	0	0	0	0	65
WSCC	24	3	0	0	0	0	0	0	0	0	0	3
	25	2	0	0	0	0	0	0	0	0	0	4
	26	6	0	0	0	0	0	0	0	0	0	6
	27	8	0	0	0	0	0	0	0	0	0	8
	28	5	0	0	0	0	0	0	0	0	0	5
	30	0	0	0	0	0	0	0	0	0	0	0
		24	0	0	0	0	0	2	0	0	0	26
TOTAL NO		233	59	27	0	0	0	2	0	0	0	321
TOTAL %		72.58	18.38	8.41	0.00	0.00	0.00	0.62	0.00	0.00	0.00	100.00

TABLE 2
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(INCLUDES ONLY CONTIGUOUS U.S.)

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1980

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(INCLUDES ONLY CONTIGUOUS U.S.)

1981

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TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

[illegible]

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1982

[illegible]

(INCLUDES ONLY CONTIGUOUS U.S.)

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PROPOSED GENERATING CAPACITY RETIREMENTS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1983												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL RETIREMENTS	
MEGAWATTS												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ERCOT	23	125.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125.0
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	19	293.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	293.0
		293.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	293.0
MARCA	20	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0	7.1
NPCC	3	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8
	4	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.0
		19.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.8
SERC	7	7.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	8.0
	9	55.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		62.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	63.0
SWPP	8	99.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.0
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	21	162.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162.0
	22	98.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98.0
		359.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	359.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0	840.0	.0	.0	.0	.0	840.0
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	840.0	.0	.0	.0	.0	840.0
TOTAL MW		858.8	.0	8.1	.0	.0	840.0	.0	.0	.0	.0	1,706.9
TOTAL %		50.31	0.00	0.47	0.00	0.00	49.21	0.00	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY RETIREMENTS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

		1983										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL RETIREMENTS
		NUMBER OF UNITS										
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
ERCOT	23	3	0	0	0	0	0	0	0	0	0	3
MAAC	5	0	0	0	0	0	0	0	0	0	0	0
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0
	19	2	0	0	0	0	0	0	0	0	0	2
		2	0	0	0	0	0	0	0	0	0	2
MARCA	20	0	0	3	0	0	0	0	0	0	0	3
NPCC	3	1	0	0	0	0	0	0	0	0	0	1
	4	1	0	0	0	0	0	0	0	0	0	1
		2	0	0	0	0	0	0	0	0	0	2
SERC	7	1	0	1	0	0	0	0	0	0	0	2
	9	1	0	0	0	0	0	0	0	0	0	1
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		2	0	1	0	0	0	0	0	0	0	3
SWPP	8	2	0	0	0	0	0	0	0	0	0	2
	10	0	0	0	0	0	0	0	0	0	0	0
	21	3	0	0	0	0	0	0	0	0	0	3
	22	3	0	0	0	0	0	0	0	0	0	3
		8	0	0	0	0	0	0	0	0	0	8
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
TOTAL NO		17	0	4	0	0	0	2	0	0	0	23
TOTAL %		73.91	0.00	17.39	0.00	0.00	0.00	8.69	0.00	0.00	0.00	100.00

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1984

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(INCLUDES ONLY CONTIGUOUS U.S.)

1985

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PROPOSED GENERATING CAPACITY RETIREMENTS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	1985			NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL RETIREMENTS
					GEO- THERMAL	F CELL & WIND						
					NUMBER OF UNITS							
ECAR	1	0	0	0	0	0		0	0	0	0	0
	2	0	0	0	0	0		0	0	0	0	0
	13	0	0	0	0	0		0	0	0	0	0
	14	0	0	0	0	0		0	0	0	0	0
	15	0	0	0	0	0		0	0	0	0	0
	16	0	0	0	0	0		0	0	0	0	0
	18	0	0	0	0	0		0	0	0	0	0
	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----
	3	0	0	0	0	0		0	0	0	0	3
ERCOT	23	9	0	0	0	0		0	0	0	0	9
MAAC	5	1	0	0	0	0		0	0	0	0	1
MAIN	6	0	0	0	0	0		0	0	0	0	0
	17	0	0	0	0	0		0	0	0	0	0
	19	0	0	0	0	0		0	0	0	0	0
	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----
	0	0	0	0	0	0		0	0	0	0	0
MARCA	20	0	0	0	0	0		0	0	0	0	0
NPCC	3	0	0	0	0	0		0	0	0	0	0
	4	0	0	0	0	0		0	0	0	0	0
	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----
	0	0	0	0	0	0		0	0	0	0	0
SERC	7	1	0	0	0	0		0	0	0	0	1
	9	0	0	0	0	0		0	0	0	0	0
	11	0	0	0	0	0		0	0	0	0	0
	12	0	0	0	0	0		0	0	0	0	0
	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----
	1	6	0	0	0	0		0	0	0	0	7
SWPP	8	2	0	0	0	0		0	0	0	0	2
	10	0	0	0	0	0		0	0	0	0	0
	21	0	0	0	0	0		0	0	0	0	0
	22	0	0	0	0	0		0	0	0	0	0
	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----
	7	0	0	0	0	0		0	0	0	0	7
WSCC	24	0	0	0	0	0		0	0	0	0	0
	25	0	0	0	0	0		0	0	0	0	0
	26	0	0	0	0	0		0	0	0	0	0
	27	0	0	0	0	0		0	0	0	0	0
	28	0	0	0	0	0		0	0	0	0	0
	30	0	0	0	0	0		0	0	0	0	0
	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----
	1	0	0	0	0	0		0	0	0	0	1
TOTAL NO	22	6	0	0	0	0		0	0	0	0	28
TOTAL %	78.57	21.42	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	100.00

(INCLUDES ONLY CONTIGUOUS U.S.)

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(INCLUDES ONLY CONTIGUOUS U.S.)

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COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL RETIREMENTS
		NUMBER OF UNITS										
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		0	0	0	0	0	0	0	0	0	0	0
ERCOT	23	3	0	0	0	0	0	0	0	0	0	3
MAAC	5	3	14	1	0	0	0	0	0	0	0	18
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	2	0	0	0	0	0	0	0	0	0	2
	19	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		2	0	0	0	0	0	0	0	0	0	2
MARCA	20	5	0	4	0	0	0	0	0	0	0	9
NPCC	3	3	0	0	0	0	0	0	0	0	0	3
	4	3	0	0	0	0	0	0	0	0	0	3
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		6	0	0	0	0	0	0	0	0	0	6
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	2	3	0	0	0	0	0	0	0	0	5
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		2	3	0	0	0	0	0	0	0	0	5
SWPP	8	2	0	0	0	0	0	0	0	0	0	2
	10	0	0	0	0	0	0	0	0	0	0	0
	21	1	0	0	0	0	0	0	0	0	0	1
	22	1	0	0	0	0	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		4	0	0	0	0	0	0	0	0	0	4
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	1	0	0	0	0	0	0	0	0	0	1
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	0	0								

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

1988

[illegible]

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(INCLUDES ONLY CONTIGUOUS U.S.)

1989

[illegible]

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

COUNCIL/REGION	1989										
	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL RETIREMENTS
	NUMBER OF UNITS										
ECAR 1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	4	0	0	0	0	0	0	0	0	0	4
18	0	0	0	0	0	0	0	0	0	0	0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	4	0	0	0	0	0	0	0	0	0	4
ERCOT 23	2	0	0	0	0	0	0	0	0	0	2
MAAC 5	1	5	0	0	0	0	0	0	0	0	6
MAIN 6	0	0	0	0	0	0	0	0	0	0	0
17	2	0	0	0	0	0	0	0	0	0	2
19	1	0	0	0	0	0	0	0	0	0	1
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	3	0	0	0	0	0	0	0	0	0	3
MARCA 20	0	0	0	0	0	0	0	0	0	0	0
NPCC 3	0	0	0	0	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	1
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	1	0	0	0	0	0	0	0	0	0	1
SERC 7	0	7	0	0	0	0	0	0	0	0	7
9	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0
12	2	0	0	0	0	0	0	0	0	0	2
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	2	7	0	0	0	0	0	0	0	0	9
SWPP 8	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0
21	1	0	0	0	0	0	0	0	0	0	1
22	3	0	0	0	0	0	0	0	0	0	3
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	4	0	0	0	0	0	0	0	0	0	4
WSCC 24	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	2	0	0	0	0	0	0	0	0	0	2
28	1	0	0	0	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	3	0	0	0	0	0	0	0	0	0	3
TOTAL NO	20	12	0	0	0	0	0	0	0	0	32
TOTAL %	62.50	37.50	0.00								

PROPOSED GENERATING CAPACITY UPDATINGS
FOR THE PERIOD 1980 THRU 1989

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TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989

COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPDATINGS
MEGAWATTS												
ECAR	1	46.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46.0
	2	140.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	140.0
	13	60.0	14.0	.0	.0	.0	.0	72.0	.0	.0	.0	146.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18	197.0	.0	.0	.0	.0	.0	635.0	.0	.0	.0	832.0
		443.0	14.0	.0	.0	.0	.0	707.0	.0	.0	.0	1,164.0
ERCOT	23	30.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0
MAAC	5	.0	156.0	.0	8.0	.0	.0	.0	.0	.0	32.0	196.0
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	336.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	336.0
	19	13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0
		349.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	349.0
MARCA	20	101.0	.0	.0	.0	.0	.0	29.0	.0	.0	.0	130.0
NPCC	3	21.4	2.4	.0	.0	.0	.0	12.0	8.6	.0	.0	44.4
	4	57.0	.0	.0	.0	.0	.0	9.0	.0	.0	.0	66.0
		78.4	2.4	.0	.0	.0	.0	21.0	8.6	.0	.0	110.4
SERC	7	179.0	.0	.0	.0	.0	.0	74.0	.0	.0	.0	179.0
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	105.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105.0
		284.0	.0	.0	.0	.0	.0	74.0	.0	.0	.0	358.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	21	65.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	85.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		65.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	85.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	28.0	72.0	.0	100.0
	25	.0	.0	.0	.0	.0	.0	.0	119.0	.0	.0	119.0
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	27	56.0	49.0	.0	.0	.0	.0	.0	6.0	.0	.0	111.0
	28	.0	.0	.0	.0	.0	.0	.0	15.0	.0	.0	15.0
	30	.0	.0	.0	.0	.0	.0	.0	43.0	.0	.0	43.0
		56.0	49.0	.0	.0	.0	.0	.0	211.0	72.0	.0	388.0
TOTAL MW		1,406.4	241.4	.0	8.0	.0	.0	831.0	219.6	72.0	32.0	2,810.4
TOTAL %		50.04	8.58	0.00	0.28	0.00	0.00	29.56	7.81	2.56	1.13	100.00

PROPOSED GENERATING CAPACITY UPDATINGS
FOR THE PERIOD 1980 THRU 1989

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TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989

COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPDATINGS
NUMBER OF UPDATINGS												
ECAR	1	1	0	0	0	0	0	0	0	0	0	1
	2	1	0	0	0	0	0	0	0	0	0	1
	13	6	3	0	0	0	0	4	0	0	0	13
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	5	0	0	0	0	0	1	0	0	0	6
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		13	3	0	0	0	0	5	0	0	0	21
ERCOT	23	1	0	0	0	0	0	0	0	0	0	1
MAAC	5	0	3	0	1	0	0	0	0	0	1	5
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	6	0	0	0	0	0	0	0	0	0	6
	19	1	0	0	0	0	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		7	0	0	0	0	0	0	0	0	0	7
MARCA	20	14	0	4	0	0	0	2	0	0	0	20
NPCC	3	1	2	0	0	0	0	1	4	0	0	8
	4	7	0	0	0	0	0	1	0	0	0	8
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		8	2	0	0	0	0	2	4	0	0	16
SERC	7	7	0	0	0	0	0	0	0	0	0	7
	9	0	0	0	0	0	0	2	0	0	0	2
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		9	0	0	0	0	0	2	0	0	0	11
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	5	4	0	0	0	0	0	0	0	0	9
	22	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		5	4	0	0	0	0	0	0	0	0	9
WSCC	24	0	0	0	0	0	0	0	3	1	0	4
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	1	2	0	0	0	0	0	2	0	0	5
	28	0	0	0	0	0	0	0	1	0	0	1
	30	0	0	0	0	0	0	0	4	0	0	4
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	2	0	0	0	0	0	15	1	0	19
TOTAL NO		58	14	4	1	0	0	11	19	1	1	109
TOTAL %		53.21	12.84	3.66	0.91	0.00	0.00	10.09	17.43	0.91	0.91	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1980												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS	
MEGAWATTS												
ECAR	1	46.0	.0	.0	.0	.0	.0	.0	.0	.0	46.0	
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	13	1.0	.0	.0	.0	.0	12.0	.0	.0	.0	13.0	
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		47.0	.0	.0	.0	.0	12.0	.0	.0	.0	59.0	
FRCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
MAAC	5	.0	.0	.0	8.0	.0	.0	.0	.0	.0	8.0	
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
MARCA	20	.0	.0	.0	.0	.0	25.0	.0	.0	.0	25.0	
NPCC	3	.0	.3	.0	.0	.0	9.0	3.0	.0	.0	3.3	
	4	.0	.0	.0	.0	.0	9.0	.0	.0	.0	9.0	
		.0	.3	.0	.0	.0	9.0	3.0	.0	.0	12.3	
SERC	7	50.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	12	105.0	.0	.0	.0	.0	.0	.0	.0	.0	105.0	
		155.0	.0	.0	.0	.0	.0	.0	.0	.0	155.0	
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	21	8.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		8.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	
WSCC	24	.0	.0	.0	.0	.0	.0	4.0	.0	.0	4.0	
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		.0	.0	.0	.0	.0	.0	4.0	.0	.0	4.0	
TOTAL MW		210.0	.3	.0	8.0	.0	46.0	7.0	.0	.0	271.3	
TOTAL %		77.40	0.11	0.00	2.94	0.00	16.95	2.58	0.00	0.00	100.00	

PROPOSED GENERATING CAPACITY UPDATINGS
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(INCLUDES ONLY CONTIGUOUS U.S.)

		1980										TOTAL UPRATINGS
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	
NUMBER OF UPRATINGS												
ECAR	1	1	0	0	0	0	0	0	0	0	0	1
	2	0	0	0	0	0	0	0	0	0	0	0
	13	1	0	0	0	0	0	2	0	0	0	3
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	2	0	0	0	4
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	0	0	0	1	0	0	0	0	0	0	1
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
MARCA	20	1	0	4	0	0	0	1	0	0	0	6
NPCC	3	0	1	0	0	0	0	0	2	0	0	3
	4	0	0	0	0	0	0	1	0	0	0	1
		0	1	0	0	0	0	1	2	0	0	4
SFRC	7	1	0	0	0	0	0	0	0	0	0	1
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	2	0	0	0	0	0	0	0	0	0	2
		3	0	0	0	0	0	0	0	0	0	3
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	2	0	0	0	0	0	0	0	0	0	2
	22	0	0	0	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0	0	2
WSCC	24	0	0	0	0	0	0	0	1	0	0	1
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	0	0	1
TOTAL NO		8	1	4	1	0	0	4	3	0	0	21
TOTAL %		38.09	4.76	19.04	4.76	0.00	0.00	19.04	14.28	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY UPDATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1981

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPDATINGS
MEGAWATTS											
ECAR 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	140.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	140.0
13	49.0	6.0	.0	.0	.0	.0	30.0	.0	.0	.0	85.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	189.0	6.0	.0	.0	.0	.0	30.0	.0	.0	.0	225.0
ERCOT 23	30.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0
MAAC 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAIN 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	60.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60.0
19	13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0
	73.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73.0
MARCA 20	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	4.0
NPCC 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SERC 7	129.0	.0	.0	.0	.0	.0	37.0	.0	.0	.0	129.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	129.0	.0	.0	.0	.0	.0	37.0	.0	.0	.0	166.0
SWPP 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	42.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	42.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42.0
WSCC 24	.0	.0	.0	.0	.0	.0	.0	12.0	72.0	.0	84.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	56.0	49.0	.0	.0	.0	.0	.0	.0	.0	.0	105.0
28	.0	.0	.0	.0	.0	.0	.0	15.0	.0	.0	15.0
30	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	10.0
	56.0	49.0	.0	.0	.0	.0	.0	37.0	72.0	.0	214.0
TOTAL MW	519.0	55.0	.0	.0	.0	.0	71.0	37.0	72.0	.0	754.0
TOTAL %	68.83	7.29	0.00	0.00	0.00	0.00	9.41	4.90	9.54	0.00	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
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		1981										TOTAL UPRATINGS
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	
NUMBER OF UPRATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	1	0	0	0	0	0	1	0	0	0	1
	13	4	1	0	0	0	0	0	0	0	0	6
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		5	1	0	0	0	0	1	0	0	0	7
ERCOT	23	1	0	0	0	0	0	0	0	0	0	1
MAAC	5	0	0	0	0	0	0	0	0	0	0	0
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	2	0	0	0	0	0	0	0	0	0	2
	19	1	0	0	0	0	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		3	0	0	0	0	0	0	0	0	0	3
MARCA	20	0	0	0	0	0	0	1	0	0	0	1
NPCC	3	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		0	0	0	0	0	0	0	0	0	0	0
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	1	0	0	0	1
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		3	0	0	0	0	0	1	0	0	0	4
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		2	0	0	0	0	0	0	0	0	0	2
WSCC	24	0	0	0	0	0	0	0	1	1	0	2
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	1	0	0	1
	30	0	0	0	0	0	0	0	1	0	0	1
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	2	0	0	0	0	0	3	1	0	7
TOTAL NO		15	3	0	0	0	0	3	3	1	0	25
TOTAL %		60.00	12.00	0.00	0.00	0.00	0.00	12.00	12.00	4.00	0.00	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
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		1982										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPPATINGS
		MEGAWATTS										
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	10.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	14.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		10.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	14.0
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	158.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		158.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158.0
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NPCC	3	.0	.0	.0	.0	.0	.0	12.0	5.6	.0	.0	17.6
	4	17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.0
		17.0	.0	.0	.0	.0	.0	12.0	5.6	.0	.0	34.6
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	21	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	12.0	.0	.0	12.0
	25	.0	.0	.0	.0	.0	.0	.0	39.0	.0	.0	39.0
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0	.0	.0	11.0	.0	.0	11.0
		.0	.0	.0	.0	.0	.0	.0	65.0	.0	.0	65.0
TOTAL MW		200.0	4.0	.0	.0	.0	.0	12.0	70.6	.0	.0	286.6
TOTAL %		69.78	1.39	0.00	0.00	0.00	0.00	4.18	24.63	0.00	0.00	100.00

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		1982										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS
NUMBER OF UPRATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	1	1	0	0	0	0	0	0	0	0	2
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	1	0	0	0	0	0	0	0	0	2
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	0	0	0	0	0	0	0	0	0	0	0
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	1	0	0	0	0	0	0	0	0	0	1
	19	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	0	0	0	0	0	0	0	0	0	1
MARCA	20	0	0	0	0	0	0	0	0	0	0	0
NPCC	3	0	0	0	0	0	0	1	2	0	0	3
	4	1	0	0	0	0	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	0	0	0	0	0	1	2	0	0	4
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		0	0	0	0	0	0	0	0	0	0	0
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	1	0	0	0	0	0	0	0	0	0	1
	22	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	0	0	0	0	0	0	0	0	0	1
WSCC	24	0	0	0	0	0	0	0	1	0	0	1
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	1	0	0	1
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	1	0	0	1
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		0	0	0	0	0	0	0	4	0	0	4
TOTAL NO		4	1	0	0	0	0	1	6	0	0	12
TOTAL %		33.33	8.33	0.00	0.00	0.00	0.00	8.33	50.00	0.00	0.00	100.00

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COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS
MEGAWATTS												
FCAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18	197.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197.0
		197.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	201.0
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC	5	.0	156.0	.0	.0	.0	.0	.0	.0	.0	32.0	188.0
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	118.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		118.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118.0
MARCA	20	101.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101.0
NPCC	3	21.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.4
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		21.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.4
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0	.0	.0	80.0	.0	.0	80.0
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0	.0	.0	22.0	.0	.0	22.0
		.0	.0	.0	.0	.0	.0	.0	102.0	.0	.0	102.0
TOTAL MW		437.4	160.0	.0	.0	.0	.0	.0	102.0	.0	32.0	731.4
TOTAL %		59.80	21.87	0.00	0.00	0.00	0.00	0.00	13.94	0.00	4.37	100.00

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		1983										TOTAL UPRATINGS
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	
NUMBER OF UPRATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		5	0	0	0	0	0	0	0	0	0	5
		5	1	0	0	0	0	0	0	0	0	6
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	0	3	0	0	0	0	0	0	0	1	4
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0	0	3
MARCA	20	13	0	0	0	0	0	0	0	0	0	13
NPCC	3	1	0	0	0	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	0	0	0	0
		1	0	0	0	0	0	0	0	0	0	1
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	2	0	0	2
		0	0	0	0	0	0	0	6	0	0	6
TOTAL NO		22	4	0	0	0	0	0	6	0	1	33
TOTAL %		66.66.	12.12	0.00	0.00	0.00	0.00	0.00	18.18	0.00	3.03	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1984

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS
MEGAWATTS											
ECAR 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ERCOT 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAIN 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MARCA 20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NPCC 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	40.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	40.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0
SERC 7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSCC 24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0
TOTAL MW	40.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	43.0
TOTAL %	93.02	0.00	0.00	0.00	0.00	0.00	0.00	6.97	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

		1984										TOTAL UPRATINGS
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	
NUMBER OF UPRATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	0	0	0	0	0	0	0	0	0	0	0
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
MARCA	20	0	0	0	0	0	0	0	0	0	0	0
NPCC	3	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	0	0	1
TOTAL NO		6	0	0	0	0	0	0	1	0	0	7
1	%	85.71	0.00	0.00	0.00	0.00	0.00	0.00	14.28	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY UPDATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1985

COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPDATINGS
MEGAWATTS												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0	.0	37.0	.0	.0	.0	37.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	37.0	.0	.0	.0	37.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL MW		.0	.0	.0	.0	.0	.0	37.0	.0	.0	.0	37.0
TOTAL %		0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

		1985										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS
		NUMBER OF UPRATINGS										
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	0	0	0	0	0	0	0	0	0	0	0
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MARCA	20	0	0	0	0	0	0	0	0	0	0	0
NPCC	3	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SWPP	8	0	0	0	0	0	0	1	0	0	0	1
	10	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL NO		0	0	0	0	0	0	1	0	0	0	1
TOTAL %		0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00

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(INCLUDES ONLY CONTIGUOUS U.S.)

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PROPOSED GENERATING CAPACITY UPRATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

		1988										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS
		MEGAWATTS										
ECAR	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	13	.00	.00	.00	.00	.00	.00	30.00	.00	.00	.00	30.00
	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	30.0
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAIN	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NPCC	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SERC	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSCC	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	30.0
TOTAL MW		.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	30.0
TOTAL %		0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

TABLE 3
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		1988											
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS	
NUMBER OF UPRATINGS													
ECAR	1	0	0	0	0	0	0	0	0	0	0	0	
	2	0	0	0	0	0	0	0	0	0	0	0	
	13	0	0	0	0	0	0	0	0	0	0	0	
	14	0	0	0	0	0	0	0	0	0	0	0	
	15	0	0	0	0	0	0	0	0	0	0	0	
	16	0	0	0	0	0	0	0	0	0	0	0	
	18	0	0	0	0	0	0	0	0	0	0	0	
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
FRCOT	23	0	0	0	0	0	0	1	0	0	0	1	
MAAC	5	0	0	0	0	0	0	0	0	0	0	0	
MAIN	6	0	0	0	0	0	0	0	0	0	0	0	
	17	0	0	0	0	0	0	0	0	0	0	0	
	19	0	0	0	0	0	0	0	0	0	0	0	
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
MARCA	20	0	0	0	0	0	0	0	0	0	0	0	
NPCC	3	0	0	0	0	0	0	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	0	0	0	
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
SERC	7	3	0	0	0	0	0	0	0	0	0	0	
	9	0	0	0	0	0	0	0	0	0	0	0	
	11	0	0	0	0	0	0	0	0	0	0	0	
	12	0	0	0	0	0	0	0	0	0	0	0	
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
SWPP	8	0	0	0	0	0	0	0	0	0	0	0	
	10	0	0	0	0	0	0	0	0	0	0	0	
	21	0	0	0	0	0	0	0	0	0	0	0	
	22	0	0	0	0	0	0	0	0	0	0	0	
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
WSCC	24	0	0	0	0	0	0	0	0	0	0	0	
	25	0	0	0	0	0	0	0	0	0	0	0	
	26	0	0	0	0	0	0	0	0	0	0	0	
	27	0	0	0	0	0	0	0	0	0	0	0	
	28	0	0	0	0	0	0	0	0	0	0	0	
	30	0	0	0	0	0	0	0	0	0	0	0	
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
TOTAL NO		3	0	0	0	0	0	1	0	0	0	4	
TOTAL %		75.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	100.00	

PROPOSED GENERATING CAPACITY UPRATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1989

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS
MEGAWATTS											
ECAR 1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	635.00	.00	.00	.00	635.00
	.00	.00	.00	.00	.00	.00	635.00	.00	.00	.00	635.00
ERCOT 23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAAC 5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAIN 6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MARCA 20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NPCC 3	.00	2.1	.00	.00	.00	.00	.00	.00	.00	.00	2.1
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	2.1	.00	.00	.00	.00	.00	.00	.00	.00	2.1
SERC 7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SWPP 8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSCC 24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL MW	.00	2.1	.00	.00	.00	.00	635.00	.00	.00	.00	637.1
TOTAL %	0.00	0.32	0.00	0.00	0.00	0.00	99.67	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY UPRATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

		1989										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL UPRATINGS
NUMBER OF UPRATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	1	0	0	0	1
		0	0	0	0	0	0	1	0	0	0	1
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	0	0	0	0	0	0	0	0	0	0	0
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
MARCA	20	0	0	0	0	0	0	0	0	0	0	0
NPCC	3	0	1	0	0	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	0	0	0	0
		0	1	0	0	0	0	0	0	0	0	1
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
TOTAL NO		0	1	0	0	0	0	1	0	0	0	2
TOTAL %		0.00	50.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989

COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS
MEGAWATTS												
ECAR	1	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	392.0	29.0	1.0	143.0	.0	.0	62.0	.0	.0	.0	627.0
	14	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
	15	613.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	613.0
	16	255.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255.0
	18	.0	.0	.0	.0	.0	.0	635.0	.0	.0	.0	635.0
		1,275.0	29.0	1.0	143.0	.0	.0	697.0	.0	.0	.0	2,145.0
ERCOT	23	30.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0
MAAC	5	523.1	519.0	1.2	.0	.0	.0	.0	.0	.0	32.0	1,075.3
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	26.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		26.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26.0
MARCA	20	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
NPCC	3	61.2	2.1	.0	.0	.0	.0	.0	.0	.0	.0	63.3
	4	123.0	47.0	.0	.0	.0	.0	.0	.0	.0	.0	170.0
		184.2	49.1	.0	.0	.0	.0	.0	.0	.0	.0	233.3
SERC	7	101.0	26.0	1.0	.0	.0	.0	.0	.0	.0	.0	128.0
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		101.0	26.0	1.0	.0	.0	.0	.0	.0	.0	.0	128.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	50.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0
	21	253.0	11.0	.0	.0	.0	.0	.0	.0	.0	.0	264.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		303.0	11.0	.0	.0	.0	.0	.0	.0	.0	.0	314.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	25	.0	.0	.0	72.0	.0	.0	.0	.0	.0	.0	72.0
	26	42.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42.0
	27	66.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66.0
	28	.0	.0	.0	19.0	.0	.0	.0	40.0	.0	.0	59.0
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		108.0	.0	.0	91.0	.0	.0	.0	40.0	.0	.0	239.0
TOTAL MW		2,555.3	634.1	3.2	234.0	.0	.0	697.0	40.0	.0	32.0	4,195.6
TOTAL %		60.90	15.11	0.07	5.57	0.00	0.00	16.61	0.95	0.00	0.76	100.00

PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS	
NUMBER OF DERATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	1	
	2	0	0	0	0	0	0	0	0	0	0	
	13	24	4	2	0	0	1	0	0	0	32	
	14	1	0	0	0	0	0	0	0	0	1	
	15	9	0	0	0	0	0	0	0	0	9	
	16	5	0	0	0	0	0	0	0	0	5	
	18	0	0	0	0	0	1	0	0	0	1	
	40	4	1	2	0	0	2	0	0	0	49	
ERCOT	23	1	0	0	0	0	0	0	0	0	1	
MAAC	5	16	5	0	0	0	0	0	0	1	24	
MAIN	6	0	0	0	0	0	0	0	0	0	0	
	17	2	0	0	0	0	0	0	0	0	2	
	19	0	0	0	0	0	0	0	0	0	0	
	2	0	0	0	0	0	0	0	0	0	2	
MARCA	20	10	0	0	0	0	0	0	0	0	10	
NPCC	3	1	2	0	0	0	0	0	0	0	3	
	4	12	4	0	0	0	0	0	0	0	16	
	13	6	0	0	0	0	0	0	0	0	19	
SERC	7	4	2	0	0	0	0	0	0	0	7	
	9	0	0	0	0	0	0	0	0	0	0	
	11	0	0	0	0	0	0	0	0	0	0	
	12	0	0	0	0	0	0	0	0	0	0	
	4	2	1	0	0	0	0	0	0	0	7	
SWPP	8	0	0	0	0	0	0	0	0	0	0	
	10	2	0	0	0	0	0	0	0	0	2	
	21	10	1	0	0	0	0	0	0	0	11	
	22	0	0	0	0	0	0	0	0	0	0	
	12	1	0	0	0	0	0	0	0	0	13	
WSCC	24	0	0	0	0	0	0	0	0	0	0	
	25	0	0	2	0	0	0	0	0	0	2	
	26	3	0	0	0	0	0	0	0	0	3	
	27	2	0	1	0	0	0	0	0	0	3	
	28	0	0	0	0	0	0	2	0	0	2	
	30	0	0	0	0	0	0	0	0	0	0	
	5	0	0	3	0	0	0	2	0	0	10	
TOTAL NO	103	18	4	5	0	0	2	2	0	1	135	
TOTAL %	76.29	13.33	2.96	3.70	0.00	0.00	1.48	1.48	0.00	0.74	100.00	

PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

		1980										TOTAL DERATINGS
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	
MEGAWATTS												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	392.0	29.0	1.0	143.0	.0	.0	.0	.0	.0	.0	565.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		397.0	29.0	1.0	143.0	.0	.0	.0	.0	.0	.0	570.0
ERCOT	23	30.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0
MAAC	5	137.5	118.0	.0	.0	.0	.0	.0	.0	.0	32.0	287.5
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.0
MARCA	20	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
NPCC	3	61.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	61.2
	4	57.0	47.0	.0	.0	.0	.0	.0	.0	.0	.0	104.0
		118.2	47.0	.0	.0	.0	.0	.0	.0	.0	.0	165.2
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	21	95.0	11.0	.0	.0	.0	.0	.0	.0	.0	.0	106.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		95.0	11.0	.0	.0	.0	.0	.0	.0	.0	.0	106.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	74.0
TOTAL MW		793.2	205.0	1.0	215.0	.0	.0	.0	2.0	.0	32.0	1,248.2
TOTAL %		63.54	16.42	0.08	17.22	0.00	0.00	0.00	0.16	0.00	2.56	100.00

PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1989

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(INCLUDES ONLY CONTIGUOUS U.S.)

		1980										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS
NUMBER OF DERATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	24	4	1	2	0	0	0	0	0	0	31
	14	1	0	0	0	0	0	0	0	0	0	1
	15	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		25	4	1	2	0	0	0	0	0	0	32
ERCOT	23	1	0	0	0	0	0	0	0	0	0	1
MAAC	5	2	3	0	0	0	0	0	0	0	1	6
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	1	0	0	0	0	0	0	0	0	0	1
	19	0	0	0	0	0	0	0	0	0	0	0
		1	0	0	0	0	0	0	0	0	0	1
MARCA	20	1	0	0	0	0	0	0	0	0	0	1
NPCC	3	1	0	0	0	0	0	0	0	0	0	1
	4	7	4	0	0	0	0	0	0	0	0	11
		8	4	0	0	0	0	0	0	0	0	12
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	6	1	0	0	0	0	0	0	0	0	7
	22	0	0	0	0	0	0	0	0	0	0	0
		6	1	0	0	0	0	0	0	0	0	7
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	2	0	0	0	0	0	0	2
	26	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	1	0	0	1
	30	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	2	0	0	0	1	0	0	3
TOTAL NO		44	12	1	4	0	0	0	1	0	1	63
TOTAL %		69.84	19.04	1.58	6.34	0.00	0.00	0.00	1.58	0.00	1.58	100.00

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(INCLUDES ONLY CONTIGUOUS U.S.)

1981

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PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1982												
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS	
MEGAWATTS												
FCAR	1	10.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	13	.0	.0	.0	.0	.0	62.0	.0	.0	.0	62.0	
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	15	6.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		16.0	.0	.0	.0	.0	62.0	.0	.0	.0	78.0	
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
MAAC	5	32.0	.0	.0	.0	.0	.0	.0	.0	.0	32.0	
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
MARCA	20	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4	6.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	
		6.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	
SERC	7	90.0	26.0	1.0	.0	.0	.0	.0	.0	.0	117.0	
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		90.0	26.0	1.0	.0	.0	.0	.0	.0	.0	117.0	
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	21	30.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0	
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		30.0	.0	.0	.0	.0	.0	.0	.0	.0	30.0	
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	26	27.0	.0	.0	.0	.0	.0	.0	.0	.0	27.0	
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		27.0	.0	.0	.0	.0	.0	.0	.0	.0	27.0	
TOTAL MW		201.5	26.0	1.0	.0	.0	62.0	.0	.0	.0	290.5	
TOTAL %		69.36	8.95	0.34	0.00	0.00	21.34	0.00	0.00	0.00	100.00	

PROPOSED GENERATING CAPACITY DERATINGS
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[INCLUDES ONLY CONTIGUOUS U.S.]

1982											
COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS
NUMBER OF DERATINGS											
ECAR	1	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	1	0	0	0	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	1	0	0	0	3
ERCOT	23	0	0	0	0	0	0	0	0	0	0
MAAC	5	6	0	0	0	0	0	0	0	0	6
MAIN	6	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
MARCA	20	1	0	0	0	0	0	0	0	0	1
NPCC	3	0	0	0	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	0	0	1
SERC	7	3	2	0	0	0	0	0	0	0	6
9	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0
	3	2	1	0	0	0	0	0	0	0	6
SWPP	8	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0
21	1	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	1
WSCC	24	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	2
TOTAL NO	16	2	1	0	0	0	1	0	0	0	20
TOTAL %	80.00	10.00	5.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY DERATINGS
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1983

COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GED- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS
MEGAWATTS												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	15	70.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70.0
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		70.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70.0
ERCOT	23	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC	5	23.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.7
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MARCA	20	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0
		6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	21	123.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123.0
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		123.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123.0
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	26	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.0
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	28	.0	.0	.0	19.0	.0	.0	.0	38.0	.0	.0	57.0
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
		15.0	.0	.0	19.0	.0	.0	.0	38.0	.0	.0	72.0
TOTAL MW		238.2	.0	.0	19.0	.0	.0	.0	38.0	.0	.0	295.2
TOTAL %		80.69	0.00	0.00	6.43	0.00	0.00	0.00	12.87	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1985

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(INCLUDES ONLY CONTIGUOUS U.S.)

		1983										
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS
NUMBER OF DERATINGS												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0	0	0	0
	15	1	0	0	0	0	0	0	0	0	0	1
	16	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	0	0	0	0	0	0	0	0	0	1
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	3	0	0	0	0	0	0	0	0	0	3
MAIN	6	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		0	0	0	0	0	0	0	0	0	0	0
MARCA	20	1	0	0	0	0	0	0	0	0	0	1
NPCC	3	0	0	0	0	0	0	0	0	0	0	0
	4	1	0	0	0	0	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	0	0	0	0	0	0	0	0	0	1
SERC	7	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		0	0	0	0	0	0	0	0	0	0	0
SWPP	8	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		2	0	0	0	0	0	0	0	0	0	2
WSCC	24	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0
	26	1	0	0	0	0	0	0	0	0	0	1
	27	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	1	0	0	1
	30	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		1	0	0	1	0	0	0	1	0	0	3
TOTAL NO		9	0	0	1	0	0	0	1	0	0	11
TOTAL %		81.81	0.00	0.00	9.09	0.00	0.00	0.00	9.09	0.00	0.00	100.00

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PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

1987

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS
MEGAWATTS											
ECAR 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	141.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	141.0	.0	.0	.0	.0	.0	635.0	.0	.0	.0	635.0
ERCOT 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC 5	292.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	292.6
MAIN 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MARCA 20	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
NPCC 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SERC 7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	50.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	50.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0
WSCC 24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL MW	483.5	.0	.6	.0	.0	.0	635.0	.0	.0	.0	1,119.1
TOTAL %	43.20	0.00	0.05	0.00	0.00	0.00	56.74	0.00	0.00	0.00	100.00

PROPOSED GENERATING CAPACITY DERATINGS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

		1987											
COUNCIL/REGION		FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS	
NUMBER OF DERATINGS													
FCAR	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0
	13	0	0	0	0	0	0	0	0	0	0	0	0
	14	1	0	0	0	0	0	0	0	0	0	1	0
	15	0	0	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0	0	0	0	0
		1	0	0	0	0	0	1	0	0	0	1	2
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0	0
MAAC	5	2	0	1	0	0	0	0	0	0	0	3	3
MAIN	6	0	0	0	0	0	0	0	0	0	0	0	0
	17	0	0	0	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
MARCA	20	1	0	0	0	0	0	0	0	0	0	1	1
NPCC	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
SERC	7	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
SWPP	8	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0	0	2	2
WSCC	24	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0	0	0	0
	27	0	0	0	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
TOTAL NO		6	0	1	0	0	0	1	0	0	0	8	8
TOTAL %		75.00	0.00	12.50	0.00	0.00	0.00	12.50	0.00	0.00	0.00	100.00	100.00

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(INCLUDES ONLY CONTIGUOUS U.S.)

1988

[illegible]

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

[illegible]

(INCLUDES ONLY CONTIGUOUS U.S.)

1989

COUNCIL/REGION	FOSSIL STEAM	COMBUSTION TURBINE	DIESEL	COMBINED CYCLE	GEO- THERMAL	F CELL & WIND	NUCLEAR STEAM	HYDRO	PUMPED STORAGE	OTHER	TOTAL DERATINGS
MEGAWATTS											
ECAP 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ERCOT 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAAC 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAIN 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MARCA 20	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
NPCC 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SERC 7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SWPP 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSCC 24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL MW	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
TOTAL %	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00

(INCLUDES ONLY CONTIGUOUS U.S.)

[illegible]

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

TABLE 5
PAGE 1

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	2,516.0	.0	.0	.0	.0	.0	.0	.0	2,516.0	2,516.0	100.00
	2	6,500.0	.0	.0	.0	.0	.0	.0	.0	6,500.0	6,500.0	100.00
	13	769.0	.0	.0	.0	.0	.0	.0	.0	769.0	769.0	100.00
	14	3,375.0	.0	260.0	.0	.0	.0	.0	.0	3,635.0	3,635.0	100.00
	15	3,819.0	.0	.0	.0	.0	.0	.0	.0	5,819.0	5,819.0	98.90
	16	2,223.0	.0	30.0	.0	.0	.0	.0	.0	5,253.0	5,313.0	98.87
	18	2,269.0	.0	.0	.0	.0	.0	.0	.0	2,269.0	2,331.0	97.34
		26,471.0	.0	290.0	.0	.0	.0	.0	.0	26,761.0	26,948.0	99.30
ERCDT	23	15,832.0	.0	.0	.0	.0	.0	.0	.0	15,832.0	15,832.0	100.00
MAAC	5	3,200.0	.0	12.5	600.0	.0	.0	.0	.0	3,812.5	5,052.5	75.46
MAIN	6	1,325.0	.0	254.0	.0	.0	.0	.0	.0	1,579.0	1,650.0	0.00
	17	2,300.0	.0	26.0	.0	.0	.0	.0	.0	2,326.0	2,326.0	99.25
	19	3,625.0	.0	280.0	.0	.0	.0	.0	.0	3,905.0	5,567.0	70.14
MARCA	20	10,369.0	.0	7.0	.0	6.0	.0	.0	.0	10,382.0	10,559.6	98.32
NPCC	3	568.0	.0	435.3	.0	.0	150.0	46.0	.0	1,199.3	1,199.3	100.00
	4	2,350.0	.0	.0	.0	.0	1,265.0	.0	.0	3,615.0	3,647.0	99.12
		2,918.0	.0	435.3	.0	.0	1,415.0	46.0	.0	4,814.3	4,846.3	99.33
SERC	7	8,322.0	.0	303.0	1,590.0	.0	40.0	.0	.0	10,255.0	10,967.0	93.51
	9	5,419.0	.0	43.0	.0	.0	.0	.0	.0	5,462.0	6,128.0	89.13
	11	5,070.0	.0	200.0	.0	.0	.0	.0	.0	5,270.0	5,270.0	100.00
	12	18,811.0	.0	546.0	1,590.0	.0	40.0	.0	.0	20,987.0	22,365.0	93.83
SMPP	8	5,960.0	.0	.0	.0	.0	.0	.0	.0	5,960.0	5,960.0	100.00
	10	6,760.0	180.0	.0	.0	.0	.0	.0	.0	6,940.0	7,470.0	92.90
	21	5,085.0	.0	383.0	.0	.0	.0	.0	.0	5,468.0	5,351.0	98.50
	22	8,101.0	.0	2.0	.0	.0	.0	.0	.0	8,103.0	8,891.0	91.14
		25,906.0	180.0	385.0	.0	.0	.0	.0	.0	26,471.0	27,872.0	94.97
WSCC	24	5,770.0	.0	.0	.0	.0	.0	.0	.0	5,770.0	5,770.0	100.00
	25	3,260.0	.0	178.0	.0	.0	.0	42.0	.0	3,480.0	4,008.0	86.83
	26	3,228.0	.0	100.0	.0	.0	.0	.0	.0	3,328.0	3,401.0	97.85
	27	4,000.0	.0	95.0	.0	.0	100.0	.0	.0	4,195.0	4,825.0	86.95
	28	1,550.0	175.0	90.0	.0	3.0	80.0	41.0	.0	1,839.0	1,446.0	35.60
	30	1,700.0	.0	.0	.0	.0	.0	.0	.0	1,700.0	1,700.0	100.00
		19,508.0	175.0	463.0	.0	3.0	180.0	83.0	.0	20,412.0	29,150.0	70.02
SUBTOTAL		126,640.0	355.0	2,418.8	2,190.0	9.0	1,635.0	129.0	.0	133,376.8	148,192.4	90.00

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

TABLE 5
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AS REPORTED APRIL 1, 1989 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,516.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6,500.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	769.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	3,635.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	3,884.0	1.10
	16	.0	.0	65.0	.0	.0	.0	.0	.0	65.0	3,313.0	1.13
	18	50.0	12.0	.0	.0	.0	.0	.0	.0	62.0	2,331.0	2.66
		50.0	12.0	125.0	.0	.0	.0	.0	.0	187.0	26,948.0	0.69
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	15,832.0	0.00
MAAC	5	.0	.0	.0	1,240.0	.0	.0	.0	.0	1,240.0	5,052.5	24.54
MAIN	6	.0	.0	.0	.0	.0	.0	.0	1,650.0	1,650.0	1,650.0	100.00
	17	.0	12.0	.0	.0	.0	.0	.0	.0	12.0	1,591.0	0.75
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,326.0	0.00
		.0	12.0	.0	.0	.0	.0	.0	1,650.0	1,662.0	5,567.0	29.85
MARCA	20	125.0	48.1	4.5	.0	.0	.0	.0	.0	177.6	10,559.6	1.68
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,199.3	0.00
	4	.0	.0	.0	.0	.0	32.0	.0	.0	32.0	3,647.0	0.88
		.0	.0	.0	.0	.0	32.0	.0	.0	32.0	4,846.3	0.66
SERC	7	700.0	12.0	.0	.0	.0	.0	.0	.0	712.0	10,967.0	6.49
	9	666.0	.0	.0	.0	.0	.0	.0	.0	666.0	6,128.0	10.87
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	5,270.0	0.00
		1,366.0	12.0	.0	.0	.0	.0	.0	.0	1,378.0	22,365.0	6.16
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	5,960.0	0.00
	10	530.0	.0	.0	.0	.0	.0	.0	.0	530.0	7,470.0	7.10
	21	.0	.0	.0	.0	.0	.0	.0	83.0	83.0	5,551.0	1.50
	22	788.0	.0	.0	.0	.0	.0	.0	.0	788.0	8,891.0	8.86
		1,318.0	.0	.0	.0	.0	.0	.0	83.0	1,401.0	27,872.0	5.02
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	5,770.0	0.00
	25	.0	178.0	.0	.0	.0	.0	.0	350.0	528.0	4,008.0	13.17
	26	.0	.0	73.0	.0	.0	.0	.0	.0	73.0	3,491.0	2.15
	27	3,200.0	140.0	1,290.0	.0	.0	.0	.0	.0	4,630.0	8,825.0	52.46
	28	2,400.0	397.0	50.0	340.0	.0	.0	40.0	280.0	3,507.0	5,446.0	64.40
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,700.0	0.00
		5,600.0	715.0	1,413.0	340.0	.0	.0	40.0	630.0	8,738.0	29,150.0	29.97
SJBTOTAL		8,459.0	799.1	1,542.5	1,580.0	.0	32.0	40.0	2,363.0	14,815.6	148,192.4	10.00
TOTAL MW		135,099.0	1,154.1	3,961.3	3,770.0	9.0	1,667.0	169.0	2,363.0	148,192.4		
TOTAL %		91.16	0.78	2.67	2.54	0.01	1.12	0.11	1.59	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1980 - 1989

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	4	0	0	0	0	0	0	0	4	4	100.00
	2	5	0	0	0	0	0	0	0	5	5	100.00
	13	1	0	0	0	0	0	0	0	1	1	100.00
	14	6	0	2	0	0	0	0	0	8	8	100.00
	15	12	0	0	0	0	0	0	0	12	13	92.31
	16	11	0	1	0	0	0	0	0	12	13	92.31
	18	4	0	0	0	0	0	0	0	4	7	57.14
		43	0	3	0	0	0	0	0	46	51	90.19
ERCOT	23	27	0	0	0	0	0	0	0	27	27	100.00
MAAC	5	7	0	1	1	0	0	0	0	9	11	81.82
MAIN	6	0	0	0	0	0	0	0	0	0	3	0.00
	17	3	0	9	0	0	0	0	0	12	14	85.71
	19	6	0	1	0	0	0	0	0	7	7	100.00
		9	0	10	0	0	0	0	0	19	24	79.16
MARCA	20	23	0	1	0	1	0	0	0	25	31	80.65
NPCC	3	1	0	4	0	0	2	1	0	8	8	100.00
	4	3	0	0	0	0	8	0	0	11	12	91.67
		4	0	4	0	0	10	1	0	19	20	95.00
SERC	7	16	0	6	5	0	2	0	0	29	32	90.63
	9	8	0	1	0	0	0	0	0	9	11	81.82
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	10	0	1	0	0	0	0	0	11	11	100.00
		34	0	8	5	0	2	0	0	49	54	90.74
SWPP	8	8	0	0	0	0	0	0	0	8	8	100.00
	10	13	2	0	0	0	0	0	0	15	16	93.75
	21	11	0	4	0	0	0	0	0	15	16	93.75
	22	17	0	1	0	0	0	0	0	18	20	90.00
		49	2	5	0	0	0	0	0	56	60	93.33
WSCC	24	15	0	0	0	0	0	0	0	15	15	100.00
	25	6	0	1	0	0	0	1	0	8	13	61.54
	26	10	0	2	0	0	0	0	0	12	13	92.31
	27	6	0	4	0	0	1	0	0	11	27	40.74
	28	5	3	1	0	1	2	1	0	13	22	59.09
	30	4	0	0	0	0	0	0	0	4	4	100.00
		46	3	8	0	1	3	2	0	63	94	67.02
SUBTOTAL		242	5	40	6	2	15	3	0	313	372	84.14

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

1980 - 1989

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NET REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	4	0.00
	2	0	0	0	0	0	0	0	0	0	5	0.00
	13	0	0	0	0	0	0	0	0	0	1	0.00
	14	0	0	0	0	0	0	0	0	0	18	0.00
	15	0	0	0	0	0	0	0	0	0	13	7.69
	16	0	0	0	0	0	0	0	0	0	13	7.69
	18	1	2	0	0	0	0	0	0	3	7	42.86
		1	2	2	0	0	0	0	0	5	51	9.80
ERCOT	23	0	0	0	0	0	0	0	0	0	27	0.00
MAAC	5	0	0	0	2	0	0	0	0	2	11	18.18
MAIN	6	0	0	0	0	0	0	0	3	3	3	100.00
	17	0	0	0	0	0	0	0	0	0	14	14.29
	19	0	0	0	0	0	0	0	0	0	7	0.00
		0	2	0	0	0	0	0	3	5	24	20.83
MARCA	20	1	4	1	0	0	0	0	0	6	31	19.35
NPCC	3	0	0	0	0	0	0	0	0	0	8	0.00
	4	0	0	0	0	0	1	0	0	1	12	8.33
		0	0	0	0	0	1	0	0	1	20	5.00
SERC	7	1	2	0	0	0	0	0	0	3	32	9.38
	9	2	0	0	0	0	0	0	0	2	11	18.18
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	11	0.00
		3	2	0	0	0	0	0	0	5	54	9.25
SWPP	8	0	0	0	0	0	0	0	0	0	8	0.00
	10	1	0	0	0	0	0	0	0	1	16	6.25
	21	0	0	0	0	0	0	0	0	0	16	6.25
	22	2	0	0	0	0	0	0	0	2	20	10.00
		3	0	0	0	0	0	0	1	4	60	6.66
WSCC	24	0	0	0	0	0	0	0	0	0	15	0.00
	25	0	1	0	0	0	0	0	4	5	13	38.46
	26	0	0	1	0	0	0	0	0	1	13	7.69
	27	8	2	6	1	0	0	0	0	16	27	59.26
	28	3	0	1	0	0	0	0	0	4	22	40.91
	30	0	0	0	0	0	0	0	0	0	4	0.00
		11	5	8	1	0	0	1	5	31	94	32.97
SUBTOTAL		19	15	11	3	0	1	1	9	59	372	15.86
TOTAL NO		261	20	51	9	2	16	4	9	372		
TOTAL %		70.16	5.38	13.71	2.42	0.54	4.30	1.08	2.42	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

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1980												
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	626.0	.0	.0	.0	.0	.0	.0	.0	626.0	626.0	100.00
	2	1,300.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	1,300.0	100.00
	13	769.0	.0	.0	.0	.0	.0	.0	.0	769.0	769.0	100.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	210.0	.0	.0	.0	.0	.0	.0	.0	210.0	210.0	100.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	18	791.0	.0	.0	.0	.0	.0	.0	.0	791.0	797.0	99.25
		3,696.0	.0	.0	.0	.0	.0	.0	.0	3,696.0	3,702.0	99.83
ERCOT	23	1,670.0	.0	.0	.0	.0	.0	.0	.0	1,670.0	1,670.0	100.00
MAAC	5	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	19	580.0	.0	.0	.0	.0	.0	.0	.0	580.0	580.0	100.00
		580.0	.0	.0	.0	.0	.0	.0	.0	580.0	580.0	100.00
MAPCA	20	1,681.0	.0	7.0	.0	.0	.0	.0	.0	1,688.0	1,688.0	100.00
NPCC	3	.0	.0	8.3	.0	.0	.0	.0	.0	8.3	8.3	100.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.0	0.00
		.0	.0	8.3	.0	.0	.0	.0	.0	8.3	40.3	20.59
SERC	7	.0	.0	153.0	775.0	.0	.0	.0	.0	928.0	928.0	100.00
	9	225.0	.0	43.0	.0	.0	.0	.0	.0	268.0	268.0	100.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	1,000.0	.0	.0	.0	.0	.0	.0	.0	1,000.0	1,000.0	100.00
		1,225.0	.0	196.0	775.0	.0	.0	.0	.0	2,196.0	2,196.0	100.00
SWPP	8	740.0	.0	.0	.0	.0	.0	.0	.0	740.0	740.0	100.00
	10	540.0	.0	.0	.0	.0	.0	.0	.0	540.0	540.0	100.00
	21	1,565.0	.0	.0	.0	.0	.0	.0	.0	1,565.0	1,565.0	100.00
	22	1,043.0	.0	2.0	.0	.0	.0	.0	.0	1,045.0	1,833.0	57.01
		3,888.0	.0	2.0	.0	.0	.0	.0	.0	3,890.0	4,678.0	83.15
WSCC	24	1,100.0	.0	.0	.0	.0	.0	.0	.0	1,100.0	1,100.0	100.00
	25	530.0	.0	.0	.0	.0	.0	.0	.0	530.0	708.0	74.86
	26	592.0	.0	.0	.0	.0	.0	.0	.0	592.0	665.0	89.02
	27	.0	.0	25.0	.0	.0	.0	.0	.0	25.0	95.0	26.32
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	0.00
	30	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
		2,622.0	.0	25.0	.0	.0	.0	.0	.0	2,647.0	3,018.0	87.70
SJBTOTAL		15,762.0	.0	238.3	775.0	.0	.0	.0	.0	16,775.3	17,972.3	93.34

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

1980

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NO-REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	626.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	769.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	210.0	0.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	18	.0	6.0	.0	.0	.0	.0	.0	.0	6.0	797.0	0.75
		.0	6.0	.0	.0	.0	.0	.0	.0	6.0	3,702.0	0.16
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,670.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	580.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	580.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	580.0	0.00
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,688.0	0.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	0.00
	4	.0	.0	.0	.0	.0	32.0	.0	.0	32.0	32.0	100.00
		.0	.0	.0	.0	.0	32.0	.0	.0	32.0	40.3	79.40
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	928.0	0.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	268.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,000.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	2,196.0	0.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	740.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	540.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,565.0	0.00
	22	788.0	.0	.0	.0	.0	.0	.0	.0	788.0	1,833.0	42.99
		788.0	.0	.0	.0	.0	.0	.0	.0	788.0	4,678.0	16.84
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,100.0	0.00
	25	.0	178.0	.0	.0	.0	.0	.0	.0	178.0	708.0	25.14
	26	.0	.0	73.0	.0	.0	.0	.0	.0	73.0	665.0	10.98
	27	.0	70.0	.0	.0	.0	.0	.0	.0	70.0	95.0	73.68
	28	.0	.0	50.0	.0	.0	.0	.0	.0	50.0	50.0	100.00
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
		.0	248.0	123.0	.0	.0	.0	.0	.0	371.0	3,018.0	12.29
SUBTOTAL		788.0	254.0	123.0	.0	.0	32.0	.0	.0	1,197.0	17,972.3	6.66
TOTAL MW		16,550.0	254.0	351.3	775.0	.0	32.0	.0	.0	17,972.3		
TOTAL %		92.09	1.41	2.01	4.31	0.00	0.18	0.00	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

1980

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	1	0	0	0	0	0	0	0	1	1	100.00
	2	1	0	0	0	0	0	0	0	1	1	100.00
	13	1	0	0	0	0	0	0	0	1	1	100.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	1	0	0	0	0	0	0	0	1	1	100.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	1	0	0	0	0	0	0	0	1	1	100.00
		5	0	0	0	0	0	0	0	5	6	83.33
ERCOT	23	3	0	0	0	0	0	0	0	3	3	100.00
MAAC	5	1	0	0	0	0	0	0	0	1	1	100.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	1	0	0	0	0	0	0	0	1	1	100.00
		1	0	0	0	0	0	0	0	1	1	100.00
MARCA	20	3	0	1	0	0	0	0	0	4	4	100.00
NPCC	3	0	0	1	0	0	0	0	0	1	1	100.00
	4	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	1	0	0	0	0	0	1	2	50.00
SERC	7	0	0	3	1	0	0	0	0	4	4	100.00
	9	1	0	1	0	0	0	0	0	2	2	100.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	2	0	0	0	0	0	0	0	2	2	100.00
		3	0	4	1	0	0	0	0	8	8	100.00
SWPP	8	1	0	0	0	0	0	0	0	1	1	100.00
	10	1	0	0	0	0	0	0	0	1	1	100.00
	21	3	0	0	0	0	0	0	0	3	3	100.00
	22	2	0	1	0	0	0	0	0	3	5	100.00
		7	0	1	0	0	0	0	0	8	10	80.00
WSCC	24	3	0	0	0	0	0	0	0	3	3	100.00
	25	1	0	0	0	0	0	0	0	1	2	50.00
	26	2	0	0	0	0	0	0	0	2	3	66.67
	27	0	0	1	0	0	0	0	0	1	2	50.00
	28	0	0	0	0	0	0	0	0	0	1	0.00
	30	1	0	0	0	0	0	0	0	1	1	100.00
		7	0	1	0	0	0	0	0	8	12	66.66
SUBTOTAL		30	0	8	1	0	0	0	0	39	47	82.98

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1980												
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	1	0.00
	2	0	0	0	0	0	0	0	0	0	1	0.00
	13	0	0	0	0	0	0	0	0	0	1	0.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	0	0	0	0	0	0	0	0	0	1	0.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	0	1	0	0	0	0	0	0	1	2	50.00
		0	1	0	0	0	0	0	0	1	6	16.66
ERCOT	23	0	0	0	0	0	0	0	0	0	3	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	1	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	1	0.00
MARCA	20	0	0	0	0	0	0	0	0	0	4	0.00
NPCC	3	0	0	0	0	0	0	0	0	0	1	0.00
	4	0	0	0	0	0	1	0	0	1	1	100.00
		0	0	0	0	0	1	0	0	1	2	50.00
SERC	7	0	0	0	0	0	0	0	0	0	4	0.00
	9	0	0	0	0	0	0	0	0	0	2	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	2	0.00
		0	0	0	0	0	0	0	0	0	8	0.00
SWPP	8	0	0	0	0	0	0	0	0	0	1	0.00
	10	0	0	0	0	0	0	0	0	0	1	0.00
	21	0	0	0	0	0	0	0	0	0	3	0.00
	22	2	0	0	0	0	0	0	0	2	5	40.00
		2	0	0	0	0	0	0	0	2	10	20.00
WSCC	24	0	0	0	0	0	0	0	0	0	3	0.00
	25	0	1	0	0	0	0	0	0	1	2	50.00
	26	0	0	1	0	0	0	0	0	1	3	33.33
	27	0	1	0	0	0	0	0	0	1	2	50.00
	28	0	0	1	0	0	0	0	0	1	1	100.00
	30	0	0	0	0	0	0	0	0	0	1	0.00
		0	2	2	0	0	0	0	0	4	12	33.33
SURTOTAL		2	3	2	0	0	1	0	0	8	47	17.92
TOTAL NO		32	3	10	1	0	1	0	0	47		
TOTAL %		68.09	6.38	21.28	2.13	0.00	2.13	0.00	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1981												
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	600.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	1,479.0	.0	.0	.0	.0	.0	.0	.0	600.0	600.0	100.00
	16	500.0	.0	.0	.0	.0	.0	.0	.0	1,479.0	1,479.0	100.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	89.29
		2,579.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
										2,579.0	2,639.0	97.72
ERCOT	23	545.0	.0	.0	.0	.0	.0	.0	.0	545.0	545.0	100.00
MAAC	5	.0	.0	.0	600.0	.0	.0	.0	.0	600.0	600.0	100.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	102.0	.0	.0	.0	.0	.0	102.0	102.0	100.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	102.0	.0	.0	.0	.0	.0	102.0	102.0	100.00
MARCA	20	1,686.0	.0	.0	.0	.0	.0	.0	.0	1,686.0	1,686.0	100.00
NPCC	3	.0	.0	279.0	.0	.0	.0	.0	.0	279.0	279.0	100.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	279.0	.0	.0	.0	.0	.0	279.0	279.0	100.00
SERC	7	569.0	.0	.0	775.0	.0	40.0	.0	.0	1,384.0	1,396.0	99.14
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	503.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	280.0	.0	.0	.0	.0	.0	.0	.0	280.0	280.0	100.00
		849.0	.0	.0	775.0	.0	40.0	.0	.0	1,664.0	2,179.0	76.36
SWPP	8	740.0	.0	.0	.0	.0	.0	.0	.0	740.0	740.0	100.00
	10	540.0	90.0	.0	.0	.0	.0	.0	.0	630.0	630.0	100.00
	21	.0	.0	90.0	.0	.0	.0	.0	.0	90.0	90.0	100.00
	22	490.0	.0	.0	.0	.0	.0	.0	.0	490.0	490.0	100.00
		1,770.0	90.0	90.0	.0	.0	.0	.0	.0	1,950.0	1,950.0	100.00
WSCC	24	470.0	.0	.0	.0	.0	.0	.0	.0	470.0	470.0	100.00
	25	.0	.0	178.0	.0	.0	.0	.0	.0	178.0	178.0	100.00
	26	347.0	.0	.0	.0	.0	.0	.0	.0	347.0	347.0	100.00
	27	.0	.0	25.0	.0	.0	.0	.0	.0	25.0	25.0	26.32
	28	250.0	.0	.0	.0	3.0	.0	.0	.0	253.0	253.0	100.00
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,067.0	.0	203.0	.0	3.0	.0	.0	.0	1,273.0	1,343.0	94.78
SJBTOTAL		8,496.0	90.0	674.0	1,375.0	3.0	40.0	.0	.0	10,678.0	11,323.0	94.30

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,479.0	0.00
	16	.0	.0	60.0	.0	.0	.0	.0	.0	60.0	560.0	10.71
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	60.0	.0	.0	.0	.0	.0	60.0	2,639.0	2.27
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	545.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	102.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	102.0	0.00
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,686.0	0.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	279.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	279.0	0.00
SERC	7	.0	12.0	.0	.0	.0	.0	.0	.0	12.0	1,396.0	0.86
	9	503.0	.0	.0	.0	.0	.0	.0	.0	503.0	503.0	100.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	280.0	0.00
		503.0	12.0	.0	.0	.0	.0	.0	.0	515.0	2,179.0	23.63
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	740.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	630.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	90.0	0.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	490.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	1,950.0	0.00
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	470.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	178.0	0.00
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	347.0	0.00
	27	.0	70.0	.0	.0	.0	.0	.0	.0	70.0	95.0	73.68
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	253.0	0.00
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	70.0	.0	.0	.0	.0	.0	.0	70.0	1,343.0	5.21
SUBTOTAL		503.0	82.0	60.0	.0	.0	.0	.0	.0	645.0	11,323.0	5.70
TOTAL MW		8,999.0	172.0	734.0	1,375.0	3.0	40.0	.0	.0	11,323.0		
TOTAL %		79.48	1.52	6.48	12.14	0.03	0.35	0.00	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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1981												
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAP	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	1	0	0	0	0	0	0	0	1	1	100.00
	15	3	0	0	0	0	0	0	0	3	3	100.00
	16	1	0	0	0	0	0	0	0	1	2	50.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		5	0	0	0	0	0	0	0	5	6	83.33
ERCOT	23	1	0	0	0	0	0	0	0	1	1	100.00
MAAC	5	0	0	0	1	0	0	0	0	1	1	100.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	2	0	0	0	0	0	2	2	100.00
	19	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	2	0	0	0	0	0	2	2	100.00
MARCA	20	5	0	0	0	0	0	0	0	5	5	100.00
NPCC	3	0	0	1	0	0	0	0	0	1	1	100.00
	4	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	1	0	0	0	0	0	1	1	100.00
SERC	7	2	0	0	1	0	2	0	0	5	7	71.43
	9	0	0	0	0	0	0	0	0	0	1	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	1	0	0	0	0	0	0	0	1	1	100.00
		3	0	0	1	0	2	0	0	6	9	66.66
SWPP	8	1	0	0	0	0	0	0	0	1	1	100.00
	10	1	0	0	0	0	0	0	0	2	2	100.00
	21	0	0	1	0	0	0	0	0	1	1	100.00
	22	1	0	0	0	0	0	0	0	1	1	100.00
		3	1	1	0	0	0	0	0	5	5	100.00
WSCC	24	1	0	0	0	0	0	0	0	1	1	100.00
	25	0	0	1	0	0	0	0	0	1	1	100.00
	26	1	0	0	0	0	0	0	0	1	1	100.00
	27	0	0	1	0	0	0	0	0	1	2	50.00
	28	1	0	0	0	1	0	0	0	2	2	100.00
	30	0	0	0	0	0	0	0	0	0	0	0.00
		3	0	2	0	1	0	0	0	6	7	85.71
SUBTOTAL		20	1	6	2	1	2	0	0	32	37	86.49

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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		1981										
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	1	0.00
	15	0	0	0	0	0	0	0	0	0	3	0.00
	16	0	0	1	0	0	0	0	0	1	2	50.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	1	0	0	0	0	0	1	6	16.66
ERCOT	23	0	0	0	0	0	0	0	0	0	1	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	1	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	2	0.00
	19	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	2	0.00
MAPCA	20	0	0	0	0	0	0	0	0	0	5	0.00
NPCC	3	0	0	0	0	0	0	0	0	0	1	0.00
	4	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	1	0.00
SERC	7	0	2	0	0	0	0	0	0	2	7	28.57
	9	0	0	0	0	0	0	0	0	1	1	100.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	1	0.00
		1	2	0	0	0	0	0	0	3	9	33.33
SWPP	8	0	0	0	0	0	0	0	0	0	1	0.00
	10	0	0	0	0	0	0	0	0	0	2	0.00
	21	0	0	0	0	0	0	0	0	0	1	0.00
	22	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	5	0.00
WSCC	24	0	0	0	0	0	0	0	0	0	1	0.00
	25	0	0	0	0	0	0	0	0	0	1	0.00
	26	0	0	0	0	0	0	0	0	0	1	0.00
	27	0	1	0	0	0	0	0	0	1	2	50.00
	28	0	0	0	0	0	0	0	0	0	2	0.00
	30	0	0	0	0	0	0	0	0	0	0	0.00
		0	1	0	0	0	0	0	0	1	7	14.28
SUBTOTAL		1	3	1	0	0	0	0	0	5	37	13.51
TOTAL NO		21	4	7	2	1	2	0	0	37		
TOTAL %		56.76	10.81	18.92	5.41	2.70	5.41	0.00	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	600.0	.0	.0	.0	.0	.0	.0	.0	600.0	600.0	100.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	16	1,120.0	.0	30.0	.0	.0	.0	.0	.0	1,150.0	1,150.0	100.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	0.00
		1,720.0	.0	30.0	.0	.0	.0	.0	.0	1,750.0	1,756.0	99.65
ERCOT	23	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	575.0	.0	.0	.0	.0	.0	.0	.0	575.0	587.0	97.96
	19	340.0	.0	.0	.0	.0	.0	.0	.0	340.0	340.0	100.00
		915.0	.0	.0	.0	.0	.0	.0	.0	915.0	927.0	98.70
MARCA	20	566.0	.0	.0	.0	.0	.0	.0	.0	566.0	595.5	95.05
NPCC	3	.0	.0	148.0	.0	.0	75.0	.0	.0	223.0	223.0	100.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	148.0	.0	.0	75.0	.0	.0	223.0	223.0	100.00
SERC	7	670.0	.0	.0	20.0	.0	.0	.0	.0	690.0	690.0	100.00
	9	808.0	.0	.0	.0	.0	.0	.0	.0	808.0	808.0	100.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,478.0	.0	.0	20.0	.0	.0	.0	.0	1,498.0	1,498.0	100.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	10	540.0	90.0	.0	.0	.0	.0	.0	.0	630.0	1,160.0	54.31
	21	630.0	.0	.0	.0	.0	.0	.0	.0	630.0	630.0	100.00
	22	1,412.0	.0	.0	.0	.0	.0	.0	.0	1,412.0	1,412.0	100.00
		2,582.0	90.0	.0	.0	.0	.0	.0	.0	2,672.0	3,202.0	83.44
WSCC	24	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	100.00
	25	.0	.0	.0	.0	.0	.0	42.0	.0	42.0	42.0	100.00
	26	472.0	.0	.0	.0	.0	.0	.0	.0	472.0	472.0	100.00
	27	.0	.0	25.0	.0	.0	.0	.0	.0	25.0	25.0	100.00
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	272.0	0.00
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		972.0	.0	25.0	.0	.0	.0	42.0	.0	1,039.0	1,311.0	79.25
SJBTOTAL		8,633.0	90.0	203.0	20.0	.0	75.0	42.0	.0	9,063.0	9,912.5	91.43

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1990 THRU 1989

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(INCLUDES ONLY CONTIGUOUS U.S.)

1982

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	600.00	0.00
	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	18	.00	6.00	.00	.00	.00	.00	.00	.00	.00	1,150.00	0.00
		.0	6.0	.0	.0	.0	.0	.0	.0	6.0	6.0	100.00
		.0	6.0	.0	.0	.0	.0	.0	.0	6.0	1,756.0	9.34
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	12.00	.00	.00	.00	.00	.00	.00	.00	12.00	587.00
	19	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	2.04
		.0	12.0	.0	.0	.0	.0	.0	.0	12.0	340.0	0.00
		.0	12.0	.0	.0	.0	.0	.0	.0	12.0	927.0	1.29
MARCA	20	.0	25.0	4.5	.0	.0	.0	.0	.0	29.5	595.5	4.95
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	223.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	223.0	0.00
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	690.0	0.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	808.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	1,498.0	0.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	10	530.00	.00	.00	.00	.00	.00	.00	.00	530.00	1,160.00	45.69
	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	630.00	0.00
	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	1,412.00	0.00
		530.0	.0	.0	.0	.0	.0	.0	.0	530.0	3,202.0	16.55
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0	0.00
	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	42.00	0.00
	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	472.00	0.00
	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	25.00	0.00
	28	.00	272.00	.00	.00	.00	.00	.00	.00	.00	272.00	100.00
	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
		.0	272.0	.0	.0	.0	.0	.0	.0	272.0	1,311.0	20.74
SUBTOTAL		530.0	315.0	4.5	.0	.0	.0	.0	.0	849.5	9,912.5	8.57
TOTAL MW		9,163.0	405.0	207.5	20.0	.0	75.0	42.0	.0	9,912.5		
TOTAL %		92.44	4.09	2.09	0.20	0.00	0.76	0.42	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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1982

COUNCIL REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY											
ECAR	1	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0.00
	14	1	0	0	0	0	0	0	1	1	100.00
	15	0	0	0	0	0	0	0	0	0	0.00
	16	2	0	1	0	0	0	0	3	3	100.00
	18	0	0	0	0	0	0	0	0	1	0.00
		3	0	1	0	0	0	0	4	5	80.00
ERCOT	23	1	0	0	0	0	0	0	1	1	100.00
MAAC	5	0	0	0	0	0	0	0	0	0	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0.00
	17	2	0	0	0	0	0	0	2	3	33.33
	19	0	0	0	0	0	0	0	0	2	100.00
		3	0	0	0	0	0	0	3	5	60.00
MARCA	20	2	0	0	0	0	0	0	2	4	50.00
NPCC	3	0	0	2	0	0	1	0	3	3	100.00
	4	0	0	0	0	0	0	0	0	0	0.00
		0	0	2	0	0	1	0	3	3	100.00
SERC	7	1	0	0	2	0	0	0	3	3	100.00
	9	1	0	0	0	0	0	0	1	1	100.00
	11	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	0.00
		2	0	0	2	0	0	0	4	4	100.00
SWPP	8	0	0	0	0	0	0	0	0	0	0.00
	10	1	0	0	0	0	0	0	1	3	66.67
	21	1	0	0	0	0	0	0	1	1	100.00
	22	3	0	0	0	0	0	0	3	3	100.00
		5	1	0	0	0	0	0	6	7	85.71
WSCC	24	1	0	0	0	0	0	0	1	1	100.00
	25	0	0	0	0	0	0	0	0	1	100.00
	26	1	0	0	0	0	0	0	1	1	100.00
	27	0	0	1	0	0	0	0	1	1	100.00
	28	0	0	0	0	0	0	0	0	1	0.00
	30	0	0	0	0	0	0	0	0	0	0.00
		2	0	1	0	0	1	0	4	5	80.00
SUBTOTAL	18	1	4	2	0	1	1	0	27	34	79.41

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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1982

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	1	0.00
	15	0	0	0	0	0	0	0	0	0	0	0.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	0	1	0	0	0	0	0	0	1	3	0.00
		0	1	0	0	0	0	0	0	1	5	100.00
ERCOT	23	0	0	0	0	0	0	0	0	0	1	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	0	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	3	66.67
	19	0	0	0	0	0	0	0	0	0	2	0.00
		0	2	0	0	0	0	0	0	2	5	40.00
MARCA	20	0	1	1	0	0	0	0	0	2	4	50.00
NPCC	3	0	0	0	0	0	0	0	0	0	3	0.00
	4	0	0	0	0	0	0	0	0	0	3	0.00
		0	0	0	0	0	0	0	0	0	3	0.00
SERC	7	0	0	0	0	0	0	0	0	0	3	0.00
	9	0	0	0	0	0	0	0	0	0	1	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	4	0.00
SWPP	8	0	0	0	0	0	0	0	0	0	0	0.00
	10	1	0	0	0	0	0	0	0	1	3	33.33
	21	0	0	0	0	0	0	0	0	0	1	0.00
	22	0	0	0	0	0	0	0	0	0	3	0.00
		1	0	0	0	0	0	0	0	1	7	14.28
WSEC	24	0	0	0	0	0	0	0	0	0	1	0.00
	25	0	0	0	0	0	0	0	0	0	1	0.00
	26	0	0	0	0	0	0	0	0	0	1	0.00
	27	0	0	0	0	0	0	0	0	0	1	0.00
	28	0	0	0	0	0	0	0	0	0	1	0.00
	30	0	1	0	0	0	0	0	0	1	0	100.00
		0	1	0	0	0	0	0	0	1	5	20.00
SUBTOTAL		1	5	1	0	0	0	0	0	7	34	20.59
TOTAL NO		19	6	5	2	0	1	1	0	34		
TOTAL %		55.88	17.65	14.71	5.88	0.00	2.94	2.94	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 3, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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1983

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	1,300.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	1,300.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	100.00
	16	344.0	.0	.0	.0	.0	.0	.0	.0	344.0	344.0	100.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	0.00
		2,144.0	.0	.0	.0	.0	.0	.0	.0	2,144.0	2,194.0	97.72
ERCOT	23	540.0	.0	.0	.0	.0	.0	.0	.0	540.0	540.0	100.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	19	580.0	.0	.0	.0	.0	.0	.0	.0	580.0	580.0	100.00
		580.0	.0	.0	.0	.0	.0	.0	.0	580.0	580.0	100.00
MARCA	20	1,066.0	.0	.0	.0	.0	.0	.0	.0	1,066.0	1,073.7	99.28
NPCC	3	.0	.0	.0	.0	.0	75.0	46.0	.0	121.0	121.0	100.00
	4	.0	.0	.0	.0	.0	175.0	.0	.0	175.0	175.0	100.00
		.0	.0	.0	.0	.0	250.0	46.0	.0	296.0	296.0	100.00
SEPC	7	600.0	.0	.0	20.0	.0	.0	.0	.0	620.0	620.0	100.00
	9	654.0	.0	.0	.0	.0	.0	.0	.0	654.0	654.0	100.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	1,170.0	.0	.0	.0	.0	.0	.0	.0	1,170.0	1,170.0	100.00
		2,424.0	.0	.0	20.0	.0	.0	.0	.0	2,444.0	2,444.0	100.00
SWPP	8	740.0	.0	.0	.0	.0	.0	.0	.0	740.0	740.0	100.00
	10	540.0	.0	.0	.0	.0	.0	.0	.0	540.0	540.0	100.00
	21	960.0	.0	.0	.0	.0	.0	.0	.0	960.0	960.0	100.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		2,240.0	.0	.0	.0	.0	.0	.0	.0	2,240.0	2,240.0	100.00
WSCC	24	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	26	.0	.0	50.0	.0	.0	.0	.0	.0	50.0	50.0	100.00
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	250.0	0.00
	28	.0	10.0	.0	.0	.0	40.0	41.0	.0	91.0	216.0	42.13
	30	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
		800.0	10.0	50.0	.0	.0	40.0	41.0	.0	941.0	1,316.0	71.50
SUBTOTAL		9,794.0	10.0	50.0	20.0	.0	290.0	87.0	.0	10,251.0	10,683.7	95.95

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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1983

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0	0.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	344.0	0.00
	18	50.0	.0	.0	.0	.0	.0	.0	.0	50.0	50.0	100.00
		50.0	.0	.0	.0	.0	.0	.0	.0	50.0	2,194.0	2.27
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	540.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	580.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	580.0	0.00
MARCA	20	.0	7.7	.0	.0	.0	.0	.0	.0	7.7	1,073.7	0.72
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	121.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	175.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	296.0	0.00
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	620.0	0.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	654.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,170.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	2,444.0	0.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	740.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	540.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	960.0	0.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	2,240.0	0.00
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	0.00
	27	250.0	.0	.0	.0	.0	.0	.0	.0	250.0	250.0	100.00
	28	.0	125.0	.0	.0	.0	.0	.0	.0	125.0	216.0	57.87
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
		250.0	125.0	.0	.0	.0	.0	.0	.0	375.0	1,316.0	28.49
SUBTOTAL		300.0	132.7	.0	.0	.0	.0	.0	.0	432.7	10,683.7	4.05
TOTAL MW		10,094.0	142.7	50.0	20.0	.0	290.0	87.0	.0	10,683.7		
TOTAL %		94.48	1.34	0.47	0.19	0.00	2.71	0.81	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1983

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	100.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	1	0	0	0	0	0	0	0	1	1	100.00
	16	0	0	0	0	0	0	0	0	0	1	100.00
	18	0	0	0	0	0	0	0	0	0	1	0.00
		3	0	0	0	0	0	0	0	3	4	75.00
ERCOT	23	1	0	0	0	0	0	0	0	1	1	100.00
MAAC	5	0	0	0	0	0	0	0	0	0	0	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	1	0	0	0	0	0	0	0	1	1	100.00
		1	0	0	0	0	0	0	0	1	1	100.00
MARCA	20	2	0	0	0	0	0	0	0	2	3	66.67
NPCC	3	0	0	0	0	0	1	1	0	2	2	100.00
	4	0	0	0	0	0	1	0	0	1	1	100.00
		0	0	0	0	0	2	1	0	3	3	100.00
SERC	7	1	0	0	1	0	0	0	0	2	2	100.00
	9	1	0	0	0	0	0	0	0	1	1	100.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	2	0	0	0	0	0	0	0	2	2	100.00
		4	0	0	1	0	0	0	0	5	5	100.00
SWPP	8	1	0	0	0	0	0	0	0	1	1	100.00
	10	1	0	0	0	0	0	0	0	1	1	100.00
	21	2	0	0	0	0	0	0	0	2	2	100.00
	22	0	0	0	0	0	0	0	0	0	0	0.00
		4	0	0	0	0	0	0	0	4	4	100.00
WSCC	24	1	0	0	0	0	0	0	0	1	1	100.00
	25	0	0	0	0	0	0	0	0	0	0	0.00
	26	0	0	1	0	0	0	0	0	1	1	100.00
	27	0	0	0	0	0	0	0	0	0	0	0.00
	28	0	1	0	0	0	1	1	0	3	4	75.00
	30	1	0	0	0	0	0	0	0	1	1	100.00
		2	1	1	0	0	1	1	0	6	8	75.00
SJBTOTAL		17	1	1	1	0	3	2	0	25	29	86.21

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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1983

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	1	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	0	0	0	0	0	0	0	0	0	1	0.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	1	0	0	0	0	0	0	0	1	1	100.00
		1	0	0	0	0	0	0	0	1	4	25.00
ERCOT	23	0	0	0	0	0	0	0	0	0	1	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	0	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	1	0.00
MARCA	20	0	1	0	0	0	0	0	0	1	3	33.33
NPCC	3	0	0	0	0	0	0	0	0	0	2	0.00
	4	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	3	0.00
SERC	7	0	0	0	0	0	0	0	0	0	2	0.00
	9	0	0	0	0	0	0	0	0	0	1	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	2	0.00
		0	0	0	0	0	0	0	0	0	5	0.00
SWPP	8	0	0	0	0	0	0	0	0	0	1	0.00
	10	0	0	0	0	0	0	0	0	0	1	0.00
	21	0	0	0	0	0	0	0	0	0	2	0.00
	22	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	4	0.00
WSCC	24	0	0	0	0	0	0	0	0	0	1	0.00
	25	0	0	0	0	0	0	0	0	0	0	0.00
	26	0	0	0	0	0	0	0	0	0	0	0.00
	27	1	0	0	0	0	0	0	0	1	1	100.00
	28	0	0	0	0	0	0	0	0	0	1	25.00
	30	0	0	0	0	0	0	0	0	0	1	0.00
		1	1	0	0	0	0	0	0	2	8	25.00
SUBTOTAL		2	2	0	0	0	0	0	0	4	29	13.79
TOTAL NO		19	3	1	1	0	3	2	0	29		
TOTAL %		65.52	10.34	3.45	3.45	0.00	10.34	6.90	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	1,300.0	0.00
	2	1,300.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	195.0	.0	.0	.0	.0	.0	195.0	195.0	100.00
	15	890.0	.0	.0	.0	.0	.0	.0	.0	890.0	890.0	100.00
	16	765.0	.0	.0	.0	.0	.0	.0	.0	765.0	765.0	100.00
	18	664.0	.0	.0	.0	.0	.0	.0	.0	664.0	664.0	100.00
		3,619.0	.0	195.0	.0	.0	.0	.0	.0	3,814.0	3,814.0	100.00
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	620.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	25.0	.0	.0	.0	.0	.0	25.0	25.0	100.00
	19	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
		400.0	.0	25.0	.0	.0	.0	.0	.0	425.0	425.0	100.00
MARCA	20	650.0	.0	.0	.0	.0	.0	.0	.0	650.0	650.0	100.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	850.0	.0	.0	.0	.0	215.0	.0	.0	1,065.0	1,065.0	100.00
		850.0	.0	.0	.0	.0	215.0	.0	.0	1,065.0	1,065.0	100.00
SERC	7	670.0	.0	.0	.0	.0	.0	.0	.0	670.0	670.0	100.00
	9	808.0	.0	.0	.0	.0	.0	.0	.0	808.0	808.0	100.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,478.0	.0	.0	.0	.0	.0	.0	.0	1,478.0	1,478.0	100.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	22	515.0	.0	.0	.0	.0	.0	.0	.0	515.0	515.0	100.00
		515.0	.0	.0	.0	.0	.0	.0	.0	515.0	515.0	100.00
WSCC	24	350.0	.0	.0	.0	.0	.0	.0	.0	350.0	350.0	100.00
	25	700.0	.0	.0	.0	.0	.0	.0	.0	700.0	700.0	100.00
	26	210.0	.0	.0	.0	.0	.0	.0	.0	210.0	210.0	100.00
	27	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	20.0	100.00
	28	250.0	25.0	.0	.0	.0	.0	.0	.0	275.0	315.0	87.30
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,510.0	25.0	20.0	.0	.0	.0	.0	.0	1,555.0	1,595.0	97.49
SUBTOTAL		9,022.0	25.0	240.0	.0	.0	215.0	.0	.0	9,502.0	10,162.0	93.51

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	195.0	0.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	890.0	0.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	765.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	664.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	3,814.0	0.00
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAAC	5	.0	.0	.0	620.0	.0	.0	.0	.0	620.0	620.0	100.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	425.0	0.00
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	650.0	0.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,065.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	1,065.0	0.00
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	670.0	0.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	808.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	1,478.0	0.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	515.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	515.0	0.00
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	350.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	700.0	0.00
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	210.0	0.00
	27	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	0.00
	28	.0	.0	.0	.0	.0	.0	40.0	.0	40.0	315.0	12.70
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	40.0	.0	40.0	1,595.0	2.50
SJBTOTAL		.0	.0	.0	620.0	.0	.0	40.0	.0	660.0	10,162.0	6.49
TOTAL MW		9,022.0	25.0	240.0	620.0	.0	215.0	40.0	.0	10,162.0		
TOTAL %		88.78	0.25	2.36	6.10	0.00	2.12	0.39	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	1	0	0	0	0	0	0	0	1	1	100.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	1	0	0	0	0	0	1	1	100.00
	15	0	0	0	0	0	0	0	0	0	0	0.00
	16	2	0	0	0	0	0	0	0	2	2	100.00
	18	1	0	0	0	0	0	0	0	1	1	100.00
		6	0	1	0	0	0	0	0	7	7	100.00
ERCOT	23	0	0	0	0	0	0	0	0	0	0	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	1	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	1	0	0	0	0	0	1	1	100.00
	19	1	0	0	0	0	0	0	0	1	1	100.00
		1	0	1	0	0	0	0	0	2	2	100.00
MARCA	20	1	0	0	0	0	0	0	0	1	1	100.00
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	1	0	0	0	0	2	0	0	3	3	100.00
		1	0	0	0	0	2	0	0	3	3	100.00
SERC	7	1	0	0	0	0	0	0	0	1	1	100.00
	9	1	0	0	0	0	0	0	0	1	1	100.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	0	0.00
		2	0	0	0	0	0	0	0	2	2	100.00
SWPP	8	0	0	0	0	0	0	0	0	0	0	0.00
	10	0	0	0	0	0	0	0	0	0	0	0.00
	21	0	0	0	0	0	0	0	0	0	0	0.00
	22	1	0	0	0	0	0	0	0	1	1	100.00
		1	0	0	0	0	0	0	0	1	1	100.00
WSCC	24	2	0	0	0	0	0	0	0	2	2	100.00
	25	1	0	0	0	0	0	0	0	1	1	100.00
	26	1	0	0	0	0	0	0	0	1	1	100.00
	27	0	1	1	0	0	0	0	0	2	3	66.67
	28	1	0	0	0	0	0	0	0	1	0	0.00
	30	0	0	0	0	0	0	0	0	0	0	0.00
		5	1	1	0	0	0	0	0	7	8	87.50
SUBTOTAL		17	1	3	0	0	2	0	0	23	25	92.00

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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1984											
COUNCIL REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY											
ECAR	1	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	1	0.00
	13	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	1	0.00
	15	0	0	0	0	0	0	0	0	2	0.00
	16	0	0	0	0	0	0	0	0	2	0.00
	18	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	7	0.00
ERCOT	23	0	0	0	0	0	0	0	0	0	0.00
MAAC	5	0	0	0	1	0	0	0	1	1	100.00
MAIN	6	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	1	0.00
	19	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	2	0.00
MARCA	20	0	0	0	0	0	0	0	0	1	0.00
NPCC	3	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	0	0	0	0	3	0.00
		0	0	0	0	0	0	0	0	3	0.00
SERC	7	0	0	0	0	0	0	0	0	1	0.00
	9	0	0	0	0	0	0	0	0	1	0.00
	11	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	2	0.00
SWPP	8	0	0	0	0	0	0	0	0	0	0.00
	10	0	0	0	0	0	0	0	0	0	0.00
	21	0	0	0	0	0	0	0	0	0	0.00
	22	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	1	0.00
WSCC	24	0	0	0	0	0	0	0	0	2	0.00
	25	0	0	0	0	0	0	0	0	1	0.00
	26	0	0	0	0	0	0	0	0	1	0.00
	27	0	0	0	0	0	0	0	0	1	0.00
	28	0	0	0	0	0	0	0	1	3	33.33
	30	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	1	0	1	8	12.50
SUBTOTAL	0	0	0	1	0	0	1	0	2	25	8.00
TOTAL NO	17	1	3	1	0	2	1	0	25		
TOTAL \$	68.00	4.00	12.00	4.00	0.00	8.00	4.00	0.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, & OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	1,200.0	.0	.0	.0	.0	.0	.0	.0	1,200.0	1,200.0	100.00
	15	600.0	.0	.0	.0	.0	.0	.0	.0	600.0	600.0	100.00
	16	344.0	.0	.0	.0	.0	.0	.0	.0	344.0	344.0	100.00
	18	664.0	.0	.0	.0	.0	.0	.0	.0	664.0	664.0	100.00
		2,808.0	.0	.0	.0	.0	.0	.0	.0	2,808.0	2,808.0	100.00
ERCOT	23	2,200.0	.0	.0	.0	.0	.0	.0	.0	2,200.0	2,200.0	100.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	5.0	.0	.0	.0	.0	.0	5.0	5.0	100.00
	19	.0	.0	26.0	.0	.0	.0	.0	.0	26.0	26.0	100.00
		.0	.0	31.0	.0	.0	.0	.0	.0	31.0	31.0	100.00
MARCA	20	800.0	.0	.0	.0	6.0	.0	.0	.0	806.0	931.0	86.57
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	175.0	.0	.0	175.0	175.0	100.00
		.0	.0	.0	.0	.0	175.0	.0	.0	175.0	175.0	100.00
SEPC	7	1,617.0	.0	150.0	.0	.0	.0	.0	.0	1,767.0	1,767.0	100.00
	9	654.0	.0	.0	.0	.0	.0	.0	.0	654.0	654.0	100.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	720.0	.0	.0	.0	.0	.0	.0	.0	720.0	720.0	100.00
		2,991.0	.0	150.0	.0	.0	.0	.0	.0	3,141.0	3,141.0	100.00
SWPP	8	740.0	.0	.0	.0	.0	.0	.0	.0	740.0	740.0	100.00
	10	1,080.0	.0	.0	.0	.0	.0	.0	.0	1,080.0	1,080.0	100.00
	21	680.0	.0	233.0	.0	.0	.0	.0	.0	913.0	913.0	100.00
	22	1,148.0	.0	.0	.0	.0	.0	.0	.0	1,148.0	1,148.0	100.00
		3,648.0	.0	233.0	.0	.0	.0	.0	.0	3,881.0	3,881.0	100.00
WSCC	24	470.0	.0	.0	.0	.0	.0	.0	.0	470.0	470.0	100.00
	25	700.0	.0	.0	.0	.0	.0	.0	.0	700.0	775.0	90.32
	26	697.0	.0	.0	.0	.0	.0	.0	.0	697.0	697.0	100.00
	27	.0	.0	.0	.0	.0	100.0	.0	.0	100.0	740.0	13.51
	28	.0	140.0	90.0	.0	.0	40.0	.0	.0	270.0	890.0	30.34
	30	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
		2,267.0	140.0	90.0	.0	.0	140.0	.0	.0	2,637.0	3,972.0	66.38
SUBTOTAL		14,714.0	140.0	504.0	.0	6.0	315.0	.0	.0	15,679.0	17,139.0	91.48

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989
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		1985										
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,200.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	344.0	0.00
											664.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0		
		.0	.0	.0	.0	.0	.0	.0	.0	.0	2,808.0	0.00
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,200.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	26.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	31.0	0.00
MARCA	20	125.0	.0	.0	.0	.0	.0	.0	.0	125.0	931.0	13.43
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	175.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	175.0	0.00
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,767.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	654.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	720.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	3,141.0	0.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	740.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,080.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	913.0	0.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,148.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	3,881.0	0.00
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	470.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	75.0	9.68
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	775.0	0.00
	27	250.0	.0	390.0	.0	.0	.0	.0	.0	.0	697.0	0.00
	28	.0	.0	.0	340.0	.0	.0	.0	.0	.0	740.0	86.49
	29	.0	.0	.0	.0	.0	.0	.0	280.0	620.0	890.0	69.66
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
		250.0	.0	390.0	340.0	.0	.0	.0	355.0	1,335.0	3,972.0	33.61
SUBTOTAL	375.0	.0	390.0	340.0	.0	.0	.0	.0	355.0	1,460.0	17,139.0	8.52
TOTAL MW	15,089.0	140.0	864.0	340.0	6.0	315.0	.0	355.0	17,139.0			
TOTAL %	88.04	0.82	5.22	1.93	0.04	1.84	0.00	2.07	100.00			

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, & OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	2	0	0	0	0	0	0	0	2	2	100.00
	15	1	0	0	0	0	0	0	0	1	1	100.00
	16	1	0	0	0	0	0	0	0	1	1	100.00
	18	1	0	0	0	0	0	0	0	1	1	100.00
		5	0	0	0	0	0	0	0	5	5	100.00
ERCOT	23	3	0	0	0	0	0	0	0	3	3	100.00
MAAC	5	0	0	0	0	0	0	0	0	0	0	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	1	0	0	0	0	0	1	1	100.00
	19	0	0	1	0	0	0	0	0	1	1	100.00
		0	0	2	0	0	0	0	0	2	2	100.00
MARCA	20	1	0	0	0	1	0	0	0	2	3	66.67
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	0	1	0	0	1	1	100.00
		0	0	0	0	0	1	0	0	1	1	100.00
SERC	7	3	0	3	0	0	0	0	0	6	6	100.00
	9	1	0	0	0	0	0	0	0	1	1	100.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	1	0	0	0	0	0	0	0	1	1	100.00
		5	0	3	0	0	0	0	0	8	8	100.00
SWPP	8	1	0	0	0	0	0	0	0	1	1	100.00
	10	2	0	0	0	0	0	0	0	2	2	100.00
	21	1	0	2	0	0	0	0	0	3	3	100.00
	22	2	0	0	0	0	0	0	0	2	2	100.00
		6	0	2	0	0	0	0	0	8	8	100.00
WSCC	24	1	0	0	0	0	0	0	0	1	1	100.00
	25	1	0	0	0	0	0	0	0	1	2	50.00
	26	2	0	0	0	0	0	0	0	2	2	100.00
	27	0	0	0	0	0	1	0	0	1	4	25.00
	28	0	1	0	0	0	0	0	0	1	5	60.00
	30	1	0	0	0	0	0	0	0	1	1	100.00
		5	1	1	0	0	2	0	0	9	15	60.00
SUBTOTAL		25	1	8	0	1	3	0	0	38	45	84.44

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	2	0.00
	15	0	0	0	0	0	0	0	0	0	1	0.00
	16	0	0	0	0	0	0	0	0	0	1	0.00
	18	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	5	0.00
ERCOT	23	0	0	0	0	0	0	0	0	0	3	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	0	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	1	0.00
	19	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	2	0.00
MARCA	20	1	0	0	0	0	0	0	0	1	3	33.33
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	1	0.00
SERC	7	0	0	0	0	0	0	0	0	0	6	0.00
	9	0	0	0	0	0	0	0	0	0	1	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	8	0.00
SWPP	8	0	0	0	0	0	0	0	0	0	1	0.00
	10	0	0	0	0	0	0	0	0	0	1	0.00
	21	0	0	0	0	0	0	0	0	0	1	0.00
	22	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	8	0.00
WSCC	24	0	0	0	0	0	0	0	0	0	1	0.00
	25	0	0	0	0	0	0	0	0	0	2	50.00
	26	0	0	0	0	0	0	0	0	0	2	0.00
	27	1	0	2	0	0	0	0	0	3	4	75.00
	28	0	0	0	1	0	0	0	0	1	5	40.00
	30	0	0	0	0	0	0	0	0	0	1	0.00
		1	0	2	1	0	0	0	2	6	15	40.00
SUBTOTAL		2	0	2	1	0	0	0	2	7	45	15.56
TOTAL NO		27	1	10	1	1	3	0	2	45		
TOTAL %		60.00	2.22	22.22	2.22	2.22	6.67	0.00	4.44	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	630.0	.0	.0	.0	.0	.0	.0	.0	630.0	630.0	100.00
	2	1,300.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	1,300.0	100.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	995.0	.0	.0	.0	.0	.0	.0	.0	995.0	995.0	100.00
	16	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	100.00
	18	150.0	.0	.0	.0	.0	.0	.0	.0	150.0	150.0	100.00
		3,575.0	.0	.0	.0	.0	.0	.0	.0	3,575.0	3,575.0	100.00
ERCOT	23	1,450.0	.0	.0	.0	.0	.0	.0	.0	1,450.0	1,450.0	100.00
MAAC	5	.0	.0	12.5	.0	.0	.0	.0	.0	12.5	12.5	100.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	400.0	.0	97.0	.0	.0	.0	.0	.0	497.0	497.0	100.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		400.0	.0	97.0	.0	.0	.0	.0	.0	497.0	497.0	100.00
MARCA	20	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	407.7	98.11
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	175.0	.0	.0	175.0	175.0	100.00
		.0	.0	.0	.0	.0	175.0	.0	.0	175.0	175.0	100.00
SERC	7	1,018.0	.0	.0	.0	.0	.0	.0	.0	1,018.0	1,018.0	100.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	450.0	.0	200.0	.0	.0	.0	.0	.0	650.0	650.0	100.00
		1,468.0	.0	200.0	.0	.0	.0	.0	.0	1,668.0	1,668.0	100.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	10	1,580.0	.0	.0	.0	.0	.0	.0	.0	1,580.0	1,580.0	100.00
	21	300.0	.0	60.0	.0	.0	.0	.0	.0	360.0	360.0	100.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,880.0	.0	60.0	.0	.0	.0	.0	.0	1,940.0	1,940.0	100.00
WSCC	24	470.0	.0	.0	.0	.0	.0	.0	.0	470.0	470.0	100.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	0.00
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	27	750.0	.0	.0	.0	.0	.0	.0	.0	750.0	1,890.0	39.68
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	800.0	0.00
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,220.0	.0	.0	.0	.0	.0	.0	.0	1,220.0	3,185.0	38.30
SUBTOTAL		10,393.0	.0	369.5	.0	.0	175.0	.0	.0	10,937.5	12,910.2	84.72

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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		1986										
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	630.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	995.0	0.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0	0.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	150.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	3,575.0	0.00
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,450.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	497.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	497.0	0.00
MARCA	20	.0	7.7	.0	.0	.0	.0	.0	.0	7.7	407.7	1.89
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	175.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	175.0	0.00
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,018.0	0.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	650.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	1,668.0	0.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,580.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	360.0	0.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	1,940.0	0.00
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	470.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	25.0	25.0	25.0	100.00
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	27	750.0	.0	390.0	.0	.0	.0	.0	.0	1,140.0	1,890.0	60.32
	28	800.0	.0	.0	.0	.0	.0	.0	.0	800.0	800.0	100.00
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,550.0	.0	390.0	.0	.0	.0	.0	25.0	1,965.0	3,185.0	61.69
SUBTOTAL		1,550.0	7.7	390.0	.0	.0	.0	.0	25.0	1,972.7	12,910.2	15.28
TOTAL MW		11,943.0	7.7	759.5	.0	.0	175.0	.0	25.0	12,910.2		
TOTAL %		92.51	0.06	5.88	0.00	0.00	1.36	0.00	0.19	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY											
ECAR	1	0	0	0	0	0	0	0	1	1	100.00
	2	0	0	0	0	0	0	0	1	1	100.00
	13	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	0.00
	15	2	0	0	0	0	0	0	2	2	100.00
	16	1	0	0	0	0	0	0	1	1	100.00
	18	1	0	0	0	0	0	0	1	1	100.00
	6	0	0	0	0	0	0	0	6	6	100.00
ERCOT	23	0	0	0	0	0	0	0	2	2	100.00
MAAC	5	0	1	0	0	0	0	0	1	1	100.00
MAIN	6	0	0	0	0	0	0	0	0	0	0.00
	17	1	0	0	0	0	0	0	1	1	100.00
	19	0	0	0	0	0	0	0	0	0	0.00
	1	0	4	0	0	0	0	0	5	5	100.00
MARCA	20	1	0	0	0	0	0	0	1	2	50.00
NPCC	3	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	1	0	0	1	1	100.00
	0	0	0	0	0	1	0	0	1	1	100.00
SERC	7	0	0	0	0	0	0	0	2	2	100.00
	9	0	0	0	0	0	0	0	0	0	0.00
	11	0	0	0	0	0	0	0	0	0	0.00
	12	1	1	0	0	0	0	0	2	2	100.00
	3	0	1	0	0	0	0	0	4	4	100.00
SWPP	8	0	0	0	0	0	0	0	0	0	0.00
	10	3	0	0	0	0	0	0	3	3	100.00
	21	1	0	0	0	0	0	0	1	1	100.00
	22	0	0	0	0	0	0	0	0	0	0.00
	4	0	1	0	0	0	0	0	5	5	100.00
WSCC	24	1	0	0	0	0	0	0	1	1	100.00
	25	0	0	0	0	0	0	0	0	0	0.00
	26	0	0	0	0	0	0	0	0	0	0.00
	27	1	0	0	0	0	0	0	1	1	20.00
	28	0	0	0	0	0	0	0	0	0	0.00
	30	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	2	8	25.00
SUBTOTAL	19	0	7	0	0	1	0	0	27	34	79.41

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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		1986										
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	1	0.00
	2	0	0	0	0	0	0	0	0	0	1	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	0	0	0	0	0	0	0	0	0	0	0.00
	16	0	0	0	0	0	0	0	0	0	2	0.00
	18	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	6	0.00
ERCOT	23	0	0	0	0	0	0	0	0	0	2	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	1	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	5	0.00
MAPCA	20	0	1	0	0	0	0	0	0	1	2	50.00
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	1	0.00
SERC	7	0	0	0	0	0	0	0	0	0	2	0.00
	9	0	0	0	0	0	0	0	0	0	0	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	2	0.00
		0	0	0	0	0	0	0	0	0	4	0.00
SWPP	8	0	0	0	0	0	0	0	0	0	0	0.00
	10	0	0	0	0	0	0	0	0	0	0	0.00
	21	0	0	0	0	0	0	0	0	0	3	0.00
	22	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	5	0.00
WSCC	24	0	0	0	0	0	0	0	0	0	1	0.00
	25	0	0	0	0	0	0	0	0	0	1	100.00
	26	0	0	0	0	0	0	0	0	0	0	0.00
	27	0	0	0	0	0	0	0	0	0	0	0.00
	28	0	0	0	0	0	0	0	0	0	5	80.00
	30	0	0	0	0	0	0	0	0	0	1	100.00
		3	0	2	0	0	0	0	1	6	8	75.00
SUBTOTAL		3	1	2	0	0	0	0	1	7	34	
TOTAL NO		22	1	9	0	0	1	0	1	34		20.59
TOTAL %		64.71	2.94	26.47	0.00	0.00	2.94	0.00	2.94	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	630.0	.0	.0	.0	.0	.0	.0	.0	630.0	630.0	100.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	375.0	.0	.0	.0	.0	.0	.0	.0	375.0	375.0	100.00
	15	650.0	.0	.0	.0	.0	.0	.0	.0	650.0	715.0	90.91
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,655.0	.0	.0	.0	.0	.0	.0	.0	1,655.0	1,720.0	96.22
ERCOT	23	2,292.0	.0	.0	.0	.0	.0	.0	.0	2,292.0	2,292.0	100.00
MAAC	5	1,525.0	.0	.0	.0	.0	.0	.0	.0	1,525.0	1,525.0	100.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MAPCA	20	2,820.0	.0	.0	.0	.0	.0	.0	.0	2,820.0	2,820.0	100.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	700.0	.0	.0	.0	.0	175.0	.0	.0	875.0	875.0	100.00
		700.0	.0	.0	.0	.0	175.0	.0	.0	875.0	875.0	100.00
SERC	7	1,968.0	.0	.0	.0	.0	.0	.0	.0	1,968.0	1,968.0	100.00
	9	1,462.0	.0	.0	.0	.0	.0	.0	.0	1,462.0	1,625.0	89.97
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	100.00
		3,930.0	.0	.0	.0	.0	.0	.0	.0	3,930.0	4,093.0	96.01
SWPP	8	750.0	.0	.0	.0	.0	.0	.0	.0	750.0	750.0	100.00
	10	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	83.0	0.00
	22	1,298.0	.0	.0	.0	.0	.0	.0	.0	1,298.0	1,298.0	100.00
		2,448.0	.0	.0	.0	.0	.0	.0	.0	2,448.0	2,531.0	96.72
WSCC	24	670.0	.0	.0	.0	.0	.0	.0	.0	670.0	670.0	100.00
	25	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	725.0	68.97
	26	350.0	.0	.0	.0	.0	.0	.0	.0	350.0	350.0	100.00
	27	750.0	.0	.0	.0	.0	.0	.0	.0	750.0	1,760.0	42.61
	28	125.0	.0	.0	.0	.0	.0	.0	.0	125.0	925.0	13.51
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		2,395.0	.0	.0	.0	.0	.0	.0	.0	2,395.0	4,430.0	54.06
SJBTOTAL		17,765.0	.0	.0	.0	.0	175.0	.0	.0	17,940.0	20,286.0	88.44

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	630.0	0.00
	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	15	.00	.00	65.00	.00	.00	.00	.00	.00	65.00	375.0	0.00
	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	715.0	9.09
	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
		.0	.0	65.0	.0	.0	.0	.0	.0	65.0	1,720.0	3.77
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,292.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,525.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	2,820.0	0.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	875.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	875.0	0.00
SEPC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,968.0	0.00
	9	163.00	.00	.00	.00	.00	.00	.00	.00	163.00	1,625.0	10.03
	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	500.0	0.00
		163.0	.0	.0	.0	.0	.0	.0	.0	163.0	4,093.0	3.98
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	750.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	83.0	83.0	83.0	100.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,298.0	0.00
		.0	.0	.0	.0	.0	.0	.0	83.0	83.0	2,531.0	3.27
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	670.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	225.0	225.0	725.0	31.03
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	350.0	0.00
	27	500.00	.00	510.00	.00	.00	.00	.00	.00	1,010.00	1,760.0	57.39
	28	800.00	.00	.00	.00	.00	.00	.00	.00	800.00	925.0	86.49
	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0.00
		1,300.0	.0	510.0	.0	.0	.0	.0	225.0	2,035.0	4,490.0	45.93
SJBOTAL		1,463.0	.0	575.0	.0	.0	.0	.0	308.0	2,346.0	20,286.0	11.56
TOTAL MW		19,228.0	.0	575.0	.0	.0	175.0	.0	308.0	20,286.0		
TOTAL %		94.78	0.00	2.33	0.00	0.00	0.86	0.00	1.52	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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(INCLUDES ONLY CONTIGUOUS U.S.)

1987

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	1	0	0	0	0	0	0	0	1	1	100.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	1	0	0	0	0	0	0	0	1	1	100.00
	15	1	0	0	0	0	0	0	0	1	2	50.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		3	0	0	0	0	0	0	0	3	4	75.00
ERCOT	23	4	0	0	0	0	0	0	0	4	4	100.00
MAAC	5	3	0	0	0	0	0	0	0	3	3	100.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	0	0.00
MARCA	20	6	0	0	0	0	0	0	0	6	6	100.00
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	1	0	0	0	0	1	0	0	2	2	100.00
		1	0	0	0	0	1	0	0	2	2	100.00
SERC	7	3	0	0	0	0	0	0	0	3	3	100.00
	9	2	0	0	0	0	0	0	0	2	3	66.67
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	1	0	0	0	0	0	0	0	1	1	100.00
		6	0	0	0	0	0	0	0	6	7	85.71
SWPP	8	1	0	0	0	0	0	0	0	1	1	100.00
	10	1	0	0	0	0	0	0	0	1	1	100.00
	21	0	0	0	0	0	0	0	0	0	0	0.00
	22	3	0	0	0	0	0	0	0	3	3	100.00
		5	0	0	0	0	0	0	0	5	6	83.33
WSCC	24	2	0	0	0	0	0	0	0	2	2	100.00
	25	1	0	0	0	0	0	0	0	1	2	50.00
	26	1	0	0	0	0	0	0	0	1	1	100.00
	27	1	0	0	0	0	0	0	0	1	4	25.00
	28	1	0	0	0	0	0	0	0	1	2	50.00
	30	0	0	0	0	0	0	0	0	0	0	0.00
		6	0	0	0	0	0	0	0	6	11	54.54
SUBTOTAL		34	0	0	0	0	1	0	0	35	43	81.40

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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1987

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NCT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	1	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	0	0	1	0	0	0	0	0	1	2	50.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	1	0	0	0	0	0	1	4	25.00
ERCOT	23	0	0	0	0	0	0	0	0	0	4	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	3	0.00
MAIN	6	0	0	0	0	0	0	0	0	0	0	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	0	0.00
MARCA	20	0	0	0	0	0	0	0	0	0	6	0.00
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	0	0	0	0	0	2	0.00
		0	0	0	0	0	0	0	0	0	2	0.00
SERC	7	0	0	0	0	0	0	0	0	0	3	0.00
	9	1	0	0	0	0	0	0	0	1	3	33.33
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	1	0.00
		1	0	0	0	0	0	0	0	1	7	14.28
SWPP	8	0	0	0	0	0	0	0	0	0	1	0.00
	10	0	0	0	0	0	0	0	0	0	1	0.00
	21	0	0	0	0	0	0	0	1	1	1	100.00
	22	0	0	0	0	0	0	0	0	0	3	0.00
		0	0	0	0	0	0	0	1	1	6	16.66
WSCC	24	0	0	0	0	0	0	0	0	0	2	0.00
	25	0	0	0	0	0	0	0	1	1	2	50.00
	26	1	0	0	0	0	0	0	0	0	1	0.00
	27	1	0	0	0	0	0	0	0	0	4	75.00
	28	1	0	0	0	0	0	0	0	1	2	50.00
	30	0	0	0	0	0	0	0	0	0	0	0.00
		2	0	2	0	0	0	0	1	5	11	45.45
SUBTOTAL		3	0	3	0	0	0	0	2	8	43	18.60
TOTAL NO		37	0	3	0	0	1	0	2	43		
TOTAL %		86.05	0.00	5.98	0.00	0.00	2.33	0.00	4.65	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1988

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	630.0	.0	.0	.0	.0	.0	.0	.0	630.0	630.0	100.00
	2	1,300.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	1,300.0	100.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	65.0	.0	.0	.0	.0	.0	65.0	65.0	100.00
	15	495.0	.0	.0	.0	.0	.0	.0	.0	495.0	495.0	100.00
	16	1,650.0	.0	.0	.0	.0	.0	.0	.0	1,650.0	1,650.0	100.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		4,075.0	.0	65.0	.0	.0	.0	.0	.0	4,140.0	4,140.0	100.00
ERCOT	23	3,420.0	.0	.0	.0	.0	.0	.0	.0	3,420.0	3,420.0	100.00
MAAC	5	250.0	.0	.0	.0	.0	.0	.0	.0	250.0	870.0	28.74
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	550.0	0.00
	17	350.0	.0	25.0	.0	.0	.0	.0	.0	375.0	375.0	100.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		350.0	.0	25.0	.0	.0	.0	.0	.0	375.0	925.0	40.54
MARCA	20	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	100.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	175.0	.0	.0	175.0	175.0	100.00
		.0	.0	.0	.0	.0	175.0	.0	.0	175.0	175.0	100.00
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	700.0	0.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	450.0	.0	.0	.0	.0	.0	.0	.0	450.0	450.0	100.00
		450.0	.0	.0	.0	.0	.0	.0	.0	450.0	1,150.0	39.13
SWPP	8	750.0	.0	.0	.0	.0	.0	.0	.0	750.0	750.0	100.00
	10	940.0	.0	.0	.0	.0	.0	.0	.0	940.0	940.0	100.00
	21	300.0	.0	.0	.0	.0	.0	.0	.0	300.0	300.0	100.00
	22	770.0	.0	.0	.0	.0	.0	.0	.0	770.0	770.0	100.00
		2,760.0	.0	.0	.0	.0	.0	.0	.0	2,760.0	2,760.0	100.00
WSCC	24	870.0	.0	.0	.0	.0	.0	.0	.0	870.0	870.0	100.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	0.00
	26	210.0	.0	.0	.0	.0	.0	.0	.0	210.0	210.0	100.00
	27	1,250.0	.0	.0	.0	.0	.0	.0	.0	1,250.0	1,750.0	71.43
	28	800.0	.0	.0	.0	.0	.0	.0	.0	800.0	800.0	100.00
	30	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	100.00
		3,630.0	.0	.0	.0	.0	.0	.0	.0	3,630.0	4,155.0	87.36
SUBTOTAL		15,435.0	.0	90.0	.0	.0	175.0	.0	.0	15,700.0	18,095.0	86.76

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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1988

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	630.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,300.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	65.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	495.0	0.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,650.0	0.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	4,140.0	0.00
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	3,420.0	0.00
MAAC	5	.0	.0	.0	620.0	.0	.0	.0	.0	620.0	870.0	71.26
MAIN	6	.0	.0	.0	.0	.0	.0	.0	550.0	550.0	550.0	100.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	375.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	550.0	550.0	925.0	59.45
MARCA	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0	0.00
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	175.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	175.0	0.00
SERC	7	700.0	.0	.0	.0	.0	.0	.0	.0	700.0	700.0	100.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	450.0	0.00
		700.0	.0	.0	.0	.0	.0	.0	.0	700.0	1,150.0	60.86
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	750.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	940.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	300.0	0.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	770.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	2,760.0	0.00
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	870.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	25.0	25.0	25.0	100.00
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	210.0	0.00
	27	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	1,750.0	28.57
	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	800.0	0.00
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0	0.00
		500.0	.0	.0	.0	.0	.0	.0	25.0	525.0	4,155.0	12.63
SJRTOTAL		1,200.0	.0	.0	620.0	.0	.0	.0	575.0	2,395.0	18,095.0	13.24
TOTAL MW		16,635.0	.0	90.0	620.0	.0	175.0	.0	575.0	18,095.0		
TOTAL %		91.93	0.00	0.50	3.43	0.00	0.97	0.00	3.18	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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		1988										
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER- CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	1	0	0	0	0	0	0	0	1	1	100.00
	2	1	0	0	0	0	0	0	0	1	1	100.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	1	0	0	0	0	0	1	1	100.00
	15	1	0	0	0	0	0	0	0	1	1	100.00
	16	3	0	0	0	0	0	0	0	3	3	100.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		6	0	1	0	0	0	0	0	7	7	100.00
ERCOT	23	6	0	0	0	0	0	0	0	6	6	100.00
MAAC	5	1	0	0	0	0	0	0	0	1	2	50.00
MAIN	6	0	0	0	0	0	0	0	0	0	1	0.00
	17	1	0	1	0	0	0	0	0	2	2	100.00
	19	0	0	0	0	0	0	0	0	0	0	0.00
		1	0	1	0	0	0	0	0	2	3	66.66
MAFCA	20	1	0	0	0	0	0	0	0	1	1	100.00
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	0	1	0	0	1	1	100.00
		0	0	0	0	0	1	0	0	1	1	100.00
SERC	7	0	0	0	0	0	0	0	0	0	1	0.00
	9	0	0	0	0	0	0	0	0	0	0	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	1	0	0	0	0	0	0	0	1	1	100.00
		1	0	0	0	0	0	0	0	1	2	50.00
SWPP	8	1	0	0	0	0	0	0	0	1	1	100.00
	10	2	0	0	0	0	0	0	0	2	2	100.00
	21	2	0	0	0	0	0	0	0	2	2	100.00
	22	2	0	0	0	0	0	0	0	2	2	100.00
		7	0	0	0	0	0	0	0	7	7	100.00
WSCC	24	2	0	0	0	0	0	0	0	2	2	100.00
	25	0	0	0	0	0	0	0	0	0	1	0.00
	26	1	0	0	0	0	0	0	0	1	1	100.00
	27	2	0	0	0	0	0	0	0	2	3	66.67
	28	1	0	0	0	0	0	0	0	1	1	100.00
	30	1	0	0	0	0	0	0	0	1	1	100.00
		7	0	0	0	0	0	0	0	7	9	77.77
SUBTOTAL		30	0	2	0	0	1	0	0	33	38	86.84

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

1988

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	1	0.00
	2	0	0	0	0	0	0	0	0	0	1	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	0	0	0	0	0	0	0	0	0	0	0.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	7	0.00
ERCOT	23	0	0	0	0	0	0	0	0	0	6	0.00
MAAC	5	0	0	0	0	0	0	0	0	1	2	50.00
MAIN	6	0	0	0	0	0	0	0	1	1	1	100.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	1	1	3	33.33
MARCA	20	0	0	0	0	0	0	0	0	0	1	0.00
NPCC	3	0	0	0	0	0	0	0	0	0	0	0.00
	4	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	1	0.00
SERC	7	1	0	0	0	0	0	0	0	1	1	100.00
	9	0	0	0	0	0	0	0	0	0	0	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	1	0.00
		1	0	0	0	0	0	0	0	1	2	50.00
SWPP	8	0	0	0	0	0	0	0	0	0	1	0.00
	10	0	0	0	0	0	0	0	0	0	2	0.00
	21	0	0	0	0	0	0	0	0	0	2	0.00
	22	0	0	0	0	0	0	0	0	0	2	0.00
		0	0	0	0	0	0	0	0	0	7	0.00
WSCC	24	0	0	0	0	0	0	0	0	0	2	0.00
	25	0	0	0	0	0	0	0	1	1	1	100.00
	26	0	0	0	0	0	0	0	0	0	1	0.00
	27	1	0	0	0	0	0	0	0	0	3	33.33
	28	0	0	0	0	0	0	0	0	0	1	0.00
	30	0	0	0	0	0	0	0	0	0	1	0.00
		1	0	0	0	0	0	0	1	2	9	22.22
SUBTOTAL		2	0	0	1	0	0	0	2	5	38	13.16
TOTAL NO		32	0	2	1	0	1	0	2	38		
TOTAL %		84.21	0.00	5.26	2.63	0.00	2.63	0.00	5.26	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1989

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	600.0	.0	.0	.0	.0	.0	.0	.0	600.0	600.0	100.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		600.0	.0	.0	.0	.0	.0	.0	.0	600.0	600.0	100.00
ERCOT	23	3,315.0	.0	.0	.0	.0	.0	.0	.0	3,315.0	3,315.0	100.00
MAAC	5	1,025.0	.0	.0	.0	.0	.0	.0	.0	1,025.0	1,025.0	100.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,100.0	0.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	19	400.0	.0	.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
		400.0	.0	.0	.0	.0	.0	.0	.0	400.0	1,500.0	26.66
MARCA	20	200.0	.0	.0	.0	.0	.0	.0	.0	200.0	207.7	96.29
NPCC	3	568.0	.0	.0	.0	.0	.0	.0	.0	568.0	568.0	100.00
	4	800.0	.0	.0	.0	.0	175.0	.0	.0	975.0	975.0	100.00
		1,368.0	.0	.0	.0	.0	175.0	.0	.0	1,543.0	1,543.0	100.00
SERC	7	1,210.0	.0	.0	.0	.0	.0	.0	.0	1,210.0	1,210.0	100.00
	9	808.0	.0	.0	.0	.0	.0	.0	.0	808.0	808.0	100.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	500.0	.0	.0	.0	.0	.0	.0	.0	500.0	500.0	100.00
		2,518.0	.0	.0	.0	.0	.0	.0	.0	2,518.0	2,518.0	100.00
SWPP	8	1,500.0	.0	.0	.0	.0	.0	.0	.0	1,500.0	1,500.0	100.00
	10	600.0	.0	.0	.0	.0	.0	.0	.0	600.0	600.0	100.00
	21	650.0	.0	.0	.0	.0	.0	.0	.0	650.0	650.0	100.00
	22	1,425.0	.0	.0	.0	.0	.0	.0	.0	1,425.0	1,425.0	100.00
		4,175.0	.0	.0	.0	.0	.0	.0	.0	4,175.0	4,175.0	100.00
WSCC	24	470.0	.0	.0	.0	.0	.0	.0	.0	470.0	470.0	100.00
	25	830.0	.0	.0	.0	.0	.0	.0	.0	830.0	830.0	100.00
	26	350.0	.0	50.0	.0	.0	.0	.0	.0	400.0	400.0	100.00
	27	1,250.0	.0	.0	.0	.0	.0	.0	.0	1,250.0	2,200.0	56.82
	28	125.0	.0	.0	.0	.0	.0	.0	.0	125.0	925.0	13.51
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		3,025.0	.0	50.0	.0	.0	.0	.0	.0	3,075.0	4,825.0	63.73
SUBTOTAL		16,626.0	.0	50.0	.0	.0	175.0	.0	.0	16,851.0	19,708.7	85.50

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

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1989												
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
MEGAWATTS OF FOSSIL-FUELED GENERATION WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	0.00
	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	0.00
ERCOT	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	3,315.0	0.00
MAAC	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,025.0	0.00
MAIN	6	.0	.0	.0	.0	.0	.0	.0	1,100.0	1,100.0	1,100.0	100.00
	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
		.0	.0	.0	.0	.0	.0	.0	1,100.0	1,100.0	1,500.0	73.33
MARCA	20	.0	7.7	.0	.0	.0	.0	.0	.0	7.7	207.7	3.71
NPCC	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	568.0	0.00
	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	975.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	1,543.0	0.00
SERC	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,210.0	0.00
	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	808.0	0.00
	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	500.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	2,518.0	0.00
SWPP	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,500.0	0.00
	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	600.0	0.00
	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	650.0	0.00
	22	.0	.0	.0	.0	.0	.0	.0	.0	.0	1,425.0	0.00
		.0	.0	.0	.0	.0	.0	.0	.0	.0	4,175.0	0.00
WSCC	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	470.0	0.00
	25	.0	.0	.0	.0	.0	.0	.0	.0	.0	830.0	0.00
	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	400.0	0.00
	27	950.0	.0	.0	.0	.0	.0	.0	.0	950.0	2,200.0	43.18
	28	800.0	.0	.0	.0	.0	.0	.0	.0	800.0	925.0	86.49
	30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.00
		1,750.0	.0	.0	.0	.0	.0	.0	.0	1,750.0	4,825.0	36.26
SUBTOTAL	1,750.0	7.7	.0	.0	.0	.0	.0	1,100.0	2,857.7	19,708.7	14.50	
TOTAL MW	18,376.0	7.7	50.0	.0	.0	.0	175.0	.0	1,100.0	19,708.7		
TOTAL %	93.24	0.04	0.25	0.00	0.00	0.00	0.89	0.00	5.58	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
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1989

COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITHOUT ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	1	0	0	0	0	0	0	0	1	1	100.00
	15	0	0	0	0	0	0	0	0	0	0	0.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		1	0	0	0	0	0	0	0	1	1	100.00
ERCOT	23	6	0	0	0	0	0	0	0	6	6	100.00
MAAC	5	2	0	0	0	0	0	0	0	2	2	100.00
MAIN	6	0	0	0	0	0	0	0	0	0	2	0.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	1	0	0	0	0	0	0	0	1	1	100.00
		1	0	0	0	0	0	0	0	1	3	33.33
MARCA	20	1	0	0	0	0	0	0	0	1	2	50.00
NPCC	3	1	0	0	0	0	0	0	0	1	1	100.00
	4	1	0	0	0	0	1	0	0	2	2	100.00
		2	0	0	0	0	1	0	0	3	3	100.00
SERC	7	3	0	0	0	0	0	0	0	3	3	100.00
	9	1	0	0	0	0	0	0	0	1	1	100.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	1	0	0	0	0	0	0	0	1	1	100.00
		5	0	0	0	0	0	0	0	5	5	100.00
SWPP	8	2	0	0	0	0	0	0	0	2	2	100.00
	10	1	0	0	0	0	0	0	0	1	1	100.00
	21	1	0	0	0	0	0	0	0	1	1	100.00
	22	3	0	0	0	0	0	0	0	3	3	100.00
		7	0	0	0	0	0	0	0	7	7	100.00
WSCC	24	1	0	0	0	0	0	0	0	1	1	100.00
	25	2	0	0	0	0	0	0	0	2	2	100.00
	26	1	0	0	0	0	0	0	0	1	2	100.00
	27	2	0	0	0	0	0	0	0	2	2	50.00
	28	1	0	0	0	0	0	0	0	1	4	50.00
	30	0	0	0	0	0	0	0	0	0	0	0.00
		7	0	1	0	0	0	0	0	8	11	72.72
SUBTOTAL		32	0	1	0	0	1	0	0	34	40	85.00

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

PROPOSED GENERATING CAPACITY ADDITIONS BY FOSSIL FUEL TYPE
FOR THE PERIOD 1980 THRU 1989
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		1989										
COUNCIL	REGION	COAL	GAS	MIDDLE OIL	HEAVY OIL	WASTE HEAT	REFUSE	MISC FUELED	NOT REPORTED	SUBTOTAL	TOTAL (1)	PER-CENT
NUMBER OF FOSSIL-FUELED GENERATING UNITS WITH ALTERNATE FUEL CAPABILITY												
ECAR	1	0	0	0	0	0	0	0	0	0	0	0.00
	2	0	0	0	0	0	0	0	0	0	0	0.00
	13	0	0	0	0	0	0	0	0	0	0	0.00
	14	0	0	0	0	0	0	0	0	0	0	0.00
	15	0	0	0	0	0	0	0	0	0	0	0.00
	16	0	0	0	0	0	0	0	0	0	0	0.00
	18	0	0	0	0	0	0	0	0	0	0	0.00
		0	0	0	0	0	0	0	0	0	1	0.00
ERCOT	23	0	0	0	0	0	0	0	0	0	6	0.00
MAAC	5	0	0	0	0	0	0	0	0	0	2	0.00
MAIN	6	0	0	0	0	0	0	0	2	2	2	100.00
	17	0	0	0	0	0	0	0	0	0	0	0.00
	19	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	2	2	3	66.66
MARCA	20	0	1	0	0	0	0	0	0	1	2	50.00
NPCC	3	0	0	0	0	0	0	0	0	0	1	0.00
	4	0	0	0	0	0	0	0	0	0	2	0.00
		0	0	0	0	0	0	0	0	0	3	0.00
SEPC	7	0	0	0	0	0	0	0	0	0	3	0.00
	9	0	0	0	0	0	0	0	0	0	1	0.00
	11	0	0	0	0	0	0	0	0	0	0	0.00
	12	0	0	0	0	0	0	0	0	0	1	0.00
		0	0	0	0	0	0	0	0	0	5	0.00
SWPP	8	0	0	0	0	0	0	0	0	0	2	0.00
	10	0	0	0	0	0	0	0	0	0	1	0.00
	21	0	0	0	0	0	0	0	0	0	1	0.00
	22	0	0	0	0	0	0	0	0	0	3	0.00
		0	0	0	0	0	0	0	0	0	7	0.00
WSCC	24	0	0	0	0	0	0	0	0	0	1	0.00
	25	0	0	0	0	0	0	0	0	0	2	0.00
	26	0	0	0	0	0	0	0	0	0	2	0.00
	27	0	0	0	0	0	0	0	0	0	4	50.00
	28	1	0	0	0	0	0	0	0	1	2	50.00
	30	0	0	0	0	0	0	0	0	0	0	0.00
		3	0	0	0	0	0	0	0	3	11	27.27
SUBTOTAL		3	1	0	0	0	0	0	2	6	40	15.00
TOTAL NO		35	1	1	0	0	1	0	2	40		
TOTAL %		87.50	2.50	2.50	0.00	0.00	2.50	0.00	5.00	100.00		

(1) SUMMATION OF GENERATION WITH AND WITHOUT ALTERNATE FUEL CAPABILITY.
NOTES: MIDDLE DISTILLATE OIL INCLUDES NO. 1, 2 OIL, KEROSENE AND JET FUEL.
HEAVY OIL INCLUDES NO. 4, 5, 6 OIL, BUNKER AND CRUDE.

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

(INCLUDES ONLY CONTIGUOUS U.S.)

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COUNCIL	REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
MEGAWATTS						
ECAR	1	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0
	13	820.0	2,358.0	.0	.0	3,178.0
	14	.0	792.0	.0	.0	792.0
	15	.0	.0	.0	.0	.0
	16	2,260.0	644.0	.0	.0	2,904.0
	18	1,288.0	1,093.0	.0	.0	2,381.0
		4,368.0	4,887.0	.0	.0	9,255.0
ERCOT	23	4,800.0	1,130.0	.0	.0	5,930.0
MAAC	5	2,235.0	6,342.0	.0	.0	8,577.0
MAIN	6	4,420.0	2,096.0	.0	.0	6,516.0
	17	2,300.0	948.0	.0	.0	3,248.0
	19	.0	.0	.0	.0	.0
		6,720.0	3,044.0	.0	.0	9,764.0
NPCC	3	4,600.0	.0	.0	.0	4,600.0
	4	.0	1,900.0	.0	.0	1,900.0
		4,600.0	1,900.0	.0	.0	6,500.0
SERC	7	795.0	.0	.0	.0	795.0
	9	3,107.0	.0	.0	.0	3,107.0
	11	9,646.0	6,165.0	.0	.0	15,811.0
	12	10,962.0	.0	.0	.0	10,962.0
		24,510.0	6,165.0	.0	.0	30,675.0
SWPP	8	2,022.0	2,500.0	.0	.0	4,522.0
	10	.0	940.0	.0	.0	940.0
	21	1,150.0	.0	.0	.0	1,150.0
	22	.0	1,150.0	.0	.0	1,150.0
		3,172.0	4,590.0	.0	.0	7,762.0
WSCC	24	.0	.0	.0	.0	.0
	25	4,980.0	1,100.0	.0	.0	6,080.0
	26	3,810.0	.0	.0	.0	3,810.0
	27	2,200.0	.0	.0	.0	2,200.0
	28	2,190.0	.0	.0	.0	2,190.0
	30	.0	.0	.0	.0	.0
		13,180.0	1,100.0	.0	.0	14,280.0
TOTAL MW		63,585.0	29,158.0	.0	.0	92,743.0
TOTAL %		68.56	31.43	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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1980 - 1989

COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
NUMBER OF UNITS					
ECAR 1	0	0	0	0	0
2	0	0	0	0	0
13	1	2	0	0	3
14	0	1	0	0	1
15	0	0	0	0	0
16	2	1	0	0	3
18	2	1	0	0	3
	-----	-----	-----	-----	-----
	5	5	0	0	10
ERCOT 23	4	1	0	0	5
MAAC 5	2	6	0	0	8
MAIN 6	4	2	0	0	6
17	2	1	0	0	3
19	0	0	0	0	0
	-----	-----	-----	-----	-----
	6	3	0	0	9
NPCC 3	4	0	0	0	4
4	0	2	0	0	2
	-----	-----	-----	-----	-----
	4	2	0	0	6
SERC 7	1	0	0	0	1
9	3	0	0	0	3
11	8	5	0	0	13
12	11	0	0	0	11
	-----	-----	-----	-----	-----
	23	5	0	0	28
SWPP 8	2	2	0	0	4
10	0	1	0	0	1
21	1	0	0	0	1
22	0	1	0	0	1
	-----	-----	-----	-----	-----
	3	4	0	0	7
WSCC 24	0	0	0	0	0
25	4	1	0	0	5
26	3	0	0	0	3
27	2	0	0	0	2
28	2	0	0	0	2
30	0	0	0	0	0
	-----	-----	-----	-----	-----
	11	1	0	0	12
TOTAL NO	58	27	0	0	85
TOTAL %	68.23	31.76	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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(INCLUDES ONLY CONTIGUOUS U.S.)

		1980				
COUNCIL	REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
		-----				-----
MEGAWATTS						

ECAR	1	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0
	18	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0
ERCOT	23	.0	.0	.0	.0	.0
MAAC	5	1,115.0	.0	.0	.0	1,115.0
MAIN	6	.0	1,048.0	.0	.0	1,048.0
	17	.0	.0	.0	.0	.0
	19	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		.0	1,048.0	.0	.0	1,048.0
NPCC	3	.0	.0	.0	.0	.0
	4	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0
SERC	7	.0	.0	.0	.0	.0
	9	807.0	.0	.0	.0	807.0
	11	1,148.0	.0	.0	.0	1,148.0
	12	2,978.0	.0	.0	.0	2,978.0
		-----	-----	-----	-----	-----
		4,933.0	.0	.0	.0	4,933.0
SWPP	8	912.0	.0	.0	.0	912.0
	10	.0	.0	.0	.0	.0
	21	.0	.0	.0	.0	.0
	22	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		912.0	.0	.0	.0	912.0
WSCC	24	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0
	26	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0
TOTAL MW		6,960.0	1,048.0	.0	.0	8,008.0
TOTAL %		86.91	13.08	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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1980					
COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
NUMBER OF UNITS					
ECAR 1	0	0	0	0	0
2	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
18	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
ERCOT 23	0	0	0	0	0
MAAC 5	1	0	0	0	1
MAIN 6	0	1	0	0	1
17	0	0	0	0	0
19	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	1	0	0	1
NPCC 3	0	0	0	0	0
4	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
SERC 7	0	0	0	0	0
9	1	0	0	0	1
11	1	0	0	0	1
12	3	0	0	0	3
	-----	-----	-----	-----	-----
	5	0	0	0	5
SWPP 8	1	0	0	0	1
10	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
	-----	-----	-----	-----	-----
	1	0	0	0	1
WSCC 24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
30	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
TOTAL NO	7	1	0	0	8
TOTAL %	87.50	12.50	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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1981

COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS

MEGAWATTS					

ECAR 1	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0
14	.0	792.0	.0	.0	792.0
15	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	.0	792.0	.0	.0	792.0
ERCOT 23	1,150.0	.0	.0	.0	1,150.0
MAAC 5	.0	.0	.0	.0	.0
MAIN 6	.0	1,048.0	.0	.0	1,048.0
17	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	.0	1,048.0	.0	.0	1,048.0
NPCC 3	.0	.0	.0	.0	.0
4	.0	820.0	.0	.0	820.0
	-----	-----	-----	-----	-----
	.0	820.0	.0	.0	820.0
SERC 7	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0
11	2,325.0	.0	.0	.0	2,325.0
12	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	2,325.0	.0	.0	.0	2,325.0
SWPP 8	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0
WSCC 24	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0
27	1,100.0	.0	.0	.0	1,100.0
28	2,190.0	.0	.0	.0	2,190.0
30	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	3,290.0	.0	.0	.0	3,290.0
TOTAL MW	6,765.0	2,660.0	.0	.0	9,425.0
TOTAL %	71.77	28.22	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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1981

COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
NUMBER OF UNITS						
ECAR	1	0	0	0	0	0
	2	0	0	0	0	0
	13	0	0	0	0	0
	14	0	1	0	0	1
	15	0	0	0	0	0
	16	0	0	0	0	0
	18	0	0	0	0	0
		0	1	0	0	1
ERCDT	23	1	0	0	0	1
MAAC	5	0	0	0	0	0
MAIN	6	0	1	0	0	1
	17	0	0	0	0	0
	19	0	0	0	0	0
		0	1	0	0	1
NPCC	3	0	0	0	0	0
	4	0	1	0	0	1
		0	1	0	0	1
SERC	7	0	0	0	0	0
	9	0	0	0	0	0
	11	0	0	0	0	0
	12	0	0	0	0	0
		2	0	0	0	2
SWPP	8	0	0	0	0	0
	10	0	0	0	0	0
	21	0	0	0	0	0
	22	0	0	0	0	0
		0	0	0	0	0
WSCC	24	0	0	0	0	0
	25	0	0	0	0	0
	26	0	0	0	0	0
	27	0	0	0	0	0
	28	0	0	0	0	0
	30	0	0	0	0	0
		3	0	0	0	3
TOTAL NO		6	3	0	0	9
TOTAL %		66.66	33.33	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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		1982				
COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS

MEGAWATTS						

ECAR	1	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0
	16	1,130.0	.0	.0	.0	1,130.0
	18	.0	1,093.0	.0	.0	1,093.0
		1,130.0	1,093.0	.0	.0	2,223.0
ERCOT	23	.0	.0	.0	.0	.0
MAAC	5	.0	1,050.0	.0	.0	1,050.0
MAIN	6	1,120.0	.0	.0	.0	1,120.0
	17	1,150.0	948.0	.0	.0	2,098.0
	19	.0	.0	.0	.0	.0
		2,270.0	948.0	.0	.0	3,218.0
NPCC	3	.0	.0	.0	.0	.0
	4	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0
SERC	7	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0
	11	1,177.0	.0	.0	.0	1,177.0
	12	1,180.0	.0	.0	.0	1,180.0
		2,357.0	.0	.0	.0	2,357.0
SWPP	8	1,110.0	1,250.0	.0	.0	2,360.0
	10	.0	.0	.0	.0	.0
	21	.0	.0	.0	.0	.0
	22	.0	.0	.0	.0	.0
		1,110.0	1,250.0	.0	.0	2,360.0
WSCC	24	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0
	26	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0
TOTAL MW		6,867.0	4,341.0	.0	.0	11,208.0
TOTAL %		61.26	38.73	0.00	0.00	100.00

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COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
1982 ----- NUMBER OF UNITS -----						
ECAR	1	0	0	0	0	0
	2	0	0	0	0	0
	13	0	0	0	0	0
	14	0	0	0	0	0
	15	0	0	0	0	0
	16	1	0	0	0	1
	18	0	1	0	0	1
		-----	-----	-----	-----	-----
		1	1	0	0	2
ERCOT	23	0	0	0	0	0
MAAC	5	0	1	0	0	1
MAIN	6	1	0	0	0	1
	17	1	0	0	0	2
	19	0	0	0	0	0
		-----	-----	-----	-----	-----
		2	1	0	0	3
NPCC	3	0	0	0	0	0
	4	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
SERC	7	0	0	0	0	0
	9	0	0	0	0	0
	11	1	0	0	0	1
	12	1	0	0	0	1
		-----	-----	-----	-----	-----
		2	0	0	0	2
SWPP	8	1	1	0	0	2
	10	0	0	0	0	0
	21	0	0	0	0	0
	22	0	0	0	0	0
		-----	-----	-----	-----	-----
		1	1	0	0	2
WSCC	24	0	0	0	0	0
	25	0	0	0	0	0
	26	0	0	0	0	0
	27	0	0	0	0	0
	28	0	0	0	0	0
	30	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
TOTAL NO		-----	-----	-----	-----	-----
		6	4	0	0	10
TOTAL %		60.00	40.00	0.00	0.00	100.00

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
MEGAWATTS					
ECAR 1	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0
ERCOT 23	1,150.0	.0	.0	.0	1,150.0
MAAC 5	.0	1,050.0	.0	.0	1,050.0
MAIN 6	2,210.0	.0	.0	.0	2,210.0
17	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	2,210.0	.0	.0	.0	2,210.0
NPCC 3	1,150.0	.0	.0	.0	1,150.0
4	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	1,150.0	.0	.0	.0	1,150.0
SERC 7	795.0	.0	.0	.0	795.0
9	.0	.0	.0	.0	.0
11	1,213.0	.0	.0	.0	1,213.0
12	1,145.0	.0	.0	.0	1,145.0
	-----	-----	-----	-----	-----
	3,153.0	.0	.0	.0	3,153.0
SWPP 8	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0
21	1,150.0	.0	.0	.0	1,150.0
22	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	1,150.0	.0	.0	.0	1,150.0
WSCC 24	.0	.0	.0	.0	.0
25	.0	1,100.0	.0	.0	1,100.0
26	1,270.0	.0	.0	.0	1,270.0
27	1,100.0	.0	.0	.0	1,100.0
28	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	2,370.0	1,100.0	.0	.0	3,470.0
TOTAL MW	11,163.0	2,150.0	.0	.0	13,333.0
TOTAL %	83.87	16.12	0.00	0.00	100.00

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COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
NUMBER OF UNITS					
ECAR 1	0	0	0	0	0
2	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
18	0	0	0	0	0
	0	0	0	0	0
ERCOT 23	1	0	0	0	1
MAAC 5	0	1	0	0	1
MAIN 6	2	0	0	0	2
17	0	0	0	0	0
19	0	0	0	0	0
	2	0	0	0	2
NPCC 3	1	0	0	0	1
4	0	0	0	0	0
	1	0	0	0	1
SERC 7	1	0	0	0	1
9	0	0	0	0	0
11	1	0	0	0	1
12	1	0	0	0	1
	3	0	0	0	3
SWPP 8	0	0	0	0	0
10	0	0	0	0	0
21	1	0	0	0	1
22	0	0	0	0	0
	1	0	0	0	1
WSCC 24	0	0	0	0	0
25	0	1	0	0	1
26	1	0	0	0	1
27	1	0	0	0	1
28	0	0	0	0	0
30	0	0	0	0	0
	2	1	0	0	3
TOTAL NO	10	2	0	0	12
TOTAL %	83.33	16.66	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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		1984				
COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
		MEGAWATTS				
ECAR	1	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0
	13	.0	1,179.0	.0	.0	1,179.0
	14	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0
	16	1,130.0	.0	.0	.0	1,130.0
	18	783.0	.0	.0	.0	783.0
		1,913.0	1,179.0	.0	.0	3,092.0
ERCOT	23	1,250.0	.0	.0	.0	1,250.0
MAAC	5	.0	.0	.0	.0	.0
MAIN	6	1,090.0	.0	.0	.0	1,090.0
	17	.0	.0	.0	.0	.0
	19	.0	.0	.0	.0	.0
		1,090.0	.0	.0	.0	1,090.0
NPCC	3	.0	.0	.0	.0	.0
	4	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0
SERC	7	.0	.0	.0	.0	.0
	9	1,150.0	.0	.0	.0	1,150.0
	11	1,213.0	.0	.0	.0	1,213.0
	12	900.0	.0	.0	.0	900.0
		3,263.0	.0	.0	.0	3,263.0
SWPP	8	.0	.0	.0	.0	.0
	10	.0	940.0	.0	.0	940.0
	21	.0	.0	.0	.0	.0
	22	.0	.0	.0	.0	.0
		.0	940.0	.0	.0	940.0
WSCC	24	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0
	26	1,270.0	.0	.0	.0	1,270.0
	27	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0
		1,270.0	.0	.0	.0	1,270.0
TOTAL MW		8,786.0	2,119.0	.0	.0	10,905.0
TOTAL %		80.56	19.43	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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1984

COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
NUMBER OF UNITS					
ECAR 1	0	0	0	0	0
2	0	0	0	0	0
13	0	1	0	0	1
14	0	0	0	0	0
15	0	0	0	0	0
16	1	0	0	0	1
18	1	0	0	0	1
	-----	-----	-----	-----	-----
	2	1	0	0	3
ERCOT 23	1	0	0	0	1
MAAC 5	0	0	0	0	0
MAIN 6	1	0	0	0	1
17	0	0	0	0	0
19	0	0	0	0	0
	-----	-----	-----	-----	-----
	1	0	0	0	1
NPCC 3	0	0	0	0	0
4	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
SERC 7	0	0	0	0	0
9	1	0	0	0	1
11	1	0	0	0	1
12	1	0	0	0	1
	-----	-----	-----	-----	-----
	3	0	0	0	3
SWPP 8	0	0	0	0	0
10	0	1	0	0	1
21	0	0	0	0	0
22	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	1	0	0	1
WSCC 24	0	0	0	0	0
25	0	0	0	0	0
26	1	0	0	0	1
27	0	0	0	0	0
28	0	0	0	0	0
30	0	0	0	0	0
	-----	-----	-----	-----	-----
	1	0	0	0	1
	-----	-----	-----	-----	-----
TOTAL NO	8	2	0	0	10
TOTAL %	80.00	20.00	0.00	0.00	100.00

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PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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		1985				
COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
MEGAWATTS						
ECAR	1	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0
	18	505.0	.0	.0	.0	505.0
		505.0	.0	.0	.0	505.0
ERCOT	23	.0	.0	.0	.0	.0
MAAC	5	.0	2,121.0	.0	.0	2,121.0
MAIN	6	.0	.0	.0	.0	.0
	17	.0	.0	.0	.0	.0
	19	.0	.0	.0	.0	.0
		.0	.0	.0	.0	.0
NPCC	3	2,300.0	.0	.0	.0	2,300.0
	4	.0	.0	.0	.0	.0
		2,300.0	.0	.0	.0	2,300.0
SERC	7	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0
	11	1,285.0	.0	.0	.0	1,285.0
	12	1,145.0	.0	.0	.0	1,145.0
		2,430.0	.0	.0	.0	2,430.0
SWPP	8	.0	1,250.0	.0	.0	1,250.0
	10	.0	.0	.0	.0	.0
	21	.0	.0	.0	.0	.0
	22	.0	.0	.0	.0	.0
		.0	1,250.0	.0	.0	1,250.0
WSCC	24	.0	.0	.0	.0	.0
	25	1,250.0	.0	.0	.0	1,250.0
	26	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0
		1,250.0	.0	.0	.0	1,250.0
TOTAL MW		6,485.0	3,371.0	.0	.0	9,856.0
TOTAL %		65.79	34.20	0.00	0.00	100.00

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1985

COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
		NUMBER OF UNITS				
ECAR	1	0	0	0	0	0
	2	0	0	0	0	0
	13	0	0	0	0	0
	14	0	0	0	0	0
	15	0	0	0	0	0
	16	0	0	0	0	0
	18	1	0	0	0	1
		-----	-----	-----	-----	-----
		1	0	0	0	1
ERCOT	23	0	0	0	0	0
MAAC	5	0	2	0	0	2
MAIN	6	0	0	0	0	0
	17	0	0	0	0	0
	19	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
NPCC	3	2	0	0	0	2
	4	0	0	0	0	0
		-----	-----	-----	-----	-----
		2	0	0	0	2
SERC	7	0	0	0	0	0
	9	0	0	0	0	0
	11	1	0	0	0	1
	12	1	0	0	0	1
		-----	-----	-----	-----	-----
		2	0	0	0	2
SWPP	8	0	1	0	0	1
	10	0	0	0	0	0
	21	0	0	0	0	0
	22	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	1	0	0	1
WSCC	24	0	0	0	0	0
	25	1	0	0	0	1
	26	0	0	0	0	0
	27	0	0	0	0	0
	28	0	0	0	0	0
	30	0	0	0	0	0
		-----	-----	-----	-----	-----
		1	0	0	0	1
		-----	-----	-----	-----	-----
TOTAL NO		6	3	0	0	9
TOTAL %		66.66	33.33	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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1986

COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
MEGAWATTS					
ECAR 1	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0
13	820.0	.0	.0	.0	820.0
14	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0
	820.0	.0	.0	.0	820.0
ERCOT 23	1,250.0	.0	.0	.0	1,250.0
MAAC 5	1,120.0	.0	.0	.0	1,120.0
MAIN 6	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0
NPCC 3	1,150.0	.0	.0	.0	1,150.0
4	.0	1,080.0	.0	.0	1,080.0
	1,150.0	1,080.0	.0	.0	2,230.0
SERC 7	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0
11	.0	1,233.0	.0	.0	1,233.0
12	.0	.0	.0	.0	.0
	.0	1,233.0	.0	.0	1,233.0
SWPP 8	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0
WSCC 24	.0	.0	.0	.0	.0
25	2,490.0	.0	.0	.0	2,490.0
26	1,270.0	.0	.0	.0	1,270.0
27	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0
	3,760.0	.0	.0	.0	3,760.0
TOTAL MW	8,100.0	2,313.0	.0	.0	10,413.0
TOTAL %	77.78	22.21	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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		1986				TOTAL ADDITIONS
COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	
		NUMBER OF UNITS				
ECAR	1	0	0	0	0	0
	2	0	0	0	0	0
	13	1	0	0	0	1
	14	0	0	0	0	0
	15	0	0	0	0	0
	16	0	0	0	0	0
	18	0	0	0	0	0
		-----	-----	-----	-----	-----
		1	0	0	0	1
ERCOT	23	1	0	0	0	1
MAAC	5	1	0	0	0	1
MAIN	6	0	0	0	0	0
	17	0	0	0	0	0
	19	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
NPCC	3	1	0	0	0	1
	4	0	1	0	0	1
		-----	-----	-----	-----	-----
		1	1	0	0	2
SERC	7	0	0	0	0	0
	9	0	0	0	0	0
	11	0	1	0	0	1
	12	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	1	0	0	1
SWPP	8	0	0	0	0	0
	10	0	0	0	0	0
	21	0	0	0	0	0
	22	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
WSCC	24	0	0	0	0	0
	25	2	0	0	0	2
	26	1	0	0	0	1
	27	0	0	0	0	0
	28	0	0	0	0	0
	30	0	0	0	0	0
		-----	-----	-----	-----	-----
		3	0	0	0	3
		-----	-----	-----	-----	-----
TOTAL NO		7	2	0	0	9
TOTAL %		77.77	22.22	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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		1987				
COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
<u>MEGAWATTS</u>						
ECAR	1	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0
	13	.0	.0	.0	.0	.0
	14	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0
	16	.0	644.0	.0	.0	644.0
	18	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		.0	644.0	.0	.0	644.0
ERCOT	23	.0	1,130.0	.0	.0	1,130.0
MAAC	5	.0	2,121.0	.0	.0	2,121.0
MAIN	6	.0	.0	.0	.0	.0
	17	.0	.0	.0	.0	.0
	19	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0
NPCC	3	.0	.0	.0	.0	.0
	4	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		.0	.0	.0	.0	.0
SERC	7	.0	.0	.0	.0	.0
	9	1,150.0	.0	.0	.0	1,150.0
	11	.0	2,466.0	.0	.0	2,466.0
	12	1,807.0	.0	.0	.0	1,807.0
		-----	-----	-----	-----	-----
		2,957.0	2,466.0	.0	.0	5,423.0
SWPP	8	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0
	21	.0	.0	.0	.0	.0
	22	.0	1,150.0	.0	.0	1,150.0
		-----	-----	-----	-----	-----
		.0	1,150.0	.0	.0	1,150.0
WSCC	24	.0	.0	.0	.0	.0
	25	1,240.0	.0	.0	.0	1,240.0
	26	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0
		-----	-----	-----	-----	-----
		1,240.0	.0	.0	.0	1,240.0
TOTAL MW		4,197.0	7,511.0	.0	.0	11,708.0
TOTAL %		35.84	64.15	0.00	0.00	100.00

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COUNCIL REGION		1987 NUMBER OF UNITS				TOTAL ADDITIONS
		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	
ECAR	1	0	0	0	0	0
	2	0	0	0	0	0
	13	0	0	0	0	0
	14	0	0	0	0	0
	15	0	0	0	0	0
	16	0	1	0	0	1
	18	0	0	0	0	0
		-----	-----	-----	-----	-----
ERCOT	23	0	1	0	0	1
	MAAC 5	0	1	0	0	1
	MAIN 6	0	2	0	0	2
	17	0	0	0	0	0
	19	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
NPCC	3	0	0	0	0	0
	4	0	0	0	0	0
		-----	-----	-----	-----	-----
SERC	7	0	0	0	0	0
	9	0	0	0	0	0
	11	1	0	0	0	1
	12	0	2	0	0	2
		-----	-----	-----	-----	-----
SWPP	8	3	2	0	0	5
	10	0	0	0	0	0
	21	0	0	0	0	0
	22	0	1	0	0	1
		-----	-----	-----	-----	-----
WSCC	24	0	1	0	0	1
	25	0	0	0	0	0
	26	1	0	0	0	1
	27	0	0	0	0	0
	28	0	0	0	0	0
	30	0	0	0	0	0
		-----	-----	-----	-----	-----
TOTAL NO		4	7	0	0	11
TOTAL %		36.36	63.63	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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		1988				
COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
<hr/>						
MEGAWATTS						
<hr/>						
ECAR	1	.0	.0	.0	.0	.0
	2	.0	.0	.0	.0	.0
	13	.0	1,179.0	.0	.0	1,179.0
	14	.0	.0	.0	.0	.0
	15	.0	.0	.0	.0	.0
	16	.0	.0	.0	.0	.0
	18	.0	.0	.0	.0	.0
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		.0	1,179.0	.0	.0	1,179.0
ERCOT	23	.0	.0	.0	.0	.0
MAAC	5	.0	.0	.0	.0	.0
MAIN	6	.0	.0	.0	.0	.0
	17	1,150.0	.0	.0	.0	1,150.0
	19	.0	.0	.0	.0	.0
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		1,150.0	.0	.0	.0	1,150.0
NPCC	3	.0	.0	.0	.0	.0
	4	.0	.0	.0	.0	.0
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		.0	.0	.0	.0	.0
SERC	7	.0	.0	.0	.0	.0
	9	.0	.0	.0	.0	.0
	11	1,285.0	.0	.0	.0	1,285.0
	12	907.0	.0	.0	.0	907.0
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		2,192.0	.0	.0	.0	2,192.0
SWPP	8	.0	.0	.0	.0	.0
	10	.0	.0	.0	.0	.0
	21	.0	.0	.0	.0	.0
	22	.0	.0	.0	.0	.0
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		.0	.0	.0	.0	.0
WSCC	24	.0	.0	.0	.0	.0
	25	.0	.0	.0	.0	.0
	26	.0	.0	.0	.0	.0
	27	.0	.0	.0	.0	.0
	28	.0	.0	.0	.0	.0
	30	.0	.0	.0	.0	.0
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		.0	.0	.0	.0	.0
TOTAL MW		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		3,342.0	1,179.0	.0	.0	4,521.0
TOTAL %		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		73.92	26.07	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY
(INCLUDES ONLY CONTIGUOUS U.S.)

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		1988				
COUNCIL REGION		PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
		NUMBER OF UNITS				
ECAR	1	0	0	0	0	0
	2	0	0	0	0	0
	13	0	1	0	0	1
	14	0	0	0	0	0
	15	0	0	0	0	0
	16	0	0	0	0	0
	18	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	1	0	0	1
ERCOT	23	0	0	0	0	0
MAAC	5	0	0	0	0	0
MAIN	6	0	0	0	0	0
	17	1	0	0	0	1
	19	0	0	0	0	0
		-----	-----	-----	-----	-----
		1	0	0	0	1
NPCC	3	0	0	0	0	0
	4	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
SERC	7	0	0	0	0	0
	9	0	0	0	0	0
	11	1	0	0	0	1
	12	1	0	0	0	1
		-----	-----	-----	-----	-----
		2	0	0	0	2
SWPP	8	0	0	0	0	0
	10	0	0	0	0	0
	21	0	0	0	0	0
	22	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
WSCC	24	0	0	0	0	0
	25	0	0	0	0	0
	26	0	0	0	0	0
	27	0	0	0	0	0
	28	0	0	0	0	0
	30	0	0	0	0	0
		-----	-----	-----	-----	-----
		0	0	0	0	0
		-----	-----	-----	-----	-----
TOTAL NO		3	1	0	0	4
TOTAL %		75.00	25.00	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
FOR THE PERIOD 1980 THRU 1989

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(INCLUDES ONLY CONTIGUOUS U.S.)

1989

COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS

MEGAWATTS					

ECAR 1	.0	.0	.0	.0	.0
2	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00
18	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0
ERCOT 23	.0	.0	.0	.0	.0
MAAC 5	.0	.0	.0	.0	.0
MAIN 6	.0	.0	.0	.0	.0
17	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0
NPCC 3	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0
	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0
SERC 7	.0	.0	.0	.0	.0
9	.00	.00	.00	.00	.00
11	.00	2,466.00	.00	.00	2,466.00
12	900.00	.00	.00	.00	900.00
	-----	-----	-----	-----	-----
	900.0	2,466.0	.0	.0	3,366.0
SWPP 8	.0	.0	.0	.0	.0
10	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0
WSCC 24	.0	.0	.0	.0	.0
25	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00
	-----	-----	-----	-----	-----
	.0	.0	.0	.0	.0
TOTAL MW	900.0	2,466.0	.0	.0	3,366.0
TOTAL %	26.73	73.26	0.00	0.00	100.00

PROPOSED NUCLEAR GENERATING CAPACITY ADDITIONS
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(INCLUDES ONLY CONTIGUOUS U.S.)

1989

COUNCIL REGION	PRESSURIZED WATER REACTOR	BOILING WATER REACTOR	HIGH TEMPERATURE GAS COOLED REACTOR	TYPE OF REACTOR NOT REPORTED	TOTAL ADDITIONS
NUMBER OF UNITS					
ECAR 1	0	0	0	0	0
2	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
18	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
ERCOT 23	0	0	0	0	0
MAAC 5	0	0	0	0	0
MAIN 6	0	0	0	0	0
17	0	0	0	0	0
19	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
NPCC 3	0	0	0	0	0
4	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
SERC 7	0	0	0	0	0
9	0	0	0	0	0
11	0	2	0	0	2
12	1	0	0	0	1
	-----	-----	-----	-----	-----
	1	2	0	0	3
SWPP 8	0	0	0	0	0
10	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
WSCC 24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
30	0	0	0	0	0
	-----	-----	-----	-----	-----
	0	0	0	0	0
TOTAL NO	1	2	0	0	3
TOTAL %	33.33	66.66	0.00	0.00	100.00

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

EAST CENTRAL AREA RELIABILITY COORDINATION AGREEMENT (ECAR)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL -----I ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
FEB.	2	SMITH MOUNTAIN NO. 3	NEW	100.0	PUMP HYDRO	WATER	NONE	VA/AMERICAN ELECTRIC POWER CO., INC	4
	13	EAST PALESTINE	DERATE TO	0.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	21
	13	MAD RIVER NO. 1	DERATE TO	0.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	68
	13	NORWALK	DERATE TO	0.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	66
	13	NORWALK DIESEL NO. 1	DERATE TO	0.0	DIESEL	NO. 2 OIL	NONE	OH/OHIO EDISON COMPANY	67
	14	BECKJORD NO. 6	DERATE TO	415.0	FOSSIL STM	COAL	NONE	OH/CINCINNATI GAS & ELECTRIC CO	65
MARCH	13	BURGER NO. 3	DERATE TO	98.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	28
	13	BURGER NO. 4	DERATE TO	152.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	27
	13	BURGER NO. 5	DERATE TO	152.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	27
	13	EDGEWATER	DERATE TO	38.0	COMB TURB	NO. 2 OIL	NONE	OH/OHIO EDISON COMPANY	38
	13	EDGEWATER NO. 3	DERATE TO	62.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	37
	13	MAD RIVER	DERATE TO	50.0	COMB TURB	NO. 2 OIL	NONE	OH/OHIO EDISON COMPANY	26
	13	NILES CT	DERATE TO	25.0	COMB TURB	NO. 2 OIL	NONE	OH/OHIO EDISON COMPANY	27
	13	SAMMIS NO. 1	DERATE TO	180.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	27
	13	SAMMIS NO. 2	DERATE TO	180.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	27
	13	SAMMIS NO. 3	DERATE TO	180.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	34
	13	SAMMIS NO. 4	DERATE TO	180.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	34
	13	SAMMIS NO. 5	DERATE TO	300.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	35
	13	SAMMIS NO. 6	DERATE TO	600.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	36
	13	SAMMIS NO. 7	DERATE TO	600.0	FOSSIL STM	COAL	NONE	OH/OHIO EDISON COMPANY	23
	13	W. LORAIN	DERATE TO	55.0	C C/STEAM	NO. 2 OIL	NONE	OH/OHIO EDISON COMPANY	41
	13	BRUNOT ISLAND CC	DERATE TO	36.0	C C/STEAM	NO. 2 OIL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	33
	13	BRUNOT ISLAND NO. CT	DERATE TO	54.0	COMB TURB	NO. 2 OIL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	32
	13	CHESWICK NO. 1	DERATE TO	547.0	FOSSIL STM	COAL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	30
	13	ELRAMA NO. 1	UPRATE TO	97.0	FOSSIL STM	COAL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	49
	13	ELRAMA NO. 2	DERATE TO	97.0	FOSSIL STM	COAL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	27
	13	ELRAMA NO. 3	DERATE TO	171.0	FOSSIL STM	COAL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	28
	13	ELRAMA NO. 4	DERATE TO	769.0	FOSSIL STM	COAL	NONE	PA/OHIO EDISON COMPANY	19
	13	MANSFIELD NO. 1	DERATE TO	769.0	FOSSIL STM	COAL	NONE	PA/OHIO EDISON COMPANY	20
	13	MANSFIELD NO. 2	DERATE TO	39.0	FOSSIL STM	COAL	NONE	PA/OHIO EDISON COMPANY	28
	13	NEW CASTLE NO. 1	DERATE TO	40.0	FOSSIL STM	COAL	NONE	PA/OHIO EDISON COMPANY	30
	13	NEW CASTLE NO. 2	DERATE TO	97.0	FOSSIL STM	COAL	NONE	PA/OHIO EDISON COMPANY	40
	13	NEW CASTLE NO. 3	DERATE TO	96.0	FOSSIL STM	COAL	NONE	PA/OHIO EDISON COMPANY	39
	13	NEW CASTLE NO. 4	DERATE TO	325.0	FOSSIL STM	COAL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	29
	13	PHILLIPS	UPRATE TO	62.0	NUC (PWR)	THORIUM	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	50
	13	SHIPPINGPORT	UPRATE TO	6.0	DIESEL	NAT GAS	NONE	MI/ZEELAND BOARD OF PUBLIC WORKS (MI)	
	18	ZEELAND NO. 11	NEW	1.0	DIESEL	NO. 2 OIL	NONE	MI/ZEELAND BOARD OF PUBLIC WORKS (MI)	
	18	ZEELAND NO. 3	RETIRE	1.0	DIESEL	NO. 2 OIL	NONE	MI/ZEELAND BOARD OF PUBLIC WORKS (MI)	
	18	ZEELAND NO. 5	RETIRE	1.0	DIESEL	NO. 2 OIL	NONE	MI/ZEELAND BOARD OF PUBLIC WORKS (MI)	
JJNE	1	PLEASANTS NO. 1	UPRATE TO	626.0	FOSSIL STM	COAL	NONE	WV/ALLEGHENY POWER SYSTEM, INC.	3
AUG.	13	BEAVER VALLEY NO. 1	UPRATE TO	820.0	NUC (PWR)	URANIUM	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	15
SEPT.	18	CAMPBELL NO. 3	NEW	791.0	FOSSIL STM	COAL	NONE	MI/CONSUMERS POWER COMPANY (MI)	
OCT.	1	PLEASANTS NO. 2	NEW	626.0	FOSSIL STM	COAL	NONE	WV/ALLEGHENY POWER SYSTEM, INC.	
	13	MANSFIELD NO. 3	NEW	769.0	FOSSIL STM	COAL	NONE	PA/OHIO EDISON COMPANY	22
	14	PICWAY NO. 3	RETIRE	14.0	FOSSIL STM	COAL	NONE	OH/COLUMBUS & SOUTHERN OHIO ELEC CO	11
	14	PICWAY NO. 4	RETIRE	13.0	FOSSIL STM	COAL	NONE	OH/COLUMBUS & SOUTHERN OHIO ELEC CO	11
DEC.	2	MOUNTAINEER NO. 1	NEW	1300.0	FOSSIL STM	COAL	NONE	WV/AMERICAN ELECTRIC POWER CO., INC	5
	15	GREEN NO. 2	NEW	210.0	FOSSIL STM	COAL	NONE	KY/BIG PIVERS ELECTRIC CORP. (KY)	
1981									
JAN.	13	AVON LAKE NO. 6	UPRATE TO	95.0	FOSSIL STM	COAL	NONE	OH/CLEVELAND ELEC ILLUM CO, THE	43
	13	EASTLAKE NO. 2	UPRATE TO	133.0	FOSSIL STM	COAL	NONE	OH/CLEVELAND ELEC ILLUM CO, THE	44
	13	EASTLAKE NO. 3	UPRATE TO	133.0	FOSSIL STM	COAL	NONE	OH/CLEVELAND ELEC ILLUM CO, THE	45
	13	EASTLAKE NO. 4	UPRATE TO	242.0	FOSSIL STM	COAL	NONE	OH/CLEVELAND ELEC ILLUM CO, THE	46
	14	EAST BEND NO. 2	NEW	600.0	FOSSIL STM	COAL	NONE	KY/CINCINNATI GAS & ELECTRIC CO	8
	14	W. H. ZIMMER NO. 1	NEW	792.0	NUC (BWR)	URANIUM	NONE	OH/CINCINNATI GAS & ELECTRIC CO	9
	15	H. L. SPURLOCK NO. 2	NEW	484.0	FOSSIL STM	COAL	NONE	KY/EAST KENTUCKY POWER COOPERATIVE	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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EAST CENTRAL AREA RELIABILITY COORDINATION AGREEMENT (ECAR)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I- PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1981									
MAY	16	BROADWAY NO. 2	NEW	60.0	COMB TURB	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
JUNE	15	GHENT NO. 3	NEW	500.0	FOSSIL STM	COAL	NONE	KY/KENTUCKY UTILITIES COMPANY	
	15	MILL CREEK NO. 1	DERATE TO	328.0	FOSSIL STM	COAL	NONE	KY/LOUISVILLE GAS & ELECTRIC CO	32
	15	MILL CREEK NO. 4	NEW	452.0	FOSSIL STM	COAL	NONE	KY/LOUISVILLE GAS & ELECTRIC CO	
	15	PADDY'S RUN NO. 3	DERATE TO	0.0	FOSSIL STM	COAL	NAT GAS	KY/LOUISVILLE GAS & ELECTRIC CO	59
	15	PADDY'S RUN NO. 4	DERATE TO	0.0	FOSSIL STM	COAL	NAT GAS	KY/LOUISVILLE GAS & ELECTRIC CO	60
JULY	13	WEST 41ST STREET NO. 2	UPRATE TO	16.0	COMB TURB	NO. 2 OIL	NAT GAS	OH/CLEVELAND PUBL UTILS DEPT	47
SEPT.	13	BEAVER VALLEY NO. 1	UPRATE TO	850.0	NUC (PWR)	URANIUM	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	48
OCT.	2	MITCHELL NO. 1	UPRATE TO	800.0	FOSSIL STM	COAL	NONE	WV/AMERICAN ELECTRIC POWER CO., INC	42
	16	MEROM NO. 2	NEW	500.0	FOSSIL STM	COAL	NONE	IN/HOOSIER ENERGY DIV. (IND) COOP.	
DEC.	2	RACINE NO. 1	NEW	40.0	HYDRO	WATER	NONE	OH/AMERICAN ELECTRIC POWER CO., INC	
1982									
JAN.	13	CHESWICK NO. 1	UPRATE TO	557.0	FOSSIL STM	COAL	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	31
	13	SHIPPINGPORT	DERATE TO	0.0	NUC (PWR)	THORIUM	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	51
MARCH	18	ENRICO FERMI NO. 2	NEW	1093.0	NUC (BWR)	URANIUM	NONE	MI/DETROIT EDISON COMPANY, THE	
MAY	16	WHITewater VALLEY NO. 3	NEW	30.0	COMB TURB	NO. 2 OIL	NONE	IN/RICHMOND POWER & LIGHT (IN)	
JUNE	15	MILL CREEK NO. 2	DERATE TO	319.0	FOSSIL STM	COAL	NONE	KY/LOUISVILLE GAS & ELECTRIC CO	32
JULY	13	WEST 41ST STREET NO. 1	UPRATE TO	16.0	COMB TURB	NO. 2 OIL	NAT GAS	OH/CLEVELAND PUBL UTILS DEPT	46
	16	MEROM NO. 1	NEW	500.0	FOSSIL STM	COAL	NONE	IN/HOOSIER ENERGY DIV. (IND) COOP.	
SEPT.	1	MITCHELL NO. 3	DERATE TO	272.0	FOSSIL STM	COAL	NONE	PA/ALLEGHENY POWER SYSTEM, INC.	26
OCT.	14	KILLEN STATION NO. 2	NEW	600.0	FOSSIL STM	COAL	NONE	OH/DAYTON POWER & LIGHT COMPANY, THE	14
	16	GIBSON NO. 5	NEW	620.0	FOSSIL STM	COAL	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	
	16	MARBLE HILL NO. 1	NEW	1130.0	NUC (PWR)	URANIUM	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	24
DEC.	18	ZEELAND NO. 12	NEW	6.0	DIESEL	NAT GAS	NO. 2 OIL	MI/ZEELAND BOARD OF PUBLIC WORKS (MI)	25
1983									
JAN.	15	GHENT NO. 4	NEW	500.0	FOSSIL STM	COAL	NONE	KY/KENTUCKY UTILITIES COMPANY	
	18	B E MORROW NO. 1	UPRATE TO	33.0	FOSSIL STM	NO. 6 OIL	NAT GAS	MI/CONSUMERS POWER COMPANY (MI)	52
	18	WEADOCK NO. 1	UPRATE TO	37.0	FOSSIL STM	CRUDE OIL	NONE	MI/CONSUMERS POWER COMPANY (MI)	53
	18	WEADOCK NO. 2	UPRATE TO	37.0	FOSSIL STM	CRUDE OIL	NONE	MI/CONSUMERS POWER COMPANY (MI)	53
	18	WEADOCK NO. 3	UPRATE TO	57.0	FOSSIL STM	CRUDE OIL	NONE	MI/CONSUMERS POWER COMPANY (MI)	54
MAY	18	B E MORROW NO. 2	UPRATE TO	33.0	FOSSIL STM	NO. 6 OIL	NAT GAS	MI/CONSUMERS POWER COMPANY (MI)	52
JUNE	2	ROCKPORT NO. 1	NEW	1300.0	FOSSIL STM	COAL	NONE	IN/AMERICAN ELECTRIC POWER CO., INC	5
	15	PADDY'S RUN NO. 5	DERATE TO	0.0	FOSSIL STM	COAL	NAT GAS	KY/LOUISVILLE GAS & ELECTRIC CO	61
	16	R. M. SCHAFER NO. 17	NEW	340.0	FOSSIL STM	COAL	NONE	IN/NORTHERN INDIANA PUBL SERV CO	
	18	ISLAND NO. 3	NEW	50.0	FOSSIL STM	COAL	NO. 6 OIL	MI/GRAND HAVEN BOARD OF LT & PWR (MI)	
JULY	13	COLLINGWOOD NO. 3	UPRATE TO	16.0	COMB TURB	NO. 2 OIL	NAT GAS	OH/CLEVELAND PUBL UTILS DEPT	46

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EAST CENTRAL AREA RELIABILITY COORDINATION AGREEMENT (ECAR)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1984									
JAN.	14	WALNUT/HAYDEN NO. 10	NEW	195.0	COMB TURB	NO. 2 OIL	NONE	OH/COLUMBUS & SOUTHERN OHIO ELEC CO	
	16	A. B. BROWN NO. 2	NEW	250.0	FOSSIL STM	COAL	NONE	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
	16	EDWARDSPOIT NO. 6	DERATE TO	0.0	FOSSIL STM	NO. 2 OIL	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	60
	16	EDWARDSPOIT NO. 7	DERATE TO	0.0	FOSSIL STM	COAL	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	60
	16	EDWARDSPOIT NO. 8	DERATE TO	0.0	FOSSIL STM	COAL	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	63
	16	MARBLE HILL NO. 2	NEW	1130.0	NUC (PWR)	URANIUM	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	64
	16	NOBLESVILLE NO. 1	DERATE TO	0.0	FOSSIL STM	COAL	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	65
	16	NOBLESVILLE NO. 2	DERATE TO	0.0	FOSSIL STM	COAL	NONE	IN/PUBLIC SERVICE CO OF IND., INC.	60
MARCH	18	BELLE RIVER NO. 1	NEW	664.0	FOSSIL STM	COAL	NONE	MI/DETROIT EDISON COMPANY, THE	
MAY	13	PERRY NO. 1	NEW	1179.0	NUC (BWR)	URANIUM	NONE	OH/CLEVELAND ELEC ILLUM CO, THE	10
JUNE	15	PADDY'S RUN NO. 6	DERATE TO	0.0	FOSSIL STM	COAL	NONE	KY/LOUISVILLE GAS & ELECTRIC CO	62
	15	TRIMBLE COUNTY NO. 1	NEW	495.0	FOSSIL STM	COAL	NONE	KY/LOUISVILLE GAS & ELECTRIC CO	
JJLY	15	D. B. WILSON NO. 1	NEW	395.0	FOSSIL STM	COAL	NONE	KY/BIG RIVERS ELECTRIC CORP. (KY)	
SEPT.	18	MIDLAND NO. 2	NEW	783.0	NUC (PWR)	URANIUM	NONE	MI/CONSUMERS POWER COMPANY (MI)	13
OCT.	16	PETERSBURG NO. 4	NEW	515.0	FOSSIL STM	COAL	NONE	IN/INDIANAPOLIS PWR & LT CO	
DEC.	2	ROCKPORT NO. 2	NEW	1300.0	FOSSIL STM	COAL	NONE	IN/AMERICAN ELECTRIC POWER CO., INC	5
1985									
JAN.	15	J. K. SMITH NO. 1	NEW	600.0	FOSSIL STM	COAL	UNREPORTED	KY/EAST KENTUCKY POWER COOPERATIVE	
	16	OHIO RIVER NO. 1	RETIRE	6.0	FOSSIL STM	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
	16	OHIO RIVER NO. 2	RETIRE	13.0	FOSSIL STM	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
	16	OHIO RIVER NO. 3	RETIRE	13.0	FOSSIL STM	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
MARCH	18	BELLE RIVER NO. 2	NEW	664.0	FOSSIL STM	COAL	NONE	MI/DETROIT EDISON COMPANY, THE	
	18	MIDLAND NO. 1	NEW	505.0	NUC (PWR)	URANIUM	NONE	MI/CONSUMERS POWER COMPANY (MI)	13
JJNE	15	CANE RUN NO. 1	DERATE TO	0.0	FOSSIL STM	COAL	NAT GAS	KY/LOUISVILLE GAS & ELECTRIC CO	56
	15	CANE RUN NO. 2	DERATE TO	0.0	FOSSIL STM	COAL	NAT GAS	KY/LOUISVILLE GAS & ELECTRIC CO	57
	16	R.M. SCHAFER NO. 18	NEW	344.0	FOSSIL STM	COAL	NONE	IN/NORTHERN INDIANA PUBLIC SERV CO	
JJLY	2	GALLIPOLIS	NEW	40.0	HYDRO	WATER	NONE	OH/AMERICAN ELECTRIC POWER CO., INC	5
OCT.	14	EAST BEND NO. 1	NEW	600.0	FOSSIL STM	COAL	NONE	KY/CINCINNATI GAS & ELECTRIC CO	8
DEC.	14	KILLEN STATION NO. 1	NEW	600.0	FOSSIL STM	COAL	NONE	OH/DAYTON POWER & LIGHT COMPANY, THE	14
1986									
JAN.	14	MIAMI FORT NO. 3	RETIRE	51.0	FOSSIL STM	NO. 2 OIL	NONE	OH/CINCINNATI GAS & ELECTRIC CO	7
	14	MIAMI FORT NO. 4	RETIRE	51.0	FOSSIL STM	NO. 2 OIL	NONE	OH/CINCINNATI GAS & ELECTRIC CO	7
	15	D. B. WILSON NO. 2	NEW	395.0	FOSSIL STM	COAL	NONE	KY/BIG RIVERS ELECTRIC CORP. (KY)	
	15	J. K. SMITH NO. 2	NEW	600.0	FOSSIL STM	COAL	UNREPORTED	KY/EAST KENTUCKY POWER COOPERATIVE	
MARCH	1	DAVIS NO. 1	NEW	250.0	PUMP HYDRO	WATER	NONE	WV/ALLEGHENY POWER SYSTEM, INC.	2
	18	ERICKSON NO. 2	NEW	150.0	FOSSIL STM	COAL	NONE	MI/LANSING, CITY OF BOARD OF WTR & LT	
MAY	13	BEAVER VALLEY NO. 2	NEW	820.0	NUC (PWR)	URANIUM	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	16
JUNE	1	DAVIS NO. 2	NEW	250.0	PUMP HYDRO	WATER	NONE	WV/ALLEGHENY POWER SYSTEM, INC.	2
SEPT.	1	LOWER ARMSTRONG NO. 1	NEW	630.0	FOSSIL STM	COAL	NONE	PA/ALLEGHENY POWER SYSTEM, INC.	1
DEC.	2	LEWIS NO. 1	NEW	1300.0	FOSSIL STM	COAL	NONE	KY/AMERICAN ELECTRIC POWER CO., INC	6

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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EAST CENTRAL AREA RELIABILITY COORDINATION AGREEMENT (ECAR)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1986									
DEC.	16	UNSIDED	NEW	500.0	FOSSIL STM	COAL	NONE	IN/HOOSIER ENERGY DIV. (IND) COOP.	
1987									
JAN.	14	POSTON NO. 5	NEW	375.0	FOSSIL STM	COAL	NONE	OH/COLUMBUS & SOUTHERN OHIO ELEC CO	
MARCH	1	DAVIS NO. 3	NEW	250.0	PUMP HYDRO	WATER	NONE	WV/ALLEGHENY POWER SYSTEM, INC.	2
JUNE	1	DAVIS NO. 4	NEW	250.0	PUMP HYDRO	WATER	NONE	WV/ALLEGHENY POWER SYSTEM, INC.	2
	15	CANE RUN NO. 3	DERATE TO	0.0	FOSSIL STM	COAL	NAT GAS	KY/LOUISVILLE GAS & ELECTRIC CO	58
	15	UNSIDED CT	NEW	65.0	COMB TURB	NO. 2 OIL	NAT GAS	KY/LOUISVILLE GAS & ELECTRIC CO	
	16	BAILLY NO. N-1	NEW	644.0	NUC (BWR)	URANIUM	NONE	IN/NORTHERN INDIANA PUBLIC SERV CO	
AUG.	18	PALISADES NO. 1	DERATE TO	0.0	NUC (PWR)	URANIUM	NONE	MI/CONSUMERS POWER COMPANY (MI)	12
SEPT.	1	LOWER ARMSTRONG NO. 2	NEW	630.0	FOSSIL STM	COAL	NONE	PA/ALLEGHENY POWER SYSTEM, INC.	1
OCT.	15	HANCOCK CO. NO. 1	NEW	650.0	FOSSIL STM	COAL	NONE	KY/KENTUCKY UTILITIES COMPANY	
1988									
JAN.	14	WALNUT 10-4 NO. 4	NEW	65.0	COMB TURB	NO. 2 OIL	NONE	OH/COLUMBUS & SOUTHERN OHIO ELEC CO	
	16	A. B. BROWN NO. 3	NEW	500.0	FOSSIL STM	COAL	NONE	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
	16	UNSIDED FOSSIL NO. 1	NEW	500.0	FOSSIL STM	COAL	NONE	IN/NORTHERN INDIANA PUBLIC SERV CO	18
MARCH	13	BEAVER VALLEY NO. 2	UPRATE TO	850.0	NUC (PWR)	URANIUM	NONE	PA/DUQUESNE LIGHT COMPANY (PA)	64
MAY	13	PERRY NO. 2	NEW	1179.0	NUC (BWR)	URANIUM	NONE	OH/CLEVELAND ELEC ILLUM CO, THE	10
JUNE	2	LEWIS NO. 2	NEW	1300.0	FOSSIL STM	COAL	NONE	KY/AMERICAN ELECTRIC POWER CO., INC	6
	15	TRIMBLE COUNTY NO. 2	NEW	495.0	FOSSIL STM	COAL	NONE	KY/LOUISVILLE GAS & ELECTRIC CO	
SEPT.	1	LOWER ARMSTRONG NO. 3	NEW	630.0	FOSSIL STM	COAL	NONE	PA/ALLEGHENY POWER SYSTEM, INC.	1
OCT.	16	PATRIOT NO. 1	NEW	650.0	FOSSIL STM	COAL	NONE	IN/INDIANAPOLIS PWR & LT CO	17
1989									
JAN.	16	OHIO RIVER NO. 4	RETIRE	20.0	FOSSIL STM	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
	16	OHIO RIVER NO. 5	RETIRE	23.0	FOSSIL STM	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
	16	OHIO RIVER NO. 6	RETIRE	23.0	FOSSIL STM	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
	16	OHIO RIVER NO. 7	RETIRE	23.0	FOSSIL STM	NO. 2 OIL	NAT GAS	IN/SOUTHERN INDIANA GAS & ELECTRIC CO	
AUG.	18	PALISADES NO. 1	UPRATE TO	635.0	NUC (PWR)	URANIUM	NONE	MI/CONSUMERS POWER COMPANY (MI)	55
OCT.	14	EAST BEND NO. 3	NEW	600.0	FOSSIL STM	COAL	NONE	KY/CINCINNATI GAS & ELECTRIC CO	8
	16	UNSIDED	NEW	500.0	UNREPORTED	UNREPORTED	UNREPORTED	IN/PUBLIC SERVICE CO OF IND. C.	

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
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EAST CENTRAL AREA RELIABILITY COORDINATION AGREEMENT (ECAR)

- 1 SUSPENDED DUE TO FINANCIAL LIMITATIONS.
- 2 CONTINGENT ON LICENSE RECEIPT.
- 3 THIS UNIT UPATED 46 MW.
- 4 COMMERCIAL OPERATION CONTINGENT UPON TESTING AND LICENSING.
- 5 CONTINGENT ON COMPANY'S ABILITY TO FINANCE.
- 6 CAPABILITY DOES NOT REFLECT REDUCTION DUE TO FLUE-GAS DESULFIZATION EQUIPMENT.
- 7 EFFECTIVE JANUARY 1, 1986.
- 8 UNITS JOINTLY OWNED BY CINCINNATI GAS & ELECTRIC CO. (414MW) & DAYTON POWER & LIGHT CO. (186MW).
- 9 UNITS JOINTLY OWNED BY CINCINNATI GAS & ELECTRIC CO. (317MW), COLUMBUS & SOUTHERN OHIO ELECTRIC CO. (226MW) & DAYTON POWER & LIGHT CO. (249 MW).
- 10 UNITS JOINTLY OWNED BY CLEVELAND ELECTRIC ILLUMINATING CO. (366.7MW), OHIO EDISON CO. (415.0MW), DUQUESNE LIGHT CO. (162.7MW) & TOLEDO EDISON CO. (234.6MW).
- 11 UNITS 3&4 CANNOT BE OPERATED SIMULTANEOUSLY, TOTAL CAPABILITY IS 27 MW.
- 12 IN 1987 THIS 635 MW UNIT SHUTDOWN FOR 2 YEARS FOR STEAM GENERATOR REPLACEMENT.
- 13 PRESENTLY UNDER REVIEW.
- 14 UNIT JOINTLY OWNED BY CINCINNATI GAS & ELECTRIC CO. (198 MW) AND DAYTON POWER & LIGHT CO. (402 MW).
- 15 UNIT JOINTLY OWNED BY DUQUESNE LIGHT CO. (47.5 PCT) & OHIO EDISON SYSTEM (52.5 PERCENT). UNIT UPATED 10 MW.
- 16 UNIT JOINTLY OWNED BY OHIO EDISON SYSTEM (41.9 PCT), CLEVELAND ELECTRIC ILLUMINATING CO. (24.5 PCT), DUQUESNE LIGHT CO. (13.7 PCT) & TOLEDO EDISON CO. (19.9 PERCENT).
- 17 MAY BE CONSTRUCTED TO REPLACE RETIREMENTS ON SYSTEM.
- 18 TENTATIVE AND SUBJECT TO CHANGE.
- 19 UNIT JOINTLY OWNED BY OHIO EDISON SYSTEM (493.7 MW), DUQUESNE LIGHT CO. (225.3 MW), CLEVELAND ELECTRIC ILLUMINATING CO. (150.0 MW). THIS UNIT DERATED 45 MW.
- 20 UNIT JOINTLY OWNED BY OHIO EDISON SYSTEM (354.5 MW), CLEVELAND ELECTRIC ILLUMINATING CO. (219.9 MW), TOLEDO EDISON CO. (133 MW), DUQUESNE LIGHT CO. (61.5 MW). UNIT DERATED 45 MW.
- 21 THIS 12 MW UNIT SCHEDULED FOR COLD STANDBY BY FEB. 15, 1980.
- 22 UNIT JOINTLY OWNED BY OHIO EDISON SYSTEM (322.2 MW), CLEVELAND ELECTRIC ILLUMINATING CO. (188.4 MW), DUQUESNE LIGHT CO. (105.4 MW) & TOLEDO EDISON CO. (153.0 MW).

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EAST CENTRAL AREA RELIABILITY COORDINATION AGREEMENT (ECAR)

- 23 UNIT JOINTLY OWNED BY OHIO EDISON SYSTEM(412.8 MW),DUQUESNE LIGHT CO.(187.2 MW). THIS UNIT DERATED 47 MW.
- 24 UNITS JOINTLY OWNED BY PUBLIC SERVICE CO. OF INDIANA(938 MW)& WABASH VALLEY POWER ASSOCIATION (192 MW).
- 25 SIZE NOT DEFINITE.
- 26 THIS UNIT DERATE 10 MW.
- 27 THIS UNIT DERATED 5 MW.
- 28 THIS UNIT DERATED 3 MW.
- 29 THIS UNIT DERATED 50 MW.
- 30 THIS UNIT DERATED 15 MW.
- 31 THIS UNIT UPRATED 10 MW.
- 32 THIS UNIT DERATED 6 MW.
- 33 THIS UNIT DERATED 102 MW.
- 34 THIS UNIT DERATED 9 MW.
- 35 THIS UNIT DERATED 26 MW.
- 36 THIS UNIT DERATED 44 MW.
- 37 THIS UNIT DERATED 4 MW.
- 38 THIS UNIT DERATED 8 MW.
- 39 THIS UNIT DERATED 2 MW.
- 40 THIS UNIT DERATED 1 MW.
- 41 THIS UNIT DERATED 41 MW.
- 42 THIS UNIT UPRATED 140 MW.
- 43 THIS UNIT UPRATED 25 MW.
- 44 THIS UNIT UPRATED 8 MW.
- 45 THIS UNIT UPRATED 12 MW.
- 46 THIS UNIT UPRATED 4 MW.

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
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EAST CENTRAL AREA RELIABILITY COORDINATION AGREEMENT (ECAR)

- 47 THIS UNIT UPRATED 6 MW.
- 48 THIS UNIT UPRATED 30 MW.SEE FOOTNOTE 15 FOR OWNERSHIP SHARE.
- 49 THIS UNIT UPRATED 1.0 MW.
- 50 THIS UNIT UPRATED 2.0 MW.
- 51 THIS 62 MW UNIT PLACED ON INACTIVE RESERVE.
- 52 THIS 33 MW UNIT RETURNED TO ACTIVE STATUS.
- 53 THIS 37 MW UNIT RETURNED TO ACTIVE STATUS.
- 54 THIS 57 MW UNIT RETURNED TO ACTIVE STATUS.
- 55 THIS 635 MW UNIT RETURNED TO ACTIVE STATUS.
- 56 THIS 106 MW UNIT PLACED ON INACTIVE STATUS.
- 57 THIS 109 MW UNIT PLACED ON INACTIVE STATUS.
- 58 THIS 141 MW UNIT PLACED ON INACTIVE STATUS.
- 59 THIS 63 MW UNIT PLACED ON INACTIVE STATUS.
- 60 THIS 45 MW UNIT PLACED ON INACTIVE STATUS.
- 61 THIS 70 MW UNIT PLACED ON INACTIVE STATUS.
- 62 THIS 67 MW UNIT PLACED ON INACTIVE STATUS.
- 63 THIS 75 MW UNIT PLACED ON INACTIVE STATUS.
- 64 THIS UNIT UPRATED 30 MW.SEE FOOTNOTE 16 FOR OWNERSHIP SHARE.
- 65 UNIT JOINTLY OWNED BY CINCINNATI GAS & ELECTRIC CO.(161 MW) AND DAYTON POWER & LIGHT CO.(200 MW) & COLUMBUS & SOUTHERN OHIO ELECTRIC CO.(54 MW). UNIT DERATED 5 MW.
- 66 THIS 25 MW UNIT SCHEDULED FOR COLD STANDBY BY FEB. 15,1980.
- 67 THIS 1 MW UNIT SCHEDULED FOR COLD STANDBY BY FEB. 15,1980.
- 68 THIS 22 MW UNIT SCHEDULED FOR COLD STANDBY BY FEB. 15,1980.

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PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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ELECTRIC RELIABILITY COUNCIL OF TEXAS (ERCOT)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL -----I ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
JAN.	23	WICHITA FALLS NO. 6	RETIRE	13.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	WICHITA FALLS NO. 7	RETIRE	13.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
MARCH	23	COLETO CREEK NO. 1	NEW	550.0	FOSSIL STM	SUB-BITUM	NONE	TX/CEN & SW:CENTRAL POWER & LIGHT CO	
JUNE	23	F.P.P NO. 2	NEW	550.0	FOSSIL STM	COAL	NONE	TX/LOWER COLORADO RIVER AUTHORITY	1
	23	W.A.PARISH NO. 7	NEW	570.0	FOSSIL STM	COAL	NONE	TX/HOUSTON LIGHTING & POWER CO	
DEC.	23	NUECES BAY NO. 5	DERATE TO	0.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	2
1981									
JAN.	23	LEON CREEK NO. 1	RETIRE	26.0	FOSSIL STM	NAT GAS	OIL	TX/SAN ANTONIO PUBLIC SERVICE BD	
	23	LEON CREEK NO. 2	RETIRE	26.0	FOSSIL STM	NAT GAS	OIL	TX/SAN ANTONIO PUBLIC SERVICE BD	
	23	MISSION ROAD NO. 1	RETIRE	20.0	FOSSIL STM	NAT GAS	OIL	TX/SAN ANTONIO PUBLIC SERVICE BD	
	23	MISSION ROAD NO. 2	RETIRE	20.0	FOSSIL STM	NAT GAS	OIL	TX/SAN ANTONIO PUBLIC SERVICE BD	
	23	NUECES BAY NO. 5	UPRATE TO	30.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	3
	23	SANDOW NO. 4	NEW	545.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS UTIL:TEXAS POWER & LIGHT CO	
AUG.	23	COMANCHE PEAK NO. 1	NEW	1150.0	NUC (PWR)	URANIUM	NONE	TX/TEXAS UTILITIES CO	4
DEC.	23	SEAHOLM NO. 5	RETIRE	20.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/AUSTIN ELECTRIC DEPT	
	23	SEAHOLM NO. 6	RETIRE	20.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/AUSTIN ELECTRIC DEPT	
1982									
JAN.	23	HANDLEY NO. 1	RETIRE	45.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
JUNE	23	GIBBONS CREEK NO. 1	NEW	400.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS MUNICIPAL POWER AGENCY	
1983									
JAN.	23	COMANCHE PEAK NO. 2	NEW	1150.0	NUC (PWR)	URANIUM	NONE	TX/TEXAS UTILITIES CO	4
	23	MORGAN CREEK NO. 2	RETIRE	22.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
MAY	23	W.A.PARISH NO. 8	NEW	540.0	FOSSIL STM	COAL	NONE	TX/HOUSTON LIGHTING & POWER CO	
DEC.	23	MOUNTAIN CREEK NO. 2	RETIRE	33.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL:DALLAS POWER & LIGHT CO	
	23	MOUNTAIN CREEK NO. 3	RETIRE	70.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL:DALLAS POWER & LIGHT CO	
1984									
JAN.	23	MORGAN CREEK NO. 3	RETIRE	44.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	NORTH MAIN NO. 4	RETIRE	80.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	PERMIAN BASIN NO. 1	RETIRE	13.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	PERMIAN BASIN NO. 2	RETIRE	13.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
FEB.	23	SOUTH TEXAS NO. 1	NEW	1250.0	NUC (PWR)	URANIUM	NONE	TX/HOUSTON LIGHTING & POWER CO	5
DEC.	23	MOUNTAIN CREEK NO. 6	RETIRE	115.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL:DALLAS POWER & LIGHT CO	
1985									
JAN.	23	HANDLEY NO. 2	RETIRE	80.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	MORGAN CREEK NO. 4	RETIRE	70.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	

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ELECTRIC RELIABILITY COUNCIL OF TEXAS (ERCOT)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I- PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1985									
JAN.	23	PERMIAN BASIN NO. 3	RETIRE	13.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	PERMIAN BASIN NO. 4	RETIRE	13.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	UNANNOUNCED RETIRE	RETIRE	228.0	FOSSIL STM	NAT GAS	UNREPORTED	TX/HOUSTON LIGHTING & POWER CO	
FEB.	23	MARTIN LAKE NO. 4	NEW	750.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS UTILITIES CO	6
	23	TWIN OAK NO. 1	NEW	750.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS UTIL:TEXAS POWER & LIGHT CO	7
APRIL	23	LIMESTONE NO. 1	NEW	700.0	FOSSIL STM	LIGNITE	NONE	TX/HOUSTON LIGHTING & POWER CO	8
DEC.	23	DALLAS NO. 3	RETIRE	75.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL:DALLAS POWER & LIGHT CO	
	23	DALLAS NO. 9	RETIRE	70.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL:DALLAS POWER & LIGHT CO	
	23	SEAHOLM NO. 7	RETIRE	20.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/AUSTIN ELECTRIC DEPT	
	23	SEAHOLM NO. 8	RETIRE	20.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/AUSTIN ELECTRIC DEPT	
1986									
JAN.	23	EAGLE MOUNTAIN NO. 2	RETIRE	175.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
FEB.	23	SOUTH TEXAS NO. 2	NEW	1250.0	NUC (PHR)	URANIUM	NONE	TX/HOUSTON LIGHTING & POWER CO	5
	23	TWIN OAK NO. 2	NEW	750.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS UTIL:TEXAS POWER & LIGHT CO	7
APRIL	23	LIMESTONE NO. 2	NEW	700.0	FOSSIL STM	LIGNITE	NONE	TX/HOUSTON LIGHTING & POWER CO	8
DEC.	23	LA PALMA NO. 4	RETIRE	25.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	
	23	LA PALMA NO. 5	RETIRE	25.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	
	23	LAREDO NO. 1	RETIRE	35.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	
	23	LAREDO NO. 2	RETIRE	33.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	
	23	PARKDALE NO. 1	RETIRE	87.0	FOSSIL STM	NAT GAS	NO. 2 OIL	TX/TEXAS UTIL:DALLAS POWER & LIGHT CO	
	23	TRINIDAD NO. 5	RETIRE	70.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL:TEXAS POWER & LIGHT CO	
	23	VICTORIA NO. 3	RETIRE	38.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	
1987									
JAN.	23	FOREST GROVE NO. 1	NEW	750.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS UTILITIES CO	6
	23	OKLAUNION NO. 1	NEW	442.0	FOSSIL STM	COAL	NONE	TX/CEN & SW:WEST TEXAS UTILITIES CO	9
MARCH	23	UNSITED NO. 1	NEW	700.0	FOSSIL STM	LIGNITE	NONE	TX/HOUSTON LIGHTING & POWER CO	
JUNE	23	F.P.P NO. 3	NEW	400.0	FOSSIL STM	LIGNITE	NONE	TX/LOWER COLORADO RIVER AUTHORITY	10
NOV.	23	ALLENS CREEK NO. 1	NEW	1130.0	NUC (BWR)	URANIUM	NONE	TX/HOUSTON LIGHTING & POWER CO	
DEC.	23	LON HILL NO. 1	RETIRE	69.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/CEN & SW:CENTRAL POWER & LIGHT CO	
	23	PARKDALE NO. 2	RETIRE	115.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL:DALLAS POWER & LIGHT CO	
	23	RIVER CREST	RETIRE	110.0	FOSSIL STM	NAT GAS	NO. 1 OIL	TX/TEXAS UTIL:TEXAS POWER & LIGHT CO	
1988									
JAN.	23	ABILENE NO. 3	RETIRE	8.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/CEN & SW:WEST TEXAS UTILITIES CO	
	23	ABILENE NO. 4	RETIRE	18.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/CEN & SW:WEST TEXAS UTILITIES CO	
	23	CONCHO NO. 3	RETIRE	15.0	FOSSIL STM	NAT GAS	NONE	TX/CEN & SW:WEST TEXAS UTILITIES CO	
	23	GRAHAM NO. 1	RETIRE	240.0	FOSSIL STM	NAT GAS	NO. 6 OIL	TX/TEXAS UTIL:TEXAS ELEC SERVICE CO	
	23	KARNACK NO. 1	NEW	370.0	FOSSIL STM	LIGNITE	NONE	TX/CEN & SW:CENTRAL POWER & LIGHT CO	11
	23	LAKE PAULINE NO. 1	RETIRE	19.0	FOSSIL STM	NAT GAS	NONE	TX/CEN & SW:WEST TEXAS UTILITIES CO	
	23	UNASSIGNED NO. 1	NEW	750.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS UTILITIES CO	12
	23	UNASSIGNED NO. 2	NEW	600.0	FOSSIL STM	COAL	NONE	TX/TEXAS UTILITIES CO	12
	23	UNASSIGNED NO. 3	NEW	600.0	FOSSIL STM	COAL	NONE	TX/TEXAS UTILITIES CO	12
MARCH	23	UNSITED NO. 2	NEW	700.0	FOSSIL STM	LIGNITE	NONE	TX/HOUSTON LIGHTING & POWER	

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SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL -----I ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
<u>1988</u>									
JJNE	23	UNASSIGNED	NEW	400.0	FOSSIL STM	LIGNITE	NONE	TX/TEXAS MUNICIPAL POWER AGENCY	
DEC.	23	COLLIN	RETIRE	153.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL: TEXAS POWER & LIGHT CO	
	23	LAKE CREEK NO. 1	RETIRE	87.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL: TEXAS POWER & LIGHT CO	
	23	MOUNTAIN CREEK NO. 7	RETIRE	125.0	FOSSIL STM	NAT GAS	NO. 5 OIL	TX/TEXAS UTIL: DALLAS POWER & LIGHT CO	
	23	SEAHOLM NO. 9	RETIRE	40.0	FOSSIL STM	NAT GAS	NO. 5 OIL	-X/AUSTIN ELECTRIC DEPT	
<u>1989</u>									
JAN.	23	COLETO CREEK NO. 2	NEW	315.0	FOSSIL STM	SUB-BITUM	NONE	TX/CEN & SW: CENTRAL POWER & LIGHT CO	13
	23	UNASSIGNED NO. 4	NEW	600.0	FOSSIL STM	COAL	NONE	TX/TEXAS UTILITIES CO	12
	23	UNASSIGNED NO. 5	NEW	600.0	FOSSIL STM	COAL	NONE	TX/TEXAS UTILITIES CO	12
	23	UNASSIGNED NO. 6	NEW	600.0	FOSSIL STM	COAL	NONE	TX/TEXAS UTILITIES CO	12
APRIL	23	UNSITED	NEW	500.0	FOSSIL STM	LIGNITE	NONE	TX/SAN ANTONIO PUBLIC SERVICE BD	
	23	UNSITED NO. 3	NEW	700.0	FOSSIL STM	COAL	NONE	TX/HOUSTON LIGHTING & POWER CO	
DEC.	23	PARKDALE NO. 3	RETIRE	125.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL: DALLAS POWER & LIGHT CO	
	23	STRYKER CREEK NO. 1	RETIRE	175.0	FOSSIL STM	NAT GAS	OIL	TX/TEXAS UTIL: TEXAS POWER & LIGHT CO	

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ELECTRIC RELIABILITY COUNCIL OF TEXAS (ERCOT)

- 1 UNIT JOINTLY OWNED BY LOWER COLORADO RIVER AUTHORITY (275 MW) AND THE CITY OF AUSTIN (275 MW). FORMERLY SHOWN AS S. K. SEYMOUR #2.
- 2 THIS UNIT PLACED IN DEACTIVATED RESERVE SHUTDOWN STATUS. UNIT WAS 30 MW.
- 3 THIS UNIT RETURNED TO SERVICE FROM DEACTIVATED RESERVE SHUTDOWN STATUS.
- 4 UNIT JOINTLY OWNED BY TEXAS UTILITIES CO. (1035 MW) WHICH CONSISTS OF TEXAS POWER & LIGHT CO., TEXAS ELECTRIC SERVICE CO., DALLAS POWER & LIGHT CO., AND ALSO SPARED BY THE TEXAS MUNICIPAL POWER AGENCY (115 MW).
- 5 UNIT JOINTLY OWNED BY HOUSTON LIGHTING & POWER COMPANY (385 MW), CITY PUBLIC SERVICE OF SAN ANTONIO (350 MW), CENTRAL POWER & LIGHT COMPANY (315 MW), AND CITY OF AUSTIN (200 MW).
- 6 TEXAS UTILITIES CO. CONSISTS OF TEXAS POWER & LIGHT CO., TEXAS ELECTRIC SERVICE CO., AND DALLAS POWER & LIGHT CO. EMPLOYS PRIVATELY OWNED RAILROAD SYSTEM FOR MINE-MOUTH OPERATION.
- 7 UNIT JOINTLY OWNED BY TEXAS POWER & LIGHT COMPANY (563 MW) AND AN INDUSTRIAL CUSTOMER (187 MW). PRIVATELY OWNED RAILROAD SYSTEM FOR MINE-MOUTH OPERATION.
- 8 PRIVATELY OWNED RAILROAD SYSTEM FOR MINE-MOUTH OPERATION.
- 9 UNIT JOINTLY OWNED BY WEST TEXAS UTILITIES CO. (307 MW), CENTRAL POWER & LIGHT CO. (135 MW), PUBLIC SERVICE CO. OF OKLAHOMA (50 MW) (SWPP) AND SOUTHWESTERN ELECTRIC POWER CO. (148 MW) (SWPP).
- 10 FORMERLY SHOWN AS S. K. SEYMOUR #3.
- 11 UNIT JOINTLY OWNED BY CENTRAL POWER & LIGHT CO. (211 MW), WEST TEXAS UTILITIES CO. (112 MW), CITY OF BROWNSVILLE, TEXAS (50 MW), SOUTHWESTERN ELECTRIC POWER CO. (220 MW) (SWPP) AND PUBLIC SERVICE CO. OF OKLAHOMA (50 MW) (SWPP).
- 12 UNIT SIZE AS SHOWN IS BEING STUDIED AND IS SUBJECT TO CHANGE. TEXAS UTILITIES CO. CONSISTS OF TEXAS POWER & LIGHT CO., TEXAS ELECTRIC SERVICE CO., AND DALLAS POWER & LIGHT CO.
- 13 UNIT JOINTLY OWNED BY CENTRAL POWER & LIGHT CO. (250 MW), WEST TEXAS UTILITIES CO. (65 MW), SOUTHWESTERN ELECTRIC POWER CO. (275 MW) (SWPP) AND PUBLIC SERVICE CO. OF OKLAHOMA (50 MW) (SWPP).

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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MID-ATLANTIC AREA COUNCIL (MAAC)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
JAN.	5	VIENNA 5-6	RETIRE	34.0	FOSSIL STM	NO. 6 OIL	NONE	MD/DELMARVA POWER & LIGHT COMPANY	
MARCH	5	VIENNA NO. 7	RETIRE	40.0	FOSSIL STM	NO. 6 OIL	NONE	MD/DELMARVA POWER & LIGHT COMPANY	
MAY	5	DELAWARE CITY NO. 3	DERATE TO	48.0	FOSSIL STM	OIL	NONE	DE/DELMARVA POWER & LIGHT COMPANY	8
	5	EASTON NO. 3	RETIRE	0.5	DIESEL	NO. 2 OIL	NONE	MD/EASTON UTILITIES COMM., THE (MD)	
	5	GILBERT NO. 8	UPRATE TO	122.0	C C/STEAM	NO. 2 OIL	NONE	NJ/GPU: JERSEY CENTRAL POWER & LIGHT CO	7
SEPT.	5	INDIAN RIVER NO. 4	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	DE/DELMARVA POWER & LIGHT COMPANY	
OCT.	5	SALEM NO. 2	NEW	1115.0	NUC (PWR)	URANIUM	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	5
NOV.	5	BURLINGTON NO. 105	DERATE TO	0.0	UNREPORTED	UNREPORTED	UNREPORTED	NJ/PUBLIC SERVICE ELEC AND GAS CO	30
	5	BURLINGTON NO. 6	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	25
	5	EDISON NO. 2	DERATE TO	77.0	COMB TURB	KEROSENE	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	20
	5	NATIONAL PARK	DERATE TO	0.0	COMB TURB	KEROSENE	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	28
	5	SEWAREN CT NO. 6	DERATE TO	0.0	COMB TURB	KEROSENE	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	22
DEC.	5	BARBADOS NO. 6	RETIRE	20.0	COMB TURB	NO. 2 OIL	NAT GAS	PA/PHILADELPHIA ELECTRIC COMPANY	
	5	BARBADOS NO. 7	RETIRE	18.0	COMB TURB	NAT GAS	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	
	5	CHESTER NO. 6	RETIRE	88.0	FOSSIL STM	NO. 6 OIL	NAT GAS	PA/PHILADELPHIA ELECTRIC COMPANY	
1981									
MAY	5	EASTON NO. 4	RETIRE	0.6	DIESEL	NO. 2 OIL	NONE	MD/EASTON UTILITIES COMM., THE (MD)	15
	5	SCHUYLKILL NO. 3	DERATE TO	32.0	FOSSIL STM	NO. 6 OIL	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	
	5	SCHUYLKILL NO. 9	RETIRE	30.0	FOSSIL STM	NO. 6 OIL	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	
	5	WARRIOR RIDGE	NEW	1.0	HYDRIC	WATER	NONE	PA/GPU: PENNSYLVANIA ELECTRIC CO	
DEC.	5	BENNING NO. 13	RETIRE	47.0	FOSSIL STM	NO. 4 OIL	NONE	DC/POTOMAC ELECTRIC POWER CO	
	5	BUZZARD NO. 1	RETIRE	28.0	FOSSIL STM	NO. 6 OIL	NONE	DC/POTOMAC ELECTRIC POWER CO	
	5	BUZZARD NO. 2	RETIRE	30.0	FOSSIL STM	NO. 6 OIL	NONE	DC/POTOMAC ELECTRIC POWER CO	
	5	BUZZARD NO. 3	RETIRE	48.0	FOSSIL STM	NO. 6 OIL	NONE	DC/POTOMAC ELECTRIC POWER CO	
	5	BUZZARD NO. 4	RETIRE	48.0	FOSSIL STM	NO. 6 OIL	NONE	DC/POTOMAC ELECTRIC POWER CO	
	5	BUZZARD NO. 5	RETIRE	48.0	FOSSIL STM	NO. 6 OIL	NONE	DC/POTOMAC ELECTRIC POWER CO	
	5	BUZZARD NO. 6	RETIRE	48.0	FOSSIL STM	NO. 6 OIL	NONE	DC/POTOMAC ELECTRIC POWER CO	
	5	CHALK POINT NO. 4	NEW	600.0	FOSSIL STM	NO. 6 OIL	NONE	MD/POTOMAC ELECTRIC POWER CO	
1982									
JAN.	5	EDGE MOOR NO. 4	DERATE TO	164.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	DE/DELMARVA POWER & LIGHT COMPANY	12
	5	SUSQUEHANNA NO. 1	NEW	1050.0	NUC (BWR)	URANIUM	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	3
MAY	5	CHALK POINT NO. 1	DERATE TO	326.0	FOSSIL STM	BITUMINOUS	NONE	MD/POTOMAC ELECTRIC POWER CO	4
	5	CHALK POINT NO. 2	DERATE TO	326.0	FOSSIL STM	BITUMINOUS	NONE	MD/POTOMAC ELECTRIC POWER CO	4
	5	WESTPORT NO. 1	RETIRE	19.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	MD/BALTIMORE GAS & ELECTRIC CO	
	5	WESTPORT NO. 13	RETIRE	16.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	MD/BALTIMORE GAS & ELECTRIC CO	
	5	WESTPORT NO. 14	RETIRE	16.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	MD/BALTIMORE GAS & ELECTRIC CO	
JUNE	5*	EDGE MOOR NO. 3	DERATE TO	80.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	DE/DELMARVA POWER & LIGHT COMPANY	11
DEC.	5	EDDYSTONE NO. 1	DERATE TO	295.0	FOSSIL STM	BITUMINOUS	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	18
	5	EDDYSTONE NO. 2	DERATE TO	321.0	FOSSIL STM	BITUMINOUS	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	19
1983									
JAN.	5	DELAWARE CITY NO. 3	DERATE TO	37.3	FOSSIL STM	OIL	NONE	DE/DELMARVA POWER & LIGHT COMPANY	9
	5	SUSQUEHANNA NO. 2	NEW	1050.0	NUC (BWR)	URANIUM	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	3

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MID-ATLANTIC AREA COUNCIL (MAAC)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	1----- PRIMARY	FUEL ----- ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1983									
MAY	5	BURLINGTON NO. 105	UPRATE TO	32.0	UNREPORTED	UNREPORTED	UNREPORTED	NJ/PUBLIC SERVICE ELEC AND GAS CO	31
	5	EDISON NO. 2	UPRATE TO	154.0	COMB TURB	KEROSENE	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	21
	5	NATIONAL PARK	UPRATE TO	17.0	COMB TURB	KEROSENE	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	29
	5	SEWAREN CT NO. 6	UPRATE TO	62.0	COMB TURB	KEROSENE	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	23
	5	CROMBY NO. 1	DERATE TO	140.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	PA/PHILADELPHIA ELECTRIC COMPANY	16
	5	CROMBY NO. 2	DERATE TO	198.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	PA/PHILADELPHIA ELECTRIC COMPANY	17
	5	RAYSTOWN	NEW	30.0	HYDRO	WATER	NONE	PA/GPU: PENNSYLVANIA ELECTRIC CO	
1984									
JAN.	5	DELAWARE CITY NO. 3	DERATE TO	29.4	FOSSIL STM	OIL	NONE	DE/DELMARVA POWER & LIGHT COMPANY	10
MAY	5	BRANDON SHORES NO. 1	NEW	620.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	MD/BALTIMORE GAS & ELECTRIC CO	
	5	EASTON NO. 7	DERATE TO	1.9	DIESEL	NO. 2 OIL	NONE	MD/EASTON UTILITIES COMM., THE (MD)	14
JUNE	5	SEWAREN CT NO. 6	DERATE TO	61.0	COMB TURB	KEROSENE	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	24
1985									
FEB.	5	INDIAN RIVER NO. 4	DERATE TO	335.0	FOSSIL STM	BITUMINOUS	NONE	DE/DELMARVA POWER & LIGHT COMPANY	13
MAY	5	HOPE CREEK NO. 1	NEW	1056.0	NUC (BWR)	URANIUM	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	6
	5	LIMERICK NO. 1	NEW	1055.0	NUC (BWR)	URANIUM	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	
	5	RICHMOND NO. 9	RETIRE	156.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	PA/PHILADELPHIA ELECTRIC COMPANY	
JUNE	5	VARIOUS CT'S	DERATE TO	0.0	COMB TURB	UNREPORTED	UNREPORTED	NJ/PUBLIC SERVICE ELEC AND GAS CO	27
SEPT.	5	SAFE HARBOR	NEW	138.0	HYDRO	WATER	NONE	PA/BALTIMORE GAS & ELECTRIC CO	1
1986									
MAY	5	EASTON 23 & 24	NEW	12.5	DIESEL	NO. 2 OIL	NONE	MD/EASTON UTILITIES COMM., THE (MD)	
	5	FORKED RIVER NO. 1	NEW	1120.0	NUC (PWR)	URANIUM	NONE	NJ/SPU: JERSEY CENTRAL POWER & LIGHT CO	
1987									
JAN.	5	EDGE MOOR NO. 1	RETIRE	70.0	FOSSIL STM	NO. 6 OIL	NONE	DE/DELMARVA POWER & LIGHT COMPANY	
	5	WESTPORT NO. 3	RETIRE	58.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	MD/BALTIMORE GAS & ELECTRIC CO	
MAY	5	DICKERSON NO. 4	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	MD/POTOMAC ELECTRIC POWER CO	
	5	EASTON NO. 5	RETIRE	0.9	DIESEL	NO. 2 OIL	NONE	MD/EASTON UTILITIES COMM., THE (MD)	
	5	EASTON NO. 8	DERATE TO	1.3	DIESEL	NO. 2 OIL	NONE	MD/EASTON UTILITIES COMM., THE (MD)	14
	5	VIENNA NO. 9	NEW	500.0	FOSSIL STM	BITUMINOUS	NONE	MD/DELMARVA POWER & LIGHT COMPANY	2
	5	HOPE CREEK NO. 2	NEW	1066.0	NUC (BWR)	URANIUM	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	6
	5	ALLENTOWN NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	ALLENTOWN NO. 2	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	ALLENTOWN NO. 3	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	ALLENTOWN NO. 4	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	HARRISBURG NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	HARRISBURG NO. 2	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	HARRISBURG NO. 3	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	HARRISBURG NO. 4	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	HARWOOD NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	HARWOOD NO. 2	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	JENKINS NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	JENKINS NO. 2	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	LIMERICK NO. 2	NEW	1055.0	NUC (BWR)	URANIUM	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	

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MID-ATLANTIC AREA COUNCIL (MAAC)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	FUEL PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1987									
MAY	5	SEWARD NO. 7	NEW	625.0	FOSSIL STM	BITUMINOUS	NONE	PA/GPU: PENNSYLVANIA ELECTRIC CO	
	5	UNASS. OIL UNITS	RETIRE	800.0	FOSSIL STM	NO. 6 OIL	NONE	PA/PHILADELPHIA ELECTRIC COMPANY	
	5	WILLIAMSPORT NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	WILLIAMSPORT NO. 2	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
JUNE	5	KEARNEY NO. 7	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	26
	5	KEARNEY NO. 8	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	NONE	NJ/PUBLIC SERVICE ELEC AND GAS CO	26
1988									
JAN.	5	BRANDON SHORES NO. 2	NEW	620.0	FOSSIL STM	NO. 6 OIL	BITUMINOUS	MD/BALTIMORE GAS & ELECTRIC CO	
	5	DEEPWATER NO. 3	RETIRE	23.0	FOSSIL STM	NO. 6 OIL	NONE	NJ/ATLANTIC CITY ELECTRIC CO	
MAY	5	AE 250-1	NEW	250.0	FOSSIL STM	BITUMINOUS	NONE	NJ/ATLANTIC CITY ELECTRIC CO	
	5	DEEPWATER NO. 4	RETIRE	54.0	FOSSIL STM	NO. 6 OIL	NONE	NJ/ATLANTIC CITY ELECTRIC CO	
1989									
JAN.	5	EDGE MOOR NO. 2	RETIRE	70.0	FOSSIL STM	NO. 6 OIL	NONE	DE/DELMARVA POWER & LIGHT COMPANY	
MAY	5	UNSITE	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	MD/DELMARVA POWER & LIGHT COMPANY	
	5	COHO NO. 1	NEW	625.0	FOSSIL STM	BITUMINOUS	NONE	PA/GPU: PENNSYLVANIA ELECTRIC CO	
	5	FISHBACH NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	FISHBACH NO. 2	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	LOCK HAVEN NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	WEST SHORE NO. 1	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	
	5	WEST SHORE NO. 2	RETIRE	14.0	COMB TURB	NO. 2 OIL	NONE	PA/PENNSYLVANIA POWER & LIGHT CO	

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MID-ATLANTIC AREA COUNCIL (MAAC)

- 1 UNIT JOINTLY OWNED BY PENNSYLVANIA POWER & LIGHT CO.(62.6MW) & BALTIMORE GAS & ELECTRIC CO. (125.4MW).
- 2 UNIT JOINTLY OWNED BY DELMARVA POWER & LIGHT CO.OF DEL.(375MW) & ATLANTIC CITY ELECTRIC CO.(125MW).
- 3 UNIT JOINTLY OWNED BY PENNSYLVANIA POWER & LIGHT CO. (945MW) & ALLEGHENY ELECTRIC CORP.(105MW).
- 4 DERATED 4.0 MW DUE TO INSTALLATION OF COLD PRECIPITATOR.
- 5 UNIT JOINTLY OWNED BY PUBLIC SERVICE ELECTRIC & GAS CO.(474.9MW),PHILADELPHIA ELECTRIC CO.(474.9MW),ATLANTIC CITY ELECTRIC CO.(82.6MW),& UGI CORP.(82.6MW).
- 6 UNIT JOINTLY OWNED BY PUBLIC SERVICE ELECTRIC & GAS CO.(1012.7MW) & ATLANTIC CITY ELECTRIC CO.(53.3MW).
- 7 THIS UNIT UPATED 8 MW.
- 8 THIS UNIT DERATED 17.5 MW.
- 9 THIS UNIT DERATED 10.7 MW.
- 10 THIS UNIT DERATED 7.9 MW.
- 11 THIS UNIT DERATED 2.0 MW.
- 12 THIS UNIT DERATED 3.0 MW.
- 13 THIS UNIT DERATED 15.0 MW.
- 14 THIS UNIT DERATED 0.5 MW.
- 15 THIS UNIT DERATED 15.0 MW.
- 16 THIS UNIT DERATED 10.0 MW.
- 17 THIS UNIT DERATED 3.0 MW.
- 18 THIS UNIT DERATED 6.0 MW.
- 19 THIS UNIT DERATED 13.0 MW.
- 20 THIS UNIT DERATED 39.0 MW.
- 21 THIS UNIT UPATED 77.0 MW.
- 22 THIS 62.0 MW UNIT PLACED IN INACTIVE STATUS.
- 23 THIS 62.0 MW UNIT RETURNED TO ACTIVE STATUS.
- 24 THIS UNIT DERATED 1.0 MW.

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
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MID-ATLANTIC AREA COUNCIL (MAAC)

- 25 THIS 120 MW UNIT PLACED ON INACTIVE STATUS.
- 26 THIS 146 MW UNIT PLACED ON INACTIVE STATUS.
- 27 400 MW OF VARIOUS CT'S PLACED ON INACTIVE STATUS.
- 28 THIS 17 MW UNIT PLACED ON INACTIVE STATUS.
- 29 THIS 17 MW UNIT RETURNED TO ACTIVE STATUS.
- 30 THIS 32 MW UNIT PLACED ON INACTIVE STATUS.
- 31 THIS 32 MW UNIT RETURNED TO ACTIVE STATUS.

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MID-AMERICA INTERPOOL NETWORK (MAIN)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL -----I ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
JJNE	17	LAKESIDE NO. 3	DERATE TO	0.0	FOSSIL STM	NO. 2 OIL	NONE	IL/SPRINGFIELD, CITY OF (IL)	13
JJLY	19	PLEASANT PRAIRIE NO. 1	NEW	580.0	FOSSIL STM	SUB-BITUM	NONE	WI/WISCONSIN ELECTRIC POWER CO	
OCT.	17	MEXICO NO. 1-2	RETIRE	21.0	FOSSIL STM	NAT GAS	NONE	MO/UNION ELECTRIC COMPANY (MO)	
DEC.	6	LASALLE COUNTY NO. 1	NEW	1048.0	NUC (BWR)	URANIUM	NONE	IL/COMMONWEALTH EDISON COMPANY (ILL)	
1981									
JAN.	19	PORT WASHINGTON NO. 1	UPRATE TO	76.0	FOSSIL STM	BITUMINOUS	NONE	WI/WISCONSIN ELECTRIC POWER CO	10
MARCH	17	COFFEEN NO. 1	UPRATE TO	290.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	4
MAY	17	UNSITE CT NO. 1	NEW	51.0	COMB TURB	NO. 2 OIL	NONE	MO/UNION ELECTRIC COMPANY (MO)	
	17	UNSITE CT NO. 2	NEW	51.0	COMB TURB	NO. 2 OIL	NONE	MO/UNION ELECTRIC COMPANY (MO)	
JJNE	17	MEREDOSIA NO. 3	UPRATE TO	210.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	1
DEC.	6	LASALLE COUNTY NO. 2	NEW	1048.0	NUC (BWR)	URANIUM	NONE	IL/COMMONWEALTH EDISON COMPANY (ILL)	
1982									
MARCH	19	WESTON NO. 3	NEW	300.0	FOSSIL STM	SUB-BITUM	NONE	WI/WISCONSIN PUBLIC SERVICE CORP	
MAY	17	MERAMEC NO. 1-4	UPRATE TO	880.0	FOSSIL STM	BITUMINOUS	NONE	MO/UNION ELECTRIC COMPANY (MO)	9
OCT.	6	BYRON NO. 1	NEW	1120.0	NUC (PWR)	URANIUM	NONE	IL/COMMONWEALTH EDISON COMPANY (ILL)	
	17	ROCHELLE NO. 1	NEW	6.0	DIESEL	NAT GAS	NO. 2 OIL	IL/ROCHELLE MUNICIPAL UTILITIES	
	17	ROCHELLE NO. 2	NEW	6.0	DIESEL	NAT GAS	NO. 2 OIL	IL/ROCHELLE MUNICIPAL UTILITIES	
	17	CALLAWAY NO. 1	NEW	1150.0	NUC (PWR)	URANIUM	NONE	MO/UNION ELECTRIC COMPANY (MO)	
	19	SHIRAS NO. 3	NEW	40.0	FOSSIL STM	COAL	NONE	MI/MARQUETTE, CITY OF (MICH)	
DEC.	17	CLINTON NO. 1	NEW	948.0	NUC (BWR)	URANIUM	NONE	IL/ILLINOIS POWER COMPANY	7
	17	HUTSONVILLE NO. 1	RETIRE	27.5	FOSSIL STM	NO. 2 OIL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	
	17	HUTSONVILLE NO. 2	RETIRE	27.5	FOSSIL STM	NO. 2 OIL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	
	17	NEWTON NO. 2	NEW	575.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	
	19	PULLIAM NO. 1-2	RETIRE	8.0	FOSSIL STM	NO. 2 OIL	NAT GAS	WI/WISCONSIN PUBLIC SERVICE CORP	
1983									
JAN.	17	COFFEEN NO. 1	UPRATE TO	313.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	5
	17	COFFEEN NO. 2	UPRATE TO	565.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	6
MARCH	17	MEREDOSIA NO. 3	UPRATE TO	220.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	2
APRIL	19	LAKESIDE NO. 1	RETIRE	261.0	FOSSIL STM	NO. 2 OIL	NONE	WI/WISCONSIN ELECTRIC POWER CO	
	19	PLEASANT PRAIRIE NO. 2	NEW	580.0	FOSSIL STM	SUB-BITUM	NONE	WI/WISCONSIN ELECTRIC POWER CO	
JUNE	19	EDGEWATER NO. 2	RETIRE	32.0	FOSSIL STM	BITUMINOUS	NONE	WI/WISCONSIN POWER & LIGHT CO	
OCT.	6	BRAIDWOOD NO. 1	NEW	1090.0	NUC (PWR)	URANIUM	NONE	IL/COMMONWEALTH EDISON COMPANY (ILL)	
	6	BYRON NO. 2	NEW	1120.0	NUC (PWR)	URANIUM	NONE	IL/COMMONWEALTH EDISON COMPANY (ILL)	

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

MID-AMERICA INTERPOOL NETWORK (MAIN)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL ----- ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1984									
JAN.	19	BLOUNT STREET NO. 1-2	RETIRE	6.0	FOSSIL STM	NO. 2 OIL	NAT GAS	WI/MADISON GAS & ELECTRIC CO (WI)	
MARCH	19	EDGEWATER NO. 5	NEW	400.0	FOSSIL STM	SUB-BITUM	NONE	WI/WISCONSIN POWER & LIGHT CO	11
JUNE	17	LAKE SIDE NO. 1-2	RETIRE	20.0	FOSSIL STM	NO. 2 OIL	NONE	IL/SPRINGFIELD, CITY OF (IL)	
	17	LAKE SIDE NO. 4-5	RETIRE	30.0	FOSSIL STM	COAL	NONE	IL/SPRINGFIELD, CITY OF (IL)	
	17	LAKE SIDE NO. 3	RETIRE	15.0	FOSSIL STM	NO. 2 OIL	NONE	IL/SPRINGFIELD, CITY OF (IL)	
	17	UNSITE CT NO. 1	NEW	25.0	COMB TURB	NO. 2 OIL	NONE	IL/SPRINGFIELD, CITY OF (IL)	
OCT.	6	BRAIDWOOD NO. 2	NEW	1090.0	NUC (PWR)	URANIUM	NONE	IL/COMMONWEALTH EDISON COMPANY (ILL)	
1985									
JAN.	19	CCI CT NO. 1	NEW	26.0	COMB TURB	NO. 2 OIL	NONE	GZ/UPPER PENINSULA POWER CO. (MICH)	
MAY	17	NEWTON NO. 2	DERATE TO	554.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS PUBLIC SERVICE CO	3
JUNE	17	WINNETKA NO. 2	NEW	5.0	DIESEL	NO. 2 OIL	NONE	IL/WINNETKA, VILLAGE OF (IL)	
1986									
MARCH	17	DUCK CREEK NO. 2	NEW	400.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS LIGHT CO	
JUNE	17	UNSITE CT NO. 2	NEW	25.0	COMB TURB	NO. 2 OIL	NONE	IL/SPRINGFIELD, CITY OF (IL)	
	17	UNSITE NO. 1	NEW	4.0	COMB TURB	NO. 2 OIL	NONE	IL/WESTERN ILLINOIS PWR COOP, INC	
	17	UNSITE NO. 2	NEW	4.0	COMB TURB	NO. 2 OIL	NONE	IL/WESTERN ILLINOIS PWR COOP, INC	
	17	UNSITE NO. 3	NEW	4.0	COMB TURB	NO. 2 OIL	NONE	IL/WESTERN ILLINOIS PWR COOP, INC	
1987									
MAY	17	UNSITE NO. 1	NEW	450.0	UNREPORTED	COAL	NONE	IL/SOYLAND POWER COOP.	8
JUNE	17	COLUMBIA NO. 2	RETIRE	8.5	FOSSIL STM	COAL	NONE	MO/COLUMBIA WATER & LIGHT DEPT (MO)	
	17	COLUMBIA NO. 4	RETIRE	5.0	FOSSIL STM	COAL	NONE	MO/COLUMBIA WATER & LIGHT DEPT (MO)	
1988									
FEB.	19	ISHPEMING DIESEL NO. 1	RETIRE	10.0	DIESEL	NO. 2 OIL	NONE	MI/UPPER PENINSULA POWER CO. (MICH)	
APRIL	17	CALLAWAY NO. 2	NEW	1150.0	NUC (PWR)	URANIUM	NONE	MO/UNION ELECTRIC COMPANY (MO)	
JUNE	17	UNSITE CT NO. 3	NEW	25.0	COMB TURB	NO. 2 OIL	NONE	IL/SPRINGFIELD- CITY OF (IL)	
SEPT.	17	MARION NO. 5	NEW	350.0	FOSSIL STM	COAL	NONE	IL/SOUTHERN ILLINOIS POWER COOP	
OCT.	6	LANGHAM NO. 2	NEW	550.0	FOSSIL STM	UNREPORTED	UNREPORTED	IL/COMMONWEALTH EDISON COMPANY (ILL)	
1989									
JAN.	19	WELLS NO. 1	RETIRE	10.0	FOSSIL STM	BITUMINOUS	NONE	WI/WISCONSIN ELECTRIC POWER CO	
APRIL	6	LANGHAM NO. 1	NEW	550.0	FOSSIL STM	UNREPORTED	UNREPORTED	IL/COMMONWEALTH EDISON COMPANY (ILL)	
JUNE	17	R.S.WALLACE NO. 3-6	RETIRE	50.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS LIGHT CO	
	17	R.S.WALLACE NO. 7	RETIRE	55.0	FOSSIL STM	COAL	NONE	IL/CENTRAL ILLINOIS LIGHT CO	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

MID-AMERICA INTERPOOL NETWORK (MAIN)

<u>SCHED</u> <u>MONTH</u>	<u>REGION</u>	<u>UNIT NAME</u>	<u>STATUS</u>	<u>MW</u>	<u>UNIT TYPE</u>	<u>1-----1</u> <u>PRIMARY</u>	<u>FUEL</u> <u>ALTERNATE</u>	<u>STATE/SYSTEM NAME</u>	<u>NOTE</u> <u>NO.</u>
<u>1989</u>									
JJNE	19	UNKNOWN NO. 1	NEW	400.0	FOSSIL STM	SUB-BITUM	NCNE	WI/WISCONSIN PUBLIC SERVICE CORP	12
OCT.	6	UNSITED FOSSIL NO. 1	NEW	550.0	FOSSIL STM	UNREPORTED	UNREPORTED	IL/COMMONWEALTH EDISON COMPANY (ILL)	

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
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MID-AMERICA INTERPOOL NETWORK (MAIN)

- 1 UNIT UPATED 30 MW, PRESSURE LIMITATION REMOVED.
- 2 UNIT UPATED 10 MW, PARTICULATE PROBLEMS ALLEVIATED.
- 3 UNIT DERATED 11 MW, UNIT 2 SCRUBBER IN COMMERCIAL OPERATION.
- 4 UNIT UPATED 30MW AS THE RESULT OF WINTER MAINTENANCE.
- 5 UNIT UPATED 23 MW, COAL QUALITY PROBLEMS ALLEVIATED.
- 6 UNIT UPATED 85 MW, COAL QUALITY PROBLEMS ALLEVIATED.
- 7 CLINTON 1 IS JOINTLY OWNED BY ILPC (760 MW) SYPC (100 MW) AND WEIL (88 MW).
- 8 POSSIBLE JOINT OWNERSHIP, SYPC (350 MW) AND WEIL (100 MW).
- 9 THESE CAPACITY RATINGS MAY CHANGE DUE TO ENVIRONMENTAL CONSTRAINTS. THE EFFECTIVE DATES ARE TENTATIVE, BASED ON QUOTED EQUIPMENT DELIVERY DATES. UNIT UPATED BY 158 MW.
- 10 UNIT UPATED 13 MW DUE TO EQUIPMENT CHANGES. FIRM COMMITMENTS FOR OWNERSHIP HAVE NOT YET BEEN MADE.
- 11 PROPOSED OWNERSHIP IS: WIPL, 200 MW; WIEP, 200 MW.
- 12 UNIT OWNERSHIP HAS NOT BEEN DETERMINED. JOINT OWNERSHIP WITH ANOTHER WISCONSIN UTILITY IS BEING CONSIDERED.
- 13 UNIT PLACED IN DEACTIVATED SHUTDOWN STATUS.

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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MID-CONTINENT AREA RELIABILITY COORDINATION AGREEMENT (MARCA)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED M/JNTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
MARCH	20	DANBURY GT NO. 1	NEW	7.0	COMB TURB	NO. 2 OIL	NONE	WI/NORTHWESTERN WISCONSIN ELEC CO	
MAY	20	LANSING NO. 1	UPRATE TO	17.5	FOSSIL STM	COAL	NONE	IA/INTERSTATE POWER COMPANY	27
	20	SIXTH STREET NO. 2	DERATE TO	2.5	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	4
	20	CLAY BOSWELL NO. 4	NEW	500.0	FOSSIL STM	SUB-BITUM	NONE	MN/MINNESOTA POWER & LIGHT CO	
	20	GLENWOOD NO. 1-4	UPRATE TO	3.9	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	27
	20	MOBILE NO. 1-2	UPRATE TO	1.7	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	27
	20	NEW RICHLAND NO. 1-2	UPRATE TO	1.6	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	27
	20	ST. JAMES NO. 1-2	UPRATE TO	1.8	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	27
	20	VALLEY CITY NO. 1-2	RETIRE	3.0	DIESEL	NO. 2 OIL	NONE	ND/BASIN ELECTRIC PWR COOP, INC. (ND)	27
JUNE	20	FORT CALHOUN NO. 1	UPRATE TO	464.0	NUC (PWR)	URANIUM	NONE	NE/OMAHA PUBLIC POWER DISTRICT	28
NOV.	20	COAL CREEK NO. 2	NEW	506.0	FOSSIL STM	LIGNITE	NONE	ND/COOPERATIVE POWER ASSOC. (MINN)	2
DEC.	20	OTTUMWA NO. 1	NEW	675.0	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA SOUTHERN UTILITIES CO	11
1981									
APRIL	20	LARAMIE RIVER NO. 2	NEW	500.0	FOSSIL STM	SUB-BITUM	NONE	WY/BASIN ELECTRIC PWR COOP, INC. (ND)	1
MAY	20	CARROLL NO. 1	RETIRE	5.1	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA PUBLIC SERVICE CO	
	20	CARROLL NO. 2	RETIRE	5.1	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA PUBLIC SERVICE CO	
	20	EAGLE GROVE NO. 1	RETIRE	7.7	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA PUBLIC SERVICE CO	
	20	HAWKEYE NO. 1	RETIRE	7.3	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA PUBLIC SERVICE CO	
	20	HAWKEYE NO. 2	RETIRE	9.7	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA PUBLIC SERVICE CO	
	20	SIXTH STREET NO. 2	DERATE TO	2.0	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	4
	20	FORT CALHOUN NO. 1	UPRATE TO	468.0	NUC (PWR)	URANIUM	NONE	NE/OMAHA PUBLIC POWER DISTRICT	26
	20	COYOTE NO. 1	NEW	410.0	FOSSIL STM	LIGNITE	NONE	ND/OTTER TAIL POWER COMPANY (MINN)	
NOV.	20	GENTLEMAN NO. 2	NEW	600.0	FOSSIL STM	SUB-BITUM	NONE	NE/NEBRASKA PUBLIC POWER DISTRICT	
N. R.	20	HASTINGS ENERGY NO. 1	NEW	76.0	FOSSIL STM	SUB-BITUM	NONE	NE/HASTINGS UTILITIES (NEB)	
	20	PLATTE NO. 1	NEW	100.0	FOSSIL STM	SUB-BITUM	NONE	NE/GRAND ISLAND WATER & LT DEPT (NE)	
1982									
MARCH	20	K STREET NO. 3	RETIRE	19.5	FOSSIL STM	NO. 6 OIL	NONE	NE/LINCOLN, CITY OF (NE)	
APRIL	20	ANTELOPE VALLEY NO. 1	NEW	416.0	FOSSIL STM	LIGNITE	NONE	ND/BASIN ELECTRIC PWR COOP, INC. (ND)	
MAY	20	MUSCATINE NO. 9	NEW	150.0	FOSSIL STM	BITUMINOUS	NONE	IA/MUSCATINE, CITY OF (IA)	4
	20	SIXTH STREET NO. 2	DERATE TO	1.5	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	
OCT.	20	GLENWOOD NO. 1-4	RETIRE	3.9	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	
	20	NEW RICHLAND NO. 1-2	RETIRE	1.6	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	
	20	ST. JAMES NO. 1-2	RETIRE	1.8	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	
NOV.	20	BRIDGEPORT NO. 1	RETIRE	20.1	FOSSIL STM	BITUMINOUS	NO. 2 OIL	IA/IOWA SOUTHERN UTILITIES CO	
	20	BRIDGEPORT NO. 2	RETIRE	20.1	FOSSIL STM	BITUMINOUS	NO. 2 OIL	IA/IOWA SOUTHERN UTILITIES CO	
	20	BRIDGEPORT NO. 3	RETIRE	20.9	FOSSIL STM	BITUMINOUS	NO. 2 OIL	IA/IOWA SOUTHERN UTILITIES CO	
N. R.	20	PLANNING #7 NO. 7	NEW	25.0	COMB TURB	NAT GAS	NO. 2 OIL	MN/OWATONNA MUNICIPAL PUBLIC UTILITIES	
	20	WELLS #6 NO. 6	NEW	4.5	DIESEL	NO. 2 OIL	NAT GAS	MN/WELLS ELECTRIC ASSOCIATION	
1983									
APRIL	20	KINGLEY HYDRO NO. 1	NEW	38.0	HYDRO	WATER	NONE	NE/NEBRASKA PUBLIC POWER DISTRICT	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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TO THE DEPARTMENT OF ENERGYMID-CONTINENT AREA RELIABILITY COORDINATION AGREEMENT (MARCA)
(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	1----- PRIMARY	FUEL -----1 ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1983									
MAY	20	SIXTH STREET NO. 2	DERATE TO	1.0	FOSSIL STM	SUB-BITUM	NCNE	IA/IOWA ELECTRIC LT & PWR CO	4
	20	BLACK DOG NO. 2	UPRATE TO	89.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	17
	20	BLACK DOG NO. 3	UPRATE TO	114.0	FOSSIL STM	COAL	NCNE	MN/NORTHERN STATES POWER CO. (MINN)	18
	20	BLACK DOG NO. 4	UPRATE TO	177.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	19
	20	HIGH BRIDGE NO. 4	UPRATE TO	42.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	14
	20	HIGH BRIDGE NO. 5	UPRATE TO	110.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	15
	20	HIGH BRIDGE NO. 6	UPRATE TO	173.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	16
	20	RED WING NO. 1	UPRATE TO	14.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	20
	20	RED WING NO. 2	UPRATE TO	14.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	21
	20	RIVERSIDE NO. 1	UPRATE TO	23.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	27
	20	RIVERSIDE NO. 2	UPRATE TO	21.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	27
	20	RIVERSIDE NO. 6	UPRATE TO	67.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	22
	20	WILMARTH NO. 1	UPRATE TO	13.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	23
	20	WILMARTH NO. 2	UPRATE TO	13.0	FOSSIL STM	COAL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	23
JULY	20	LOUISA NO. 1	NEW	650.0	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA-ILLINOIS GAS & ELECTRIC CO	8
OCT.	20	PIPESTONE NO. 1-3	RETIRE	2.9	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	
	20	PIROQUA NO. 1-2	RETIRE	1.8	DIESEL	NO. 2 OIL	NONE	WI/NORTHERN STATES POWER CO. (MINN)	
NOV.	20	WARROAD 1, 2 & 5 NO. 1	RETIRE	2.4	DIESEL	NO. 2 OIL	NONE	MN/MINNESOTA POWER COOP, INC	
	20	ANTELOPE VALLEY NO. 2	NEW	416.0	FOSSIL STM	LIGNITE	NONE	ND/BASIN ELECTRIC PWR COOP, INC. (ND)	
N. R.	20	NEBRASKA CITY NO. 10	NEW	7.7	DIESEL	NAT GAS	OIL	NE/NEBRASKA CITY UTILITIES	
1984									
MAY	20	SIXTH STREET NO. 8	DERATE TO	29.5	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	5
DEC.	20	GUTHRIE COUNTY NO. 1	NEW	650.0	FOSSIL STM	COAL	NONE	IA/IOWA ELECTRIC LT & PWR CO	7
1985									
MAY	20	SIXTH STREET NO. 8	DERATE TO	29.0	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	5
	20	SHERBURNE COUNTY NO. 3	NEW	800.0	FOSSIL STM	SUB-BITUM	NONE	MN/NORTHERN STATES POWER CO. (MINN)	24
NOV.	20	SPIRITWOOD NO. 1	NEW	125.0	FOSSIL STM	LIGNITE	NO. 2 OIL	ND/OTTER TAIL POWER COMPANY (MINN)	
	20	DANBURY NO. CWI	NEW	6.0	C/STEAM	WASTE HEAT	NONE	WI/NORTHWESTERN WISCONSIN ELEC CO	
1986									
JAN.	20	WINSLOW NO. 2	RETIRE	12.5	FOSSIL STM	NO. 6 OIL	NONE	WI/MINNESOTA POWER & LIGHT CO	
	20	WINSLOW NO. 3	RETIRE	12.5	FOSSIL STM	NO. 6 OIL	NONE	WI/MINNESOTA POWER & LIGHT CO	
MAY	20	ALLIED NO. 1	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	IA/IOWA PUBLIC SERVICE CO	10
	20	SIXTH STREET NO. 8	DERATE TO	28.5	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	5
OCT.	20	MOBILE NO. 1-2	RETIRE	1.7	DIESEL	NO. 2 OIL	NONE	MN/NORTHERN STATES POWER CO. (MINN)	
N. R.	20	NEBRASKA CITY NO. 11	NEW	7.7	DIESEL	NAT GAS	OIL	NE/NEBRASKA CITY UTILITIES	
1987									
JAN.	20	HIBBARD NO. 1	RETIRE	25.0	FOSSIL STM	NO. 6 OIL	NONE	MN/MINNESOTA POWER & LIGHT CO	
	20	HIBBARD NO. 2	RETIRE	25.0	FOSSIL STM	NO. 6 OIL	NONE	MN/MINNESOTA POWER & LIGHT CO	
APRIL	20	ANTELOPE VALLEY NO. 3	NEW	400.0	FOSSIL STM	LIGNITE	NONE	ND/BASIN ELECTRIC PWR COOP, INC. (ND)	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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MID-CONTINENT AREA RELIABILITY COORDINATION AGREEMENT (MARCA)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1987									
MAY	20	GEORGE NEAL NO. 5	NEW	400.0	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA PUBLIC SERVICE CO	9
	20	SIXTH STREET NO. 8	DERATE TO	28.0	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	5
	20	GLENDOVE 1&2 NO. 1-2	RETIRE	6.4	FOSSIL STM	NAT GAS	NO. 2 OIL	MT/MONTANA-DAKOTA UTILITIES CO	
	20	FOSSIL NO. 3	NEW	600.0	FOSSIL STM	SUB-BITUM	NONE	NE/NEBRASKA PUBLIC POWER DISTRICT	
	20	ELLENDALE 1 & 2 NO. 1-2	RETIRE	2.6	DIESEL	NO. 2 OIL	NONE	ND/MONTANA-DAKOTA UTILITIES CO	
	20	FOSSIL NO. 1	NEW	100.0	FOSSIL STM	LIGNITE	NONE	ND/MONTANA-DAKOTA UTILITIES CO	13
	20	WILLISTON NO. 1	RETIRE	2.4	FOSSIL STM	NAT GAS	NO. 2 OIL	ND/MONTANA-DAKOTA UTILITIES CO	
	20	MOBRIDGE IC NO. 1	RETIRE	1.4	DIESEL	NO. 2 OIL	NONE	SD/MONTANA-DAKOTA UTILITIES CO	
	20	MOBRIDGE IC NO. 2	RETIRE	1.0	DIESEL	NO. 2 OIL	NONE	SD/MONTANA-DAKOTA UTILITIES CO	
	20	WISCONSIN COAL NO. 1	NEW	670.0	FOSSIL STM	SUB-BITUM	NONE	WI/NORTHERN STATES POWER CO. (MINN)	25
NOV.	20	TWIN LAKES NO. 1-4	RETIRE	8.7	DIESEL	NO. 2 OIL	NONE	MN/DAIRYLAND POWER COOPERATIVE (WI)	
	20	GENOA NO. ADI	RETIRE	12.6	FOSSIL STM	NO. 2 OIL	NONE	WI/DAIRYLAND POWER COOPERATIVE (WI)	
	20	PROJECT 87 NO. 1	NEW	650.0	FOSSIL STM	SUB-BITUM	NONE	WI/DAIRYLAND POWER COOPERATIVE (WI)	3
1988									
MAY	20	SIXTH STREET NO. 4	DERATE TO	17.5	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWP CO	6
	20	JIM FALLS NO. 4-5	NEW	30.0	HYDRO	WATER	NONE	WI/NORTHERN STATES POWER CO. (MINN)	
NOV.	20	DAKOTAS COAL NO. 1	NEW	500.0	FOSSIL STM	LIGNITE	NONE	ND/MINNESOTA POWER & LIGHT CO	12
1989									
MAY	20	SIXTH STREET NO. 4	DERATE TO	17.0	FOSSIL STM	SUB-BITUM	NONE	IA/IOWA ELECTRIC LT & PWR CO	6
	20	METRO COAL NO. 1	NEW	200.0	FOSSIL STM	SUB-BITUM	NONE	MN/NORTHERN STATES POWER CO. (MINN)	
N. R.	20	NEBRASKA CITY NO. 12	NEW	7.7	DIESEL	NAT GAS	OIL	NE/NEBRASKA CITY UTILITIES	

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
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MID-CONTINENT AREA RELIABILITY COORDINATION AGREEMENT (MARCA)

- 1 EFFECTIVE 4-1-81: UNIT JOINTLY OWNED BY BASIN ELECTRIC POWERCOOP. (174 MW), LINCOLN ELECTRIC SYSTEM (133 MW), MISSOURI BASIN MUNICIPAL POWER AGENCY (165MW) AND HEARTLAND CONSUMERS POWER DISTRICT (28 MW). EFFECTIVE 4-1-82: BASIN ELECTRIC POWER COOP., 11 MW; LINCOLN ELECTRIC SYSTEM, 200 MW; MISSOURI BASIN MUNICIPAL POWER AGENCY, 247 MW; AND HEARTLAND CONSUMERS POWER DISTRICT, 42 MW.
- 2 UNIT JOINTLY OWNED BY COOPERATIVE POWER ASSOCIATION (283 MW) AND UNITED POWER ASSOCIATION (223 MW).
- 3 UNIT JOINTLY OWNED BY DAIRYLAND POWER COOPERATIVE (520 MW); WITH 130 MW NOT YET DETERMINED.
- 4 UNIT DERATED 0.5 MW, SUMMER (1.0 MW, WINTER) IN MAY 1980; 0.5 MW, SUMMER (1.0 MW, WINTER) IN MAY 1981; 0.5 MW, SUMMER (1.0 MW, WINTER) IN MAY 1982; AND 0.5 MW, SUMMER (1.0 MW, WINTER) IN MAY 1983, TO CAPABILITY LISTED.
- 5 UNIT DERATED 0.5 MW, SUMMER (1.0 MW, WINTER) IN MAY 1984; 0.5 MW, SUMMER (1.0 MW WINTER) IN MAY 1986; AND 0.5 MW, SUMMER (1.0 MW, WINTER) IN MAY 1987, TO CAPABILITY LISTED.
- 6 UNIT DERATED 0.5 MW: SUMMER (1.0 MW, WINTER) IN MAY 1988 AND 0.5 MW, SUMMER (1.0 MW, WINTER) IN MAY 1989, TO CAPABILITY LISTED.
- 7 UNIT JOINTLY OWNED BY IOWA ELECTRIC LIGHT & POWER CO./CENTRAL IOWA POWER COOP. (400 MW), INTERSTATE POWER CO. (150 MW) AND IOWA POWER AND LIGHT CO. (100 MW).
- 8 UNIT JOINTLY OWNED BY IOWA-ILLINOIS GAS & ELECTRIC CO. (300 MW), IOWA POWER & LIGHT CO. (211 MW), IOWA PUBLIC SERVICE CO. (100 MW), EASTERN IOWA LIGHT & POWER COOP. (30 MW) AND VARIOUS MUNICIPALS (9 MW).
- 9 UNIT JOINTLY OWNED BY IOWA PUBLIC SERVICE CO. (200 MW) WITH 200 MW NOT YET DETERMINED.
- 10 UNIT JOINTLY OWNED BY IOWA PUBLIC SERVICE CO. / CORN BELT POWER COOP. (100 MW), EASTERN IOWA LIGHT & POWER COOP. (50 MW), MISSOURI BASIN MUNICIPAL POWER AGENCY (50 MW), NORTHWEST IOWA POWER COOP. (50 MW), HEARTLAND CONSUMERS POWER DISTRICT (30 MW) AND REMAINING 120 MW NOT YET DETERMINED.
- 11 UNIT JOINTLY OWNED BY IOWA SOUTHERN UTILITIES CO. (225 MW), IOWA-ILLINOIS GAS & ELECTRIC CO. (125 MW), IOWA PUBLIC SERVICE CO. (125 MW), IOWA POWER & LIGHT CO. (100 MW) AND IOWA ELECTRIC LIGHT & POWER CO. (100 MW).
- 12 UNIT JOINTLY OWNED BY MINNESOTA POWER & LIGHT CO. (275 MW), NORTHERN STATES POWER CO. (175 MW) AND OTTER TAIL POWER CO. (50 MW).
- 13 SITE NOT DETERMINED.
- 14 UNIT UPGRATED 21 MW MAY 1983 TO CAPABILITY LISTED.
- 15 UNIT UPGRATED 18 MW MAY 1983 TO CAPABILITY LISTED.
- 16 UNIT UPGRATED 8 MW MAY 1983 TO CAPABILITY LISTED.
- 17 UNIT UPGRATED 6 MW MAY 1983 TO CAPABILITY LISTED.
- 18 UNIT UPGRATED 20 MW MAY 1983 TO CAPABILITY LISTED.
- 19 UNIT UPGRATED 2 MW MAY 1983 TO CAPABILITY LISTED.
- 20 UNIT UPGRATED 1 MW MAY 1983 TO CAPABILITY LISTED.

MID-CONTINENT AREA RELIABILITY COORDINATION AGREEMENT (MARCA)

- 21 UNIT UPRATED 2 MW MAY 1983 TO CAPABILITY LISTED.
- 22 UNIT UPRATED 13 MW MAY 1983 TO CAPABILITY LISTED.
- 23 UNIT UPRATED 5 MW MAY 1983 TO CAPABILITY LISTED.
- 24 UNIT JOINTLY OWNED BY NORTHERN STATES POWER CO.(780 MW) AND LAKE SUPERIOR DISTRICT POWER CO.(20 MW).
- 25 UNIT JOINTLY OWNED BY NORTHERN STATES POWER CO.(620 MW) AND LAKE SUPERIOR DISTRICT POWER CO.(50 MW).
- 26 UNIT UPRATED 4 MW, SUMMER(7 MW, WINTER) MAY 1981 TO CAPABILITY LISTED.
- 27 UNIT RETURNED TO SERVICE FROM DEACTIVATED SHUTDOWN STATUS.
- 28 UNIT UPRATED 25 MW.

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SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I- PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
JAN.	3	DWIGHT	NEW	1.5	HYDRO			MA/NE UTIL:WESTERN MASS. ELECTRIC CO	
	3	SOMERSET 3&4	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	NONE	MA/EASTERN UTILITIES ASSOC. (MASS)	3
	4	W.BABYLON NO. 3	RETIRE	17.0	COMB TURB	NO. 2 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	
FEB.	3	BARKERS' MILL NO. 1	NEW	1.5	HYDRO			ME/CENTRAL MAINE POWER COMPANY	
	4	W.BABYLON NO. 2	DERATE TO	0.0	COMB TURB	NO. 2 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	27
MARCH	3	FARMINGDALE	RETIRE	2.9	COMB TURB	NO. 2 OIL	NONE	ME/CENTRAL MAINE POWER COMPANY	
	3	FITCHBURG NO. 7	UPRATE TO	22.1	COMB TURB	NO. 2 OIL	NONE	MA/FITCHBURG GAS & ELEC LIGHT CO	16
	3	BELLOW FALLS NO. 3	UPRATE TO	50.0	HYDRO	WATER	NONE	VT/NEW ENGLAND ELEC SYSTEM	20
	3	WILDER NO. 2	UPRATE TO	38.0	HYDRO	WATER	NONE	VT/NEW ENGLAND ELEC SYSTEM	21
MAY	3	WEST HOWARD 1,2,3	RETIRE	13.0	FOSSIL STM	NO. 6 OIL	NAT GAS	RI/NEWPORT ELECTRIC CORPORATION (RI)	
	4	BARRETT 9-12	DERATE TO	152.0	COMB TURB	NO. 2 OIL	NAT GAS	NY/LONG ISLAND LIGHTING COMPANY	32
	4	FAR ROCKAWAY NO. 4	DERATE TO	112.0	FOSSIL STM	NO. 6 OIL	NAT GAS	NY/LONG ISLAND LIGHTING COMPANY	29
	4	GLENWOOD NO. 4	DERATE TO	112.0	FOSSIL STM	NO. 6 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	29
	4	GLENWOOD NO. 5	DERATE TO	112.0	FOSSIL STM	NO. 6 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	30
	4	HOLBROOK 1-10	DERATE TO	465.0	COMB TURB	NO. 2 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	31
	4	INDIAN POINT NO. 2	UPRATE TO	858.0	NUC (PWR)	URANIUM	NONE	NY/CONSOLIDATED EDISON CO OF N Y, INC	14
	4	MITCHELL GARDS.1,2	NEW	32.0	FOSSIL STM	REFUSE	NO. 2 OIL	NY/LONG ISLAND LIGHTING COMPANY	7
	4	NORTHPORT NO. 1	DERATE TO	370.0	FOSSIL STM	NO. 6 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	28
	4	NORTHPORT NO. 2	DERATE TO	370.0	FOSSIL STM	NO. 6 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	28
	4	NORTHPORT NO. 3	DERATE TO	370.0	FOSSIL STM	NO. 6 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	28
	4	NORTHPORT NO. 4	DERATE TO	370.0	FOSSIL STM	NO. 6 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	28
	4	SHOREHAM NO. GT1	DERATE TO	46.0	COMB TURB	NO. 2 OIL	NONE	NY/LONG ISLAND LIGHTING COMPANY	33
JUNE	3	BANTAM	NEW	0.3	HYDRO			CT/NE UTIL:CONN. LIGHT & POWER CO	
NOV.	3	CHICOPEE 1-3	NEW	8.3	DIESEL	NO. 2 OIL	NONE	MA/CHICOPEE ELECTRIC LIGHT DEPT	
1981									
MAY	4	BEEBEE 1,3&6	RETIRE	35.0	FOSSIL STM	NO. 6 OIL	NONE	NY/ROCHESTER GAS & ELEC CORP (NY)	
	4	SHOREHAM NO. 1	NEW	820.0	NUC (BWR)	URANIUM	NONE	NY/LONG ISLAND LIGHTING COMPANY	
JULY	3	LAWRENCE 1,2	NEW	17.0	HYDRO	WATER	NONE	MA/NEW ENGLAND ELEC SYSTEM	
	4	ASHOKAN	NEW	5.0	HYDRO	WATER	NONE	NY/POWER AUTHORITY OF THE STATE OF NY	
	4	KENSICO	NEW	3.0	HYDRO	WATER	NONE	NY/POWER AUTHORITY OF THE STATE OF NY	
NOV.	3	STONYBROOK CC NO. CC	NEW	279.0	COMBIN CYC	NO. 2 OIL	NONE	MA/MASS. MUN WHOLESALE ELEC CO	
	3	GARVIN	NEW	6.0	HYDRO	WATER	NONE	NH/PUBLIC SERVICE CO OF NEW HAMPSHIRE	
	3	RUTLAND NO. 1	RETIRE	4.5	COMB TURB	NO. 2 OIL	NO. 6 OIL	VT/CENTRAL VERMONT PUB SERV CORP	
	3	MILTON	RETIRE	4.0	FOSSIL STM	NO. 6 OIL	NONE	VT/CENTRAL VERMONT PUB SERV CORP	
1982									
MARCH	3	BRUNSWICK/TOPSHAM NO. 1	NEW	12.0	HYDRO	WATER	NONE	ME/CENTRAL MAINE POWER COMPANY	
MAY	3	TURNER FALLS	UPRATE TO	5.6	HYDRO	WATER	NONE	MA/NE UTIL:WESTERN MASS. ELECTRIC CO	24
	3	TURNER FALLS	UPRATE TO	5.0	HYDRO	WATER	NONE	MA/NE UTIL:WESTERN MASS. ELECTRIC CO	23
	4	BOLTON FALLS	NEW	4.2	HYDRO	WATER	NONE	VT/GREEN MOUNTAIN POWER CORPORATION	
	4	HUDSON AVE 5,7,8&10 NO. H	UPRATE TO	385.0	FOSSIL STM	NO. 6 OIL	NONE	NY/CONSOLIDATED EDISON CO OF N Y, INC	15
NOV.	3	CANNON STREET NO. 7	RETIRE	16.4	FOSSIL STM	NO. 6 OIL	NAT GAS	MA/N ENG G&E:NEW BEDFORD GAS&EDISON LT	
	3	CHERRY ST NO. 5	RETIRE	0.8	DIESEL	NO. 2 OIL	NONE	MA/HUDSON LIGHT & POWER DEPT (MA)	
	3	CHERRY ST 13-15	NEW	18.0	DIESEL	NO. 2 OIL	NONE	MA/HUDSON LIGHT & POWER DEPT (MA)	
	3	MMME #1 NO. 1	NEW	75.0	FOSSIL STM	REFUSE	NONE	MA/MASS. MUN WHOLESALE ELEC CO	
	3	STONYBROOK GT NO. GT	NEW	130.0	COMB TURB	NO. 2 OIL	NONE	MA/MASS. MUN WHOLESALE ELEC CO	
	3	MURPHY	NEW	2.0	HYDRO	WATER	NONE	NH/PUBLIC SERVICE CO OF NEW HAMPSHIRE	
	3	CHACE MILLS	NEW	6.0	HYDRO	WATER	NONE	VT/BURLINGTON ELECTRIC LIGHT DEPT	2
	3	VERNON (VT. YANKEE) NO. 1	UPRATE TO	508.0	NUC (BWR)	URANIUM	NONE	VT/VERMONT YANKEE NUCLEAR POWER CO	25

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SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	FUEL PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1982									
NOV.	4	CADYVILLE (PROJ.)	NEW	7.0	HYDRO	WATER	NCNE	NY/NEW YORK STATE ELEC & GAS CORP	
	4	MECHANICVILLE	NEW	17.0	HYDRO	WATER	NCNE	NY/NEW YORK STATE ELEC & GAS CORP	
DEC.	4	HIGH FALLS	NEW	2.0	HYDRO	WATER	NCNE	NY/CENTRAL HUDSON GAS & ELEC CORP	
	4	LOVETT NO. 5	DERATE TO	198.0	FOSSIL STM	COAL	NO. 6 OIL	NY/ORANGE AND ROCKLAND UTILITIES, INC	35
1983									
JAN.	4	PASNY SOLID WASTE	NEW	175.0	FOSSIL STM	REFUSE	NCNE	NY/POWER AUTHORITY OF THE STATE OF NY	
MARCH	4	S. A. CARLSON NO. 3	RETIRE	15.0	FOSSIL STM	BITUMINOUS	NCNE	NY/JAMESTOWN BOARD OF PUB UTILITIES	
APRIL	3	SEABROOK NO. 1	NEW	1150.0	NUC (PWR)	URANIUM	NONE	NH/PUBLIC SERVICE CO OF NEW HAMPSHIRE	12
MAY	4	GRANBY	NEW	10.0	HYDRO	WATER	NONE	NY/NIAGARA MOHAWK POWER CORP	
	4	LOVETT NO. 4	DERATE TO	151.0	FOSSIL STM	COAL	NO. 6 OIL	NY/ORANGE AND ROCKLAND UTILITIES, INC	35
JUNE	3	HADLEY FALLS NO. 2	NEW	15.0	HYDRO	WATER	NONE	MA/NE UTIL: WESTERN MASS. ELECTRIC CO	
	4	HINCKLY	NEW	8.0	HYDRO	WATER	NONE	NY/POWER AUTHORITY OF THE STATE OF NY	
	4	SCHAGHTICOKE	NEW	8.0	HYDRO	WATER	NONE	NY/POWER AUTHORITY OF THE STATE OF NY	
NOV.	3	CABOT NO. 9	RETIRE	4.8	FOSSIL STM	NO. 6 OIL	NAT GAS	MA/HOLYOKE GAS & ELEC DEPT (MA)	
	3	FITCHBURG NO. 6	UPRATE TO	21.4	FOSSIL STM	NO. 6 OIL	GAS	MA/FITCHBURG GAS & ELEC LIGHT CO	26
	3	MMWE #2 NO. 2	NEW	15.0	FOSSIL STM	REFUSE	NONE	MA/MASS. MUN WHOLESALE ELEC CO	
	3	EAST GEORGIA	NEW	6.5	HYDRO	WATER	NONE	VT/CENTRAL VERMONT PUB SERV CORP	
	3	MCNEIL NO. 1	NEW	46.0	FOSSIL STM	WOOD	NONE	VT/BURLINGTON ELECTRIC LIGHT DEPT	
1984									
JAN.	4	PASNY SOLID WASTE	NEW	175.0	FOSSIL STM	REFUSE	NONE	NY/POWER AUTHORITY OF THE STATE OF NY	
MAY	4	DANSKAMMER NO. 1	RETIRE	61.0	FOSSIL STM	NO. 6 OIL	NONE	NY/CENTRAL HUDSON GAS & ELEC CORP	
	4	PEEKSKILL	NEW	40.0	FOSSIL STM	REFUSE	NONE	NY/CONSOLIDATED EDISON CO OF N.Y., INC	
	4	PORT JEFFERSON NO. 3	DERATE TO	185.0	FOSSIL STM	COAL	NO. 2 OIL	NY/LONG ISLAND LIGHTING COMPANY	34
	4	PORT JEFFERSON NO. 4	DERATE TO	185.0	FOSSIL STM	COAL	NO. 2 OIL	NY/LONG ISLAND LIGHTING COMPANY	34
NOV.	3	FITCHBURG NO. 7	DERATE TO	21.0	COMB TURB	NO. 2 OIL	NONE	MA/FITCHBURG GAS & ELEC LIGHT CO	17
	3	RUTLAND NO. 2	RETIRE	4.7	COMB TURB	NO. 2 OIL	NO. 6 OIL	VT/CENTRAL VERMONT PUB SERV CORP	
	4	ALBANY NO. 1	UPRATE TO	105.0	FOSSIL STM	COAL	NO. 6 OIL	NY/NIAGARA MOHAWK POWER CORP	4
	4	ALBANY NO. 2	UPRATE TO	105.0	FOSSIL STM	COAL	NO. 6 OIL	NY/NIAGARA MOHAWK POWER CORP	4
	4	ALBANY NO. 3	UPRATE TO	105.0	FOSSIL STM	COAL	NO. 6 OIL	NY/NIAGARA MOHAWK POWER CORP	4
	4	ALBANY NO. 4	UPRATE TO	105.0	FOSSIL STM	COAL	NO. 6 OIL	NY/NIAGARA MOHAWK POWER CORP	4
	4	DOLGEVILLE	NEW	2.5	HYDRO	WATER	NONE	NY/NIAGARA MOHAWK POWER CORP	
	4	SOMERSET	NEW	850.0	FOSSIL STM	BITUMINOUS	NONE	NY/NEW YORK STATE ELEC & GAS CORP	
	4	TRENTON	NEW	9.0	HYDRO	WATER	NONE	NY/NIAGARA MOHAWK POWER CORP	
	4	UNION	NEW	2.4	HYDRO	WATER	NONE	NY/NIAGARA MOHAWK POWER CORP	
DEC.	4	DANSKAMMER NO. 3	UPRATE TO	137.0	FOSSIL STM	NO. 6 OIL	NONE	NY/CENTRAL HUDSON GAS & ELEC CORP	22
	4	DANSKAMMER NO. 4	UPRATE TO	231.0	FOSSIL STM	NO. 6 OIL	NONE	NY/CENTRAL HUDSON GAS & ELEC CORP	4
	4	WATERSIDE NO. 5	RETIRE	38.0	FOSSIL STM	NO. 6 OIL	NAT GAS	NY/CONSOLIDATED EDISON CO OF N.Y., INC	
1985									
JAN.	4	PASNY SOLID WASTE	NEW	175.0	FOSSIL STM	REFUSE	NCNE	NY/POWER AUTHORITY OF THE STATE OF NY	
FEB.	3	SEABROOK NO. 2	NEW	1150.0	NUC (PWR)	URANIUM	NONE	NH/PUBLIC SERVICE CO OF NEW HAMPSHIRE	13
	4	NEW HYDRO	NEW	8.0	HYDRO	WATER	NONE	NY/POWER AUTHORITY OF THE STATE OF NY	10

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SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	FUEL PRIMARY ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1985								
AUG.	3	FUEL CELL	NEW	10.0	FUEL CELL	NO. 1 OIL	MA/BOSTON EDISON COMPANY	
NOV.	3	MISSISQUOI	NEW	17.2	HYDRO	WATER	VT/LYNDONVILLE ELECTRIC DEPARTMENT	37
DEC.	3	PILGRIM NO. 2	NEW	1150.0	NUC (PWR)	URANIUM	MA/BOSTON EDISON COMPANY	1
1986								
JAN.	4	PASNY SOLID WASTE	NEW	175.0	FOSSIL STM	REFUSE	NY/POWER AUTHORITY OF THE STATE OF NY	
MAY	3	MILLSTONE PT NO. 3	NEW	1150.0	NUC (PWR)	URANIUM	CT/NE UTIL:CONN. LIGHT & POWER CO	6
	4	NEW HYDRO	NEW	8.0	HYDRO	WATER	NY/POWER AUTHORITY OF THE STATE OF NY	10
	4	SHERMAN ISLAND	NEW	8.0	HYDRO	WATER	NY/NIAGARA MOHAWK POWER CORP	
NOV.	3	FITCHBURG NO. 7	DERATE TO	20.0	COMB TURB	NO. 2 OIL	MA/FITCHBURG GAS & ELEC LIGHT CO	18
	4	NINE MILE POINT NO. 2	NEW	1080.0	NUC (BWR)	URANIUM	NY/NIAGARA MOHAWK POWER CORP	9
DEC.	3	DANIELSON NO. 1	RETIRE	4.5	COMB TURB	NO. 2 OIL	CT/NE UTIL:CONN. LIGHT & POWER CO	
	3	THOMPSONVILLE NO. 1	RETIRE	3.8	COMB TURB	NO. 2 OIL	CT/NE UTIL:CONN. LIGHT & POWER CO	
	3	THOMPSONVILLE NO. 2	RETIRE	4.5	COMB TURB	NO. 2 OIL	CT/NE UTIL:CONN. LIGHT & POWER CO	
	4	HUDSON AVENUE	RETIRE	34.0	FOSSIL STM	NO. 6 OIL	NY/CONSOLIDATED EDISON CO OF N Y, INC	
	4	WATERSIDE NO. 4	RETIRE	29.0	FOSSIL STM	NO. 6 OIL	NY/CONSOLIDATED EDISON CO OF N Y, INC	
	4	WATERSIDE NO. 7	DERATE TO	0.0	FOSSIL STM	NAT GAS	NY/CONSOLIDATED EDISON CO OF N Y, INC	36
1987								
JAN.	4	PASNY SOLID WASTE	NEW	175.0	FOSSIL STM	REFUSE	NY/POWER AUTHORITY OF THE STATE OF NY	
MAY	4	DANSKAMMER NO. 2	RETIRE	65.0	FOSSIL STM	NO. 6 OIL	NY/CENTRAL HUDSON GAS & ELEC CORP	
	4	FT. EDWARD	NEW	10.0	HYDRO	WATER	NY/NIAGARA MOHAWK POWER CORP	
	4	HUDSON FALLS	NEW	60.0	HYDRO	WATER	NY/NIAGARA MOHAWK POWER CORP	
	4	PRATTSVILLE	NEW	1000.0	PUMP HYDRO	WATER	NY/POWER AUTHORITY OF THE STATE OF NY	11
	4	700 MW FOSSIL	NEW	700.0	FOSSIL STM	BITUMINOUS	NY/POWER AUTHORITY OF THE STATE OF NY	
NOV.	3	MASON NO. 1	RETIRE	21.4	FOSSIL STM	NO. 2 OIL	ME/CENTRAL MAINE POWER COMPANY	
	4	FEEDER DAM	NEW	2.0	HYDRO	WATER	NY/NIAGARA MOHAWK POWER CORP	
	4	GLENN PARK	NEW	20.0	HYDRO	WATER	NY/NIAGARA MOHAWK POWER CORP	
DEC.	3	DEVON NO. 4	RETIRE	50.0	FOSSIL STM	NO. 6 OIL	CT/NE UTIL:CONN. LIGHT & POWER CO	
	3	DEVON NO. 5	RETIRE	48.0	FOSSIL STM	NO. 6 OIL	CT/NE UTIL:CONN. LIGHT & POWER CO	
	4	GREENIDGE 1,2	RETIRE	45.0	FOSSIL STM	BITUMINOUS	NY/NEW YORK STATE ELEC & GAS CORP	
	4	WATERSIDE 6&7	RETIRE	40.0	FOSSIL STM	NO. 6 OIL	NY/CONSOLIDATED EDISON CO OF N Y, INC	
1988								
JAN.	4	PASNY SOLID WASTE	NEW	175.0	FOSSIL STM	REFUSE	NY/POWER AUTHORITY OF THE STATE OF NY	
NOV.	4	SO. GLEN FALLS	NEW	16.0	HYDRO	WATER	NY/NIAGARA MOHAWK POWER CORP	
1989								
JAN.	4	PASNY SOLID WASTE	NEW	175.0	FOSSIL STM	REFUSE	NY/POWER AUTHORITY OF THE STATE OF NY	
MAY	4	BEEBEE 8-11 NO. 8	RETIRE	68.0	FOSSIL STM	NO. 6 OIL	NY/ROCHESTER GAS & ELEC CORP (NY)	8
	4	JAMESPORT NO. 1	NEW	800.0	FOSSIL STM	BITUMINOUS	NY/LONG ISLAND LIGHTING COMPANY	
NOV.	3	SEARS ISLAND	NEW	568.0	FOSSIL STM	COAL	ME/CENTRAL MAINE POWER COMPANY	5

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NORTHEAST POWER COORDINATING COUNCIL (NPCC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I-----I PRIMARY FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1989								
NOV.	3	FITCHBURG NO. 7	UPRATE TO	22.1	COMB TURB	NO. 2 OIL NONE	MA/FITCHBURG GAS & ELEC LIGHT CO	19

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NORTHEAST POWER COORDINATING COUNCIL (NPCC)

- 1 UNIT JOINTLY OWNED BY BOSTON EDISON CO. (690MW) & OTHERS (460MW).
- 2 UNIT JOINTLY OWNED BY BURLINGTON MUN. (3.0MW) & GREEN MT. POWER CORP. (3.0MW).
- 3 THIS 61.2 MW UNIT PLACED ON INACTIVE STATUS.
- 4 UPDATED 5MW DUE TO CONVERSION FROM OIL TO COAL.
- 5 UNIT JOINTLY OWNED BY CENTRAL MAINE POWER (458.9MW) & OTHERS (109.1MW).
- 6 UNIT JOINTLY OWNED BY NORTHEAST UTILITIES (747.5MW) & OTHERS (402.5MW).
- 7 UNIT BUILT BY LONG ISLAND LIGHTING CO. IN CONJUNCTION WITH TOWN OF HEMPSTEAD, NEW YORK.
- 8 UNIT JOINTLY OWNED BY LONG ISLAND LIGHTING CO. (400MW) & NEW YORK STATE ELECTRIC & GAS CORP (400MW).
- 9 UNIT JOINTLY OWNED BY NIAGRA MOHAWK POWER CORP. (442.8MW), NEW YORK STATE ELECTRIC & GAS CORP. (194.4MW), LONG ISLAND LIGHTING CO. (194.4MW), ROCHESTER GAS & ELECTRIC CORP. (151.2MW), CENTRAL HUDSON GAS & ELECTRIC CORP. (97.2MW).
- 10 SITE HAS NOT BEEN DETERMINED.
- 11 PREFERRED SITE IN NYS ARTICLE VII PROCEEDINGS.
- 12 UNIT JOINTLY OWNED BY PUBLIC SERVICE CO. OF NEW HAMPSHIRE (575MW), UNITED ILLUMINATING CO. (230MW), NEW ENGLAND ELECTRIC SYSTEM (116.1MW), AND OTHERS (228.9MW).
- 13 UNIT JOINTLY OWNED BY PUBLIC SERVICE CO. OF NEW HAMPSHIRE (575MW) & OTHERS (575 MW) TO BE DETERMINED.
- 14 THIS UNIT UPDATED 9 MW.
- 15 THIS UNIT UPDATED 17 MW.
- 16 THIS UNIT UPDATED 0.3 MW.
- 17 THIS UNIT DERATED 1.1 MW.
- 18 THIS UNIT DERATED 1.0 MW.
- 19 THIS UNIT UPDATED 2.1 MW.
- 20 THIS UNIT UPDATED 1.0 MW.
- 21 THIS UNIT UPDATED 2.0 MW.
- 22 UPDATED 15 MW DUE TO CONVERSION FROM OIL TO COAL.
- 23 THIS 5 MW UNIT RETURNED TO ACTIVE STATUS.

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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NORTHEAST POWER COORDINATING COUNCIL (NPCC)

- 24 THIS UNIT UPRATED 0.6 MW.
- 25 THIS UNIT UPRATED 12 MW.
- 26 THIS 21.4 MW UNIT RETURNED TO ACTIVE STATUS.
- 27 THIS UNIT DERATED 17 MW.
- 28 THIS UNIT DERATED 13 MW.
- 29 THIS UNIT DERATED 2.0 MW.
- 30 THIS UNIT DERATED 1.0 MW.
- 31 THIS UNIT DERATED 20 MW.
- 32 THIS UNIT DERATED 8.0 MW.
- 33 THIS UNIT DERATED 2.0 MW.
- 34 DERATED 5 MW DUE TO CONVERSION FROM OIL TO COAL.
- 35 DERATED 6 MW DUE TO CONVERSION FROM OIL TO COAL.
- 36 THIS 44 MW UNIT PLACED ON INACTIVE STATUS, & RETIRED 12/87.
- 37 UNIT TO BE CONSTRUCTED BY VERMONT PUBLIC POWER SYSTEM AND OPERATED BY LYNDONVILLE ELECTRIC DEPARTMENT.

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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SOUTHEASTERN ELECTRIC RELIABILITY COUNCIL (SERC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
APRIL	9	TOMBIGBEE NO. 3	NEW	225.0	FOSSIL STM	COAL	NONE	AL/ALABAMA ELEC COOP, INC	
	9	WALLACE DAM NO. 3	NEW	56.0	HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	9	WALLACE DAM NO. 4	NEW	57.0	HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	9	WANSLEY CT NO. 5A	NEW	43.0	COMB TURB	NO. 2 OIL	NONE	GA/SO CO:GEORGIA POWER CO	1
MAY	12	WINYAH NO. 3	NEW	280.0	FOSSIL STM	BITUMINOUS	NONE	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	
JUNE	7	MARTIN NO. 1	NEW	775.0	FOSSIL STM	NO. 6 OIL	NONE	FL/FLORIDA POWER & LIGHT COMPANY	
	9	WALLACE DAM NO. 1	NEW	53.0	PUMP HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	9	WALLACE DAM NO. 2	NEW	53.0	PUMP HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	11	SEQUOYAH NO. 1	NEW	1148.0	NUC (PWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
JULY	12	NORTH ANNA NO. 2	NEW	898.0	NUC (PWR)	URANIUM	NONE	VA/VIRGINIA ELECTRIC & POWER CO	
AUG.	7	CRYSTAL RIVER NO. 2	UPRATE TO	455.0	FOSSIL STM	BITUMINOUS	NONE	FL/FLORIDA POWER CORPORATION	9
	12	ROXBORO NO. 3	UPRATE TO	720.0	FOSSIL STM	COAL	NONE	NC/CAROLINA POWER & LIGHT CO	6
	12	SUTTON NO. 3	UPRATE TO	420.0	FOSSIL STM	COAL	NO. 6 OIL	NC/CAROLINA POWER & LIGHT CO	8
SEPT.	9	FARLEY NO. 2	NEW	807.0	NUC (PWR)	URANIUM	NONE	AL/SO CO:ALABAMA POWER CO	
	12	ROXBORO NO. 4	NEW	720.0	FOSSIL STM	COAL	NONE	NC/CAROLINA POWER & LIGHT CO	
OCT.	7	SUWANNEE NO. 1	NEW	51.0	COMB TURB	NO. 2 OIL	NONE	FL/FLORIDA POWER CORPORATION	
	7	SUWANNEE NO. 2	NEW	51.0	COMB TURB	NO. 2 OIL	NONE	FL/FLORIDA POWER CORPORATION	
	7	SUWANNEE NO. 3	NEW	51.0	COMB TURB	NO. 2 OIL	NONE	FL/FLORIDA POWER CORPORATION	
DEC.	12	MC GUIRE NO. 1	NEW	1180.0	NUC (PWR)	URANIUM	NONE	NC/DUKE POWER COMPANY	
	12	V.C. SUMMER NO. 1	NEW	900.0	NUC (PWR)	URANIUM	NONE	SC/SOUTH CAROLINA ELECTRIC & GAS CO	7
1981									
JAN.	7	NORTHSIDE NO. 2	UPRATE TO	262.0	FOSSIL STM	NO. 6 OIL	NONE	FL/JACKSONVILLE ELECTRIC AUTHORITY	14
	7	NORTHSIDE NO. 3	UPRATE TO	499.0	FOSSIL STM	NO. 6 OIL	NONE	FL/JACKSONVILLE ELECTRIC AUTHORITY	16
FEB.	7	DEERHAVEN NO. 2	NEW	235.0	FOSSIL STM	BITUMINOUS	NONE	FL/GAINESVILLE-ALACHUA COUNTY (FLA)	
APRIL	7	BIG BEND NO. 2	UPRATE TO	362.0	FOSSIL STM	BITUMINOUS	NONE	FL/TAMPA ELECTRIC COMPANY	13
MAY	12	IVEY NO. 20	NEW	6.0	DIESEL	NAT GAS	NO. 2 OIL	FL/HOMESTEAD, CITY OF	
	12	WINYAH NO. 4	NEW	280.0	FOSSIL STM	BITUMINOUS	NONE	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	
JUNE	7	IVEY NO. 21	NEW	6.0	DIESEL	NAT GAS	NO. 2 OIL	FL/HOMESTEAD, CITY OF	
	7	MARTIN NO. 2	NEW	775.0	FOSSIL STM	NO. 6 OIL	NONE	FL/FLORIDA POWER & LIGHT COMPANY	
	7	SOLID WASTE NO. 1	NEW	20.0	FOSSIL STM	REFUSE	NONE	FL/FLORIDA POWER & LIGHT COMPANY	
	7	SOLID WASTE NO. 2	NEW	20.0	FOSSIL STM	REFUSE	NONE	FL/FLORIDA POWER & LIGHT COMPANY	
	9	FARLEY NO. 1	UPRATE TO	844.0	NUC (PWR)	URANIUM	NONE	AL/SO CO:ALABAMA POWER CO	5
	9	DANIEL NO. 2	NEW	503.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	MS/SO CO:MISSISSIPPI POWER CO	20
	11	SEQUOYAH NO. 2	NEW	1148.0	NUC (PWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
SEPT.	11	WATTS BAR NO. 1	NEW	1177.0	NUC (PWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
OCT.	7	MCINTOSH NO. 3	NEW	334.0	FOSSIL STM	BITUMINOUS	NONE	FL/LAKELAND, CTY OF (FLA)	18
1982									
FEB.	9	SCHERER NO. 1	NEW	808.0	FOSSIL STM	BITUMINOUS	NONE	GA/SO CO:GEORGIA POWER CO	1
JUNE	11	WATTS BAR NO. 2	NEW	1177.0	NUC (PWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
JULY	12	MC GUIRE NO. 2	NEW	1180.0	NUC (PWR)	URANIUM	NONE	NC/DUKE POWER COMPANY	
SEPT.	7	AIRPORT NO. 1	NEW	10.0	DIESEL	NO. 6 OIL	NONE	FL/SEBRING UTILITIES COMMISSION	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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SOUTHEASTERN ELECTRIC RELIABILITY COUNCIL (SERC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	FUEL PRIMARY ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1982								
DEC.	7	AIRPORT NO. 2	NEW	10.0	DIESEL	NO. 6 OIL	FL/SEBRING UTILITIES COMMISSION	
	7	CRYSTAL RIVER NO. 4	NEW	670.0	FOSSIL STM	BITUMINOUS	FL/FLORIDA POWER CORPORATION	
	7	LAKE HIGHLAND A	DERATE TO	0.0	COMB TURB	NO. 2 OIL	FL/ORLANDO UTILITIES COMMISSION (FLA)	15
	7	LAKE HIGHLAND B	DERATE TO	0.0	COMB TURB	NO. 2 OIL	FL/ORLANDO UTILITIES COMMISSION (FLA)	15
	7	LAKE HIGHLAND NO. 1	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	FL/ORLANDO UTILITIES COMMISSION (FLA)	10
	7	LAKE HIGHLAND NO. 2	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	FL/ORLANDO UTILITIES COMMISSION (FLA)	10
	7	LAKE HIGHLAND NO. 3	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	FL/ORLANDO UTILITIES COMMISSION (FLA)	10
	7	LK HIGHLAND IC NO. 1	DERATE TO	0.0	DIESEL	NO. 2 OIL	FL/ORLANDO UTILITIES COMMISSION (FLA)	11
1983								
MARCH	12	MAYO NO. 1	NEW	720.0	FOSSIL STM	COAL	NC/CAROLINA POWER & LIGHT CO	
APRIL	7	PARK STREET NO. 1-2	RETIRE	1.0	DIESEL	NO. 2 OIL	FL/SEBRING UTILITIES COMMISSION	
	9	HARRIS NO. 1	NEW	58.0	HYDRO	WATER	AL/SO CO:ALABAMA POWER CO	
	9	HARRIS NO. 2	NEW	59.0	HYDRO	WATER	AL/SO CO:ALABAMA POWER CO	
MAY	7	SEMINOLE NO. 1	NEW	600.0	FOSSIL STM	BITUMINOUS	FL/SEMINOLE ELEC COOP (FLA)	
JUNE	7	ST. LUCIE NO. 2	NEW	735.0	NUC (PWR)	URANIUM	FL/FLORIDA POWER & LIGHT COMPANY	21
	9	MILLER NO. 2	NEW	654.0	FOSSIL STM	BITUMINOUS	AL/SO CO:ALABAMA POWER CO	
AUG.	9	HARTWELL NO. 5	NEW	30.0	HYDRO	WATER	GA/SOUTHEASTERN POWER ADM	2
SEPT.	7	AIRPORT NO. 3	NEW	20.0	DIESEL	NO. 6 OIL	FL/SEBRING UTILITIES COMMISSION	
	11	BELLEFONTE NO. 1	NEW	1213.0	NUC (PWR)	URANIUM	AL/TENNESSEE VALLEY AUTHORITY	
OCT.	7	JACKSON BLUFF NO. 1	NEW	3.0	HYDRO	WATER	FL/TALLAHASSEE, CITY OF	
	7	JACKSON BLUFF NO. 2	NEW	3.0	HYDRO	WATER	FL/TALLAHASSEE, CITY OF	
	7	JACKSON BLUFF NO. 3	NEW	2.0	HYDRO	WATER	FL/TALLAHASSEE, CITY OF	
NOV.	12	CROSS SITE NO. 2	NEW	450.0	FOSSIL STM	BITUMINOUS	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	
DEC.	7	KING NO. 5	RETIRE	7.0	FOSSIL STM	NAT GAS	FL/FORT PIERCE UTILITIES AUTHORITY	
	9	ATKINSON NO. 1	RETIRE	55.0	FOSSIL STM	NO. 2 OIL	GA/SO CO:GEORGIA POWER CO	
	12	CATAWBA NO. 1	NEW	1145.0	NUC (PWR)	URANIUM	SC/DUKE POWER COMPANY	
	12	BATH COUNTY NO. 1	NEW	350.0	PUMP HYDRO	WATER	VA/VIRGINIA ELECTRIC & POWER CO	4
	12	BATH COUNTY NO. 2	NEW	350.0	PUMP HYDRO	WATER	VA/VIRGINIA ELECTRIC & POWER CO	4
	12	BATH COUNTY NO. 4	NEW	350.0	PUMP HYDRO	WATER	VA/VIRGINIA ELECTRIC & POWER CO	4
1984								
FEB.	9	SCHERER NO. 2	NEW	808.0	FOSSIL STM	BITUMINOUS	GA/SO CO:GEORGIA POWER CO	1
	12	BATH COUNTY NO. 3	NEW	350.0	PUMP HYDRO	WATER	VA/VIRGINIA ELECTRIC & POWER CO	4
MARCH	12	HARRIS NO. 1	NEW	900.0	NUC (PWR)	URANIUM	NC/CAROLINA POWER & LIGHT CO	
APRIL	12	BATH COUNTY NO. 5	NEW	350.0	PUMP HYDRO	WATER	VA/VIRGINIA ELECTRIC & POWER CO	4
MAY	7	S O PURDOM NO. 1	RETIRE	7.0	FOSSIL STM	NO. 6 OIL	FL/TALLAHASSEE, CITY OF	
	7	S O PURDOM NO. 2	RETIRE	7.0	FOSSIL STM	NO. 6 OIL	FL/TALLAHASSEE, CITY OF	
	7	S O PURDOM NO. 3	RETIRE	7.0	FOSSIL STM	NO. 6 OIL	FL/TALLAHASSEE, CITY OF	
	7	S O PURDOM NO. 4	RETIRE	7.0	FOSSIL STM	NO. 6 OIL	FL/TALLAHASSEE, CITY OF	
JUNE	7	CRYSTAL RIVER NO. 5	NEW	670.0	FOSSIL STM	BITUMINOUS	FL/FLORIDA POWER CORPORATION	
	11	BELLEFONTE NO. 2	NEW	1213.0	NUC (PWR)	URANIUM	AL/TENNESSEE VALLEY AUTHORITY	
	12	BATH COUNTY NO. 6	NEW	350.0	PUMP HYDRO	WATER	VA/VIRGINIA ELECTRIC & POWER CO	4
SEPT.	9	MITCHELL DAM NO. 5	NEW	97.0	HYDRO	WATER	AL/SO CO:ALABAMA POWER CO	
NOV.	7	RUSSELL, RICHARD NO. 3	NEW	75.0	HYDRO	WATER	GA/SOUTHEASTERN POWER ADM	2

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(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I- PRIMARY	FUEL ----- ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1984									
NOV.	9	VOGTLE NO. 1	NEW	1150.0	NUC (PWR)	URANIUM	NONE	GA/SO CO:GEORGIA POWER CO	1
	12	RUSSELL, RICHARD NO. 4	NEW	75.0	HYDRO	WATER	NONE	GA/SOUTHEASTERN POWER ADM	2
DEC.	9	DEMOPOLIS NO. 1	RETIRE	17.0	COMB TURB	NO. 2 OIL	NONE	AL/SO CO:ALABAMA POWER CO	
	9	DEMOPOLIS NO. 2	RETIRE	17.0	COMB TURB	NO. 2 OIL	NONE	AL/SO CO:ALABAMA POWER CO	
	9	RUSSELL, RICHARD NO. 1	NEW	75.0	HYDRO	WATER	NONE	GA/SOUTHEASTERN POWER ADM	2
	12	RUSSELL, RICHARD NO. 2	NEW	75.0	HYDRO	WATER	NONE	GA/SOUTHEASTERN POWER ADM	2
1985									
JAN.	12	ST. STEPHEN NO. 1	NEW	28.0	HYDRO	WATER	NONE	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	3
	12	ST. STEPHEN NO. 2	NEW	28.0	HYDRO	WATER	NONE	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	3
	12	ST. STEPHEN NO. 3	NEW	28.0	HYDRO	WATER	NONE	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	3
MARCH	7	BIG BEND NO. 4	NEW	417.0	FOSSIL STM	BITUMINOUS	NONE	FL/TAMPA ELECTRIC COMPANY	
	12	MAYO NO. 2	NEW	720.0	FOSSIL STM	COAL	NONE	NC/CAROLINA POWER & LIGHT CO	
MAY	7	SEMINOLE NO. 2	NEW	600.0	FOSSIL STM	BITUMINOUS	NONE	FL/SEMINOLE ELEC COOP (FLA)	
	7	UNKNOWN GT NO. 1	NEW	50.0	COMB TURB	NO. 2 OIL	NONE	FL/JACKSONVILLE ELECTRIC AUTHORITY	
	7	UNKNOWN GT NO. 2	NEW	50.0	COMB TURB	NO. 2 OIL	NONE	FL/JACKSONVILLE ELECTRIC AUTHORITY	
	7	UNKNOWN GT NO. 3	NEW	50.0	COMB TURB	NO. 2 OIL	NONE	FL/JACKSONVILLE ELECTRIC AUTHORITY	
JUNE	7	AVON PARK NO. 2	RETIRE	38.0	FOSSIL STM	NO. 6 OIL	NAT GAS	FL/FLORIDA POWER CORPORATION	
	9	FARLEY NO. 2	UPRATE TO	844.0	NUC (PWR)	URANIUM	NONE	AL/SO CO:ALABAMA POWER CO	5
	9	MILLER NO. 3	NEW	654.0	FOSSIL STM	BITUMINOUS	NONE	AL/SO CO:ALABAMA POWER CO	
JULY	12	CATAWBA NO. 2	NEW	1145.0	NUC (PWR)	URANIUM	NONE	SC/DUKE POWER COMPANY	
OCT.	12	RIVERBEND NO. 10C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	RIVERBEND NO. 11C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	RIVERBEND NO. 8C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	RIVERBEND NO. 9C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	URQUHART NO. 3G	RETIRE	15.0	COMB TURB	NO. 2 OIL	NAT GAS	SC/DUKE POWER COMPANY	
NOV.	9	BARTLETTS FERRY NO. 5	NEW	50.0	HYDRO	WATER	NONE	AL/SO CO:GEORGIA POWER CO	
	9	BARTLETTS FERRY NO. 6	NEW	50.0	HYDRO	WATER	NONE	AL/SO CO:GEORGIA POWER CO	
	11	YELLOW CREEK NO. 1	NEW	1285.0	NUC (PWR)	URANIUM	NONE	MS/TENNESSEE VALLEY AUTHORITY	
DEC.	7	COAL NO. 1	NEW	600.0	FOSSIL STM	COAL	NONE	FL/FLORIDA POWER & LIGHT COMPANY	19
	9	GASTON NO. 1A	RETIRE	16.0	COMB TURB	NO. 2 OIL	NONE	AL/SO CO:SOUTHERN ELEC GENERATING CO	
1986									
JAN.	7	SMITH NO. 1	RETIRE	7.0	FOSSIL STM	NAT GAS	NONE	FL/LAKE WORTH UTILITIES AUTHORITY	
MARCH	7	LARSEN NO. 4	RETIRE	19.0	FOSSIL STM	NAT GAS	NONE	FL/LAKELAND, CTY OF (FLA)	
	9	EATON NO. 1	RETIRE	24.0	FOSSIL STM	NO. 6 OIL	L PROPANE	MS/SO CO:MISSISSIPPI POWER CO	
	9	WATSON NO. 1A	RETIRE	31.0	COMB TURB	NO. 2 OIL	NAT GAS	MS/SO CO:MISSISSIPPI POWER CO	
MAY	7	UNKNOWN NO. 1	NEW	350.0	FOSSIL STM	BITUMINOUS	NONE	FL/LAKELAND, CTY OF (FLA)	22
	12	TURBINES GT NO. 1	NEW	200.0	COMB TURB	NO. 2 OIL	NONE	SC/SOUTH CAROLINA ELECTRIC & GAS CO	
JUNE	7	DINNER LAKE NO. 1	DERATE TO	0.0	FOSSIL STM	NO. 6 OIL	NONE	FL/SEBRING UTILITIES COMMISSION	12
	7	FOSSIL/COAL NO. 1	NEW	668.0	FOSSIL STM	BITUMINOUS	NONE	FL/FLORIDA POWER CORPORATION	17
JULY	11	HARTSVILLE NO. 1	NEW	1233.0	NUC (BWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
OCT.	12	BUCK NO. 7C	RETIRE	31.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	BUCK NO. 8C	RETIRE	31.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	BUCK NO. 9C	RETIRE	31.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	

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(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	KW	UNIT TYPE	1 PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1986									
NOV.	12	CROSS SITE NO. 1	NEW	450.0	FOSSIL STM	BITUMINOUS	NONE	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	
DEC.	9	GORGAS NO. 5	RETIRE	58.0	FOSSIL STM	BITUMINOUS	NONE	AL/SO CO:ALABAMA POWER CO	
	9	ARKWRIGHT NO. 1	RETIRE	42.0	FOSSIL STM	BITUMINOUS	NAT GAS	GA/SO CO:GEORGIA POWER CO	
	9	ATKINSON NO. 2	RETIRE	57.0	FOSSIL STM	NO. 2 OIL	NAT GAS	GA/SO CO:GEORGIA POWER CO	
1987									
FEB.	9	SCHERER NO. 3	NEW	808.0	FOSSIL STM	BITUMINOUS	NONE	GA/SO CO:GEORGIA POWER CO	1
MARCH	9	EFFINGHAM STATION NO. 2	NEW	163.0	FOSSIL STM	BITUMINOUS	NO. 5 OIL	GA/SAVANNAH ELECTRIC & POWER CO	
	9	SWEATT NO. 1A	RETIRE	31.0	COMB TURB	NO. 2 OIL	NAT GAS	MS/SO CO:MISSISSIPPI POWER CO	
	11	PHIPPS BEND NO. 1	NEW	1233.0	NUC (BWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
	12	HARRIS NO. 2	NEW	900.0	NUC (PWR)	URANIUM	NONE	NC/CAROLINA POWER & LIGHT CO	
APRIL	7	UNKNOWN	NEW	40.0	UNREPORTED	UNREPORTED	UNREPORTED	FL/TALLAHASSEE, CITY OF	
	9	ROCKY MOUNTAIN NO. 1	NEW	225.0	PUMP HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	9	ROCKY MOUNTAIN NO. 2	NEW	225.0	PUMP HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	9	ROCKY MOUNTAIN NO. 3	NEW	225.0	PUMP HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
MAY	12	UNSITE COAL NO. 1	NEW	500.0	FOSSIL STM	COAL	NONE	SC/SOUTH CAROLINA ELECTRIC & GAS CO	
JUNE	7	COAL NO. 2	NEW	600.0	FOSSIL STM	BITUMINOUS	NONE	FL/FLORIDA POWER & LIGHT COMPANY	19
	7	MARTIN COAL NO. 1	NEW	700.0	FOSSIL STM	BITUMINOUS	NONE	FL/FLORIDA POWER & LIGHT COMPANY	
	9	MILLER NO. 4	NEW	654.0	FOSSIL STM	BITUMINOUS	NONE	AL/SO CO:ALABAMA POWER CO	
JJLY	11	HARTSVILLE NO. 2	NEW	1233.0	NUC (BWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
OCT.	7	FOSSIL/COAL NO. 2	NEW	668.0	FOSSIL STM	BITUMINOUS	NONE	FL/FLORIDA POWER CORPORATION	17
	9	RIVERSIDE NO. 6	RETIRE	9.0	FOSSIL STM	NO. 6 OIL	NAT GAS	GA/SAVANNAH ELECTRIC & POWER CO	
	12	NORTH ANNA NO. 3	NEW	907.0	NUC (PWR)	URANIUM	NONE	VA/VIRGINIA ELECTRIC & POWER CO	
NOV.	9	VOGTLE NO. 2	NEW	1150.0	NUC (PWR)	URANIUM	NONE	GA/SO CO:GEORGIA POWER CO	1
DEC.	9	BARRY NO. A	RETIRE	23.0	COMB TURB	OIL	NONE	AL/SO CO:ALABAMA POWER CO	
	9	BARRY NO. B	RETIRE	22.0	COMB TURB	OIL	NONE	AL/SO CO:ALABAMA POWER CO	
	9	ARKWRIGHT NO. 2	RETIRE	44.0	FOSSIL STM	BITUMINOUS	NAT GAS	GA/SO CO:GEORGIA POWER CO	
1988									
MARCH	7	SMITH NO. 2	RETIRE	7.0	FOSSIL STM	NAT GAS	NONE	FL/LAKE WORTH UTILITIES AUTHORITY	
	9	EATON NO. 2	RETIRE	26.0	FOSSIL STM	NO. 6 OIL	L PROPANE	MS/SO CO:MISSISSIPPI POWER CO	
	9	STANDARD OIL NO. 1	RETIRE	15.0	COMB TURB	NAT GAS	NONE	MS/SO CO:MISSISSIPPI POWER CO	
	9	STANDARD OIL NO. 2	RETIRE	15.0	COMB TURB	NAT GAS	NONE	MS/SO CO:MISSISSIPPI POWER CO	
APRIL	7	UNKNOWN	NEW	40.0	UNREPORTED	UNREPORTED	UNREPORTED	FL/TALLAHASSEE, CITY OF	
	11	YELLOW CREEK NO. 2	NEW	1285.0	NUC (PWR)	URANIUM	NONE	MS/TENNESSEE VALLEY AUTHORITY	
MAY	12	DAN RIVER NO. 4C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	DAN RIVER NO. 5C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
	12	DAN RIVER NO. 6C	RETIRE	25.0	COMB TURB	NO. 2 OIL	NAT GAS	NC/DUKE POWER COMPANY	
JUNE	7	CUTLER NO. 4	UPRATE TO	67.0	FOSSIL STM	NO. 6 OIL	NAT GAS	FL/FLORIDA POWER & LIGHT COMPANY	
	7	CUTLER NO. 5	UPRATE TO	67.0	FOSSIL STM	NO. 6 OIL	NAT GAS	FL/FLORIDA POWER & LIGHT COMPANY	
	7	CUTLER NO. 6	UPRATE TO	130.0	FOSSIL STM	NO. 6 OIL	NAT GAS	FL/FLORIDA POWER & LIGHT COMPANY	
	7	MARTIN COAL NO. 4	NEW	700.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	FL/FLORIDA POWER & LIGHT COMPANY	
AJG.	12	NORTH ANNA NO. 4	NEW	907.0	NUC (PWR)	URANIUM	NONE	VA/VIRGINIA ELECTRIC & POWER CO	
OCT.	12	LEE NO. 4C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	SC/DUKE POWER COMPANY	
	12	LEE NO. 5C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	SC/DUKE POWER COMPANY	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

SOUTHEASTERN ELECTRIC RELIABILITY COUNCIL (SERC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	PRIMARY FUEL	ALTERNATE FUEL	STATE/SYSTEM NAME	NOTE NO.
1988									
OCT.	12	LEE NO. 6C	RETIRE	30.0	COMB TURB	NO. 2 OIL	NAT GAS	SC/DUKE POWER COMPANY	
NOV.	9	GOAT ROCK NO. 7	NEW	34.0	HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	9	GOAT ROCK NO. 8	NEW	33.0	HYDRO	WATER	NONE	GA/SO CO:GEORGIA POWER CO	
	12	CROSS SITE NO. 3	NEW	450.0	FOSSIL STM	BITUMINOUS	NONE	SC/SOUTH CAROLINA PUBLIC SERVICE AUTH	
DEC.	7	KING NO. 6	RETIRE	18.0	FOSSIL STM	NO. 6 OIL	NONE	FL/FORT PIERCE UTILITIES AUTHORITY	
	9	ARKWRIGHT NO. 3	RETIRE	44.0	FOSSIL STM	BITUMINOUS	NAT GAS	GA/SO CO:GEORGIA POWER CO	
	9	ARKWRIGHT NO. 4	RETIRE	43.0	FOSSIL STM	BITUMINOUS	NAT GAS	GA/SO CO:GEORGIA POWER CO	
	9	W MITCHELL NO. 1	RETIRE	20.0	FOSSIL STM	BITUMINOUS	NONE	GA/SO CO:GEORGIA POWER CO	
	9	W MITCHELL NO. 2	RETIRE	21.0	FOSSIL STM	BITUMINOUS	NONE	GA/SO CO:GEORGIA POWER CO	
1989									
FEB.	9	SCHERER NO. 4	NEW	808.0	FOSSIL STM	BITUMINOUS	NONE	GA/SO CO:GEORGIA POWER CO	1
MARCH	7	LARSEN GT NO. 1	RETIRE	11.0	COMB TURB	NO. 2 OIL	NAT GAS	FL/LAKELAND, CTY OF (FLA)	
	7	LARSEN GT NO. 2	RETIRE	11.0	COMB TURB	NO. 2 OIL	NAT GAS	FL/LAKELAND, CTY OF (FLA)	
	7	LARSEN GT NO. 3	RETIRE	11.0	COMB TURB	NO. 2 OIL	NAT GAS	FL/LAKELAND, CTY OF (FLA)	
	7	MACINNES NO. 1	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	FL/TAMPA ELECTRIC COMPANY	
	12	HARRIS NO. 4	NEW	900.0	NUC (PWR)	URANIUM	NONE	NC/CAROLINA POWER & LIGHT CO	
MAY	7	UNKNOWN NO. 2	NEW	150.0	FOSSIL STM	BITUMINOUS	NONE	FL/LAKELAND, CTY OF (FLA)	
	12	UNSITED COAL NO. 2	NEW	500.0	FOSSIL STM	COAL	NONE	SC/SOUTH CAROLINA ELECTRIC & GAS CO	
JUNE	7	AVON PARK GT NO. 1	RETIRE	28.0	COMB TURB	NO. 2 OIL	NAT GAS	FL/FLORIDA POWER CORPORATION	
	7	AVON PARK GT NO. 2	RETIRE	28.0	COMB TURB	NO. 2 OIL	NAT GAS	FL/FLORIDA POWER CORPORATION	
	7	HIGGINS NO. 1	RETIRE	25.0	COMB TURB	NO. 2 OIL	NAT GAS	FL/FLORIDA POWER CORPORATION	
	7	HIGGINS NO. 2	RETIRE	25.0	COMB TURB	NO. 2 OIL	NAT GAS	FL/FLORIDA POWER CORPORATION	
	11	HARTSVILLE NO. 3	NEW	1233.0	NUC (BWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
AUG.	11	PHIPPS BEND NO. 2	NEW	1233.0	NUC (BWR)	URANIUM	NONE	TN/TENNESSEE VALLEY AUTHORITY	
OCT.	7	FOSSIL/COAL NO. 3	NEW	660.0	FOSSIL STM	BITUMINOUS	NONE	FL/FLORIDA POWER CORPORATION	
	12	BUCK NO. 3	RETIRE	70.0	FOSSIL STM	COAL	NONE	NC/DUKE POWER COMPANY	
	12	BUCK NO. 4	RETIRE	38.0	FOSSIL STM	COAL	NONE	NC/DUKE POWER COMPANY	

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

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SOUTHEASTERN ELECTRIC RELIABILITY COUNCIL (SERC)

- 1 UNITS AT SCHERER, VOGTLE, AND WANSLEY ARE JOINTLY OWNED BY GEORGIA POWER CO., OGLETHORPE POWER CORP., MUNICIPAL ELECTRIC ASSOC. OF GEORGIA, AND DALTON UTILITIES. GULF POWER CO. WILL PARTICIPATE IN THE OWNERSHIP OF SCHERER 3 & 4.
 - 2 MARKETING OF OUTPUTS FROM RICHARD B. RUSSEL PLANT AND HARTWELL PLANT HAVE NOT BEEN FORMULATED. IN THE ERA-411 REPORT THEY ARE SHOWN DIVIDED BETWEEN THE SOUTHERN CO. AREA AND THE VIRGINIA - CAROLINAS AREA.
 - 3 OWNED BY U.S. ARMY CORPS OF ENGINEERS, DISPATCHED BY AND FOR SOUTH CAROLINA PUBLIC SERVICE AUTHORITY.
 - 4 VIRGINIA ELECTRIC AND POWER CO. WILL OWN 50% OF THE CAPACITY OF EACH 350 MW UNIT.
 - 5 THIS UNIT UPDATED 37 MW.
 - 6 THIS UNIT UPDATED 70 MW.
 - 7 UNIT JOINTLY OWNED BY SOUTH CAROLINA ELECTRIC & GAS COMPANY (600 MW) AND SOUTH CAROLINA PUBLIC SERVICE AUTHORITY (300 MW).
 - 8 THIS UNIT UPDATED 35 MW.
 - 9 THIS UNIT UPDATED 50 MW.
 - 10 30 MW UNIT DEACTIVATED.
 - 11 1 MW UNIT DEACTIVATED.
 - 12 11 MW UNIT DEACTIVATED.
 - 13 UNIT UPDATED 25 MW.
 - 14 UNIT UPDATED 62 MW.
 - 15 13 MW UNIT DEACTIVATED.
 - 16 UNIT UPDATED 42 MW.
 - 17 UNIT JOINTLY OWNED BY FLORIDA POWER CORPORATION (660 MW) AND SEBRING UTILITIES COMMISSION (8 MW).
 - 18 UNIT JOINTLY OWNED BY CITY OF LAKE LAND (200 MW) AND ORLANDO UTILITIES COMMISSION (134 MW).
 - 19 UNIT JOINTLY OWNED BY JACKSONVILLE ELECTRIC AUTHORITY (300 MW) AND FLORIDA POWER & LIGHT COMPANY (300 MW).
 - 20 GULF POWER COMPANY WILL ACQUIRE 50% OWNERSHIP OF TOTAL PLANT CAPACITY IN JUNE 1981 WHEN UNIT 2 IS PLACED IN SERVICE.
 - 21 UNIT JOINTLY OWNED BY FLORIDA POWER & LIGHT CO. (699 MW), SEMINOLE ELECTRIC COOPERATIVE (48 MW) AND ORLANDO UTILITY COMMISSION (48 MW).
- UNIT JOINTLY OWNED BY CITY OF LAKE LAND (200 MW) AND ORLANDO UTILITIES COMMISSION (150 MW).

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGYSOUTHWEST POWER POOL COORDINATION COUNCIL (SWPP)
(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL -----I ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
MARCH	8	ARKANSAS NUCLEAR ONE NO.	2NEW	912.0	NUC (PWR)	URANIUM	NONE	AR/MID SO:ARKANSAS POWER & LIGHT CO	
	22	HARRY TRUMAN NO. 1	NEW	26.0	PUMP HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
	22	HARRY TRUMAN NO. 2	NEW	26.0	PUMP HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
	22	NORTHEASTERN NO. 3	NEW	2.0	DIESEL	NO. 2 OIL	NONE	OK/CEN & SW:PUBLIC SERV CO OF OKLAHOMA	
	22	WELSH NO. 2	NEW	528.0	FOSSIL STM	SUB-BITUM	NONE	TX/CEN & SW:SOUTHWESTERN ELEC POWER CO	
APRIL	22	HARRY TRUMAN NO. 3	NEW	26.0	PUMP HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
MAY	10	BIG CAJUN 2 NO. 1	NEW	540.0	FOSSIL STM	SUB-BITUM	NONE	LA/CAJUN ELEC POWER COOP, INC. (LA)	
	21	NEARMAN NO. 1	NEW	235.0	FOSSIL STM	COAL	NONE	KS/KANSAS CITY BD OF PUB UTIL (KANS)	
	21	QUINDARO NO. Q7	RETIRE	32.0	FOSSIL STM	NAT GAS	COAL	KS/KANSAS CITY BD OF PUB UTIL (KANS)	
	21	QUINDARO NO. Q8	RETIRE	32.0	FOSSIL STM	NAT GAS	COAL	KS/KANSAS CITY BD OF PUB UTIL (KANS)	
	21	QUINDARO NO. Q9	RETIRE	32.0	FOSSIL STM	NAT GAS	COAL	KS/KANSAS CITY BD OF PUB UTIL (KANS)	
	22	HARRY TRUMAN NO. 4	NEW	26.0	PUMP HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
JUNE	8	WHITE BLUFF NO. 1	NEW	740.0	FOSSIL STM	SUB-BITUM	NONE	AR/MID SO:ARKANSAS POWER & LIGHT CO	1
	21	ABILENE NO. 1	DERATE TO	18.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	2
	21	ABILENE NO. 2	DERATE TO	18.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	3
	21	HUTCHISON CT 1-3	DERATE TO	152.0	COMB TURB	NAT GAS	NO. 2 OIL	KS/KANSAS POWER & LIGHT CO	4
	21	JEFFREY NO. 1	UPRATE TO	258.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	5
	21	JEFFREY NO. 2	NEW	680.0	FOSSIL STM	SUB-BITUM	NONE	KS/KANSAS POWER & LIGHT CO	6
	21	LAWRENCE NO. 2	UPRATE TO	34.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	7
	21	LAWRENCE 3,4,5	DERATE TO	482.0	FOSSIL STM	BITUMINOUS	NONE	KS/KANSAS POWER & LIGHT CO	8
	21	TECUMSEH 5,6,6	DERATE TO	48.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	9
	21	TECUMSEH 7 & 8	DERATE TO	187.0	FOSSIL STM	BITUMINOUS	NONE	KS/KANSAS POWER & LIGHT CO	10
	21	IATAN NO. 1	NEW	650.0	FOSSIL STM	SUB-BITUM	NONE	MO/KANSAS CITY POWER & LIGHT CO	11
	22	HARRINGTON NO. 3	NEW	338.0	FOSSIL STM	COAL	NAT GAS	TX/SOUTHWESTERN PUBLIC SERVICE CO	
SEPT.	22	NORTHEASTERN NO. 4	NEW	450.0	FOSSIL STM	SUB-BITUM	MULTIPLE	OK/CEN & SW:PUBLIC SERV CO OF OKLAHOMA	
OCT.	22	BELLE ISLE 1-4	RETIRE	44.0	FOSSIL STM	NAT GAS	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
	22	SOONER NO. 2	NEW	515.0	FOSSIL STM	SUB-BITUM	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
1981									
JAN.	10	BIG CAJUN 2 NO. 2	NEW	540.0	FOSSIL STM	SUB-BITUM	NONE	LA/CAJUN ELEC POWER COOP, INC. (LA)	
MARCH	21	ATWOOD 1,2	RETIRE	1.0	DIESEL	NO. 2 OIL	NONE	KS/CENTRAL KANSAS POWER CO, INC	
	21	HOXIE 1,2,3,4	RETIRE	2.0	DIESEL	NAT GAS	NONE	KS/CENTRAL KANSAS POWER CO, INC	
	21	WAKEENEY 1,2	RETIRE	1.2	DIESEL	NAT GAS	NONE	KS/CENTRAL KANSAS POWER CO, INC	
MAY	8	WHITE BLUFF NO. 2	NEW	740.0	FOSSIL STM	SUB-BITUM	NONE	AR/MID SO:ARKANSAS POWER & LIGHT CO	1
JUNE	21	EMPIRE ENERGY CT. NO. 2	NEW	90.0	COMB TURB	NO. 2 OIL	NONE	MO/EMPIRE DISTRICT ELECTRIC CO (MO)	
JULY	10	NELSON NO. 7	NEW	90.0	COMB TURB	NAT GAS	NONE	LA/GULF STATES UTILITIES COMPANY	
OCT.	21	MISSOURI CITY NO. 1	UPRATE TO	21.0	FOSSIL STM	BITUMINOUS	NO. 2 OIL	MO/INDEPENDENCE, CITY OF (MO)	12
	21	MISSOURI CITY NO. 2	UPRATE TO	21.0	FOSSIL STM	BITUMINOUS	NO. 2 OIL	MO/INDEPENDENCE, CITY OF (MO)	12
	22	OSAGE 1 & 2	RETIRE	41.0	FOSSIL STM	NAT GAS	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
	22	SHATTUCK 3,4,5	RETIRE	1.0	DIESEL	KEROSENE	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
	22	WOODWARD 1,2,3,4,7	RETIRE	3.2	DIESEL	KEROSENE	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
DEC.	8	COUCH NO. 1	RETIRE	25.0	FOSSIL STM	NAT GAS	NO. 6 OIL	AR/MID SO:ARKANSAS POWER & LIGHT CO	
	8	LYNCH NO. 1	RETIRE	28.0	FOSSIL STM	NAT GAS	NO. 2 OIL	AR/MID SO:ARKANSAS POWER & LIGHT CO	
	21	COFFEYVILLE SG 1-3	DERATE TO	33.0	FOSSIL STM	NAT GAS	NO. 5 OIL	KS/COFFEYVILLE MUN LT DEPT	13
N. R.	22	GRDA NO. 1	NEW	490.0	FOSSIL STM	COAL	NONE	OK/GRAND RIVER DAM AUTHORITY (OK)	

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

SOUTHWEST POWER POOL COORDINATION COUNCIL (SWPP)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	PRIMARY FUEL	ALTERNATE FUEL	STATE/SYSTEM NAME	NOTE NO.
1982									
JAN.	10	RODEMACHER NO. 2	NEW	530.0	FOSSIL STM	BITUMINOUS	MULTIPLE	LA/CENTRAL LOUISIANA ELEC CO, INC	14
	21	SIBLEY NO. 3	UPRATE TO	345.0	FOSSIL STM	BITUMINOUS	NONE	MO/MISSOURI PUBLIC SERVICE CO	15
FEB.	8	WATERFORD NO. 3	NEW	1110.0	NUC (PWR)	URANIUM	NONE	LA/MID SO:LOUISIANA POWER & LIGHT CO	
MARCH	10	NELSON NO. 6	NEW	540.0	FOSSIL STM	SUB-BITUM	NONE	LA/GULF STATES UTILITIES COMPANY	
	10	WILLOW GLEN NO. 6	NEW	90.0	COMB TURB	NAT GAS	NONE	LA/GULF STATES UTILITIES COMPANY	
	22	HUGO NO. 1	NEW	376.0	FOSSIL STM	SUB-BITUM	NONE	OK/WESTERN FARMERS ELEC COOP (OK)	
	22	WELSH NO. 3	NEW	528.0	FOSSIL STM	SUB-BITUM	NONE	TX/CEN & SW:SOUTHWESTERN ELEC POWER CO	
APRIL	8	GRAND GULF NO. 1	NEW	1250.0	NUC (BWR)	URANIUM	NONE	MS/MID SO:MISSISSIPPI POWER & LIGHT CO	16
JUNE	21	GRAND AVE 5 & 7	DERATE TO	0.0	FOSSIL STM	BITUMINOUS	NONE	MO/KANSAS CITY POWER & LIGHT CO	17
	21	THOMAS HILL NO. 3	NEW	630.0	FOSSIL STM	BITUMINOUS	NONE	MO/ASSOCIATED ELECTRIC COOP, INC. (MO)	
	22	TOLK NO. 1	NEW	508.0	FOSSIL STM	COAL	NONE	TX/SOUTHWESTERN PUBLIC SERVICE CO	
JULY	22	CLARENCE CANNON NO. 1	NEW	31.0	PUMP HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
	22	CLARENCE CANNON NO. 2	NEW	27.0	HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
OCT.	22	HORSESHOE LAKE 1-5	RETIRE	88.0	FOSSIL STM	NAT GAS	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
DEC.	8	MARKET ST. NO. 11	RETIRE	31.0	FOSSIL STM	NAT GAS	NO. 5 OIL	LA/MID SO:NEW ORLEANS PUBLIC SERVICE	
	8	MARKET ST. NO. 12	RETIRE	31.0	FOSSIL STM	NAT GAS	NO. 5 OIL	LA/MID SO:NEW ORLEANS PUBLIC SERVICE	
	8	MARKET ST. NO. 13	RETIRE	27.0	FOSSIL STM	NAT GAS	NO. 5 OIL	LA/MID SO:NEW ORLEANS PUBLIC SERVICE	
	22	ROSWELL NO. 5	RETIRE	6.0	FOSSIL STM	NAT GAS	NO. 2 OIL	NM/SOUTHWESTERN PUBLIC SERVICE CO	
1983									
JAN.	8	INDEPENDENCE NO. 1	NEW	740.0	FOSSIL STM	SUB-BITUM	NONE	AR/MID SO:ARKANSAS POWER & LIGHT CO	1
	10	BIG CAJUN 2 NO. 3	NEW	540.0	FOSSIL STM	SUB-BITUM	NONE	LA/CAJUN ELEC POWER COOP, INC. (LA)	18
APRIL	21	WOLF CREEK NO. 1	NEW	1150.0	NUC (PWR)	URANIUM	NONE	KS/KANSAS GAS & ELECTRIC CO	19
JUNE	21	HOLCOMB NO. 1	NEW	280.0	FOSSIL STM	COAL	NONE	KS/SUNFLOWER ELECTRIC COOP (KANSAS)	
	21	JEFFREY NO. 3	NEW	680.0	FOSSIL STM	SUB-BITUM	NONE	KS/KANSAS POWER & LIGHT CO	6
	21	LAWRENCE NO. 2	RETIRE	34.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	
	21	LAWRENCE 3,4,5	DERATE TO	393.0	FOSSIL STM	BITUMINOUS	NONE	KS/KANSAS POWER & LIGHT CO	20
	21	TECUMSEH 5 & 6	RETIRE	48.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	
	21	TECUMSEH 7 & 8	DERATE TO	153.0	FOSSIL STM	BITUMINOUS	NONE	KS/KANSAS POWER & LIGHT CO	21
	21	NORTHEAST 1,4,5,7	RETIRE	80.0	FOSSIL STM	NO. 2 OIL	NONE	MO/KANSAS CITY POWER & LIGHT CO	
OCT.	22	MUSKOGEE 1,2,A1	RETIRE	23.0	FOSSIL STM	NAT GAS	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
DEC.	8	LYNCH NO. 2	RETIRE	55.0	FOSSIL STM	NAT GAS	NO. 2 OIL	AR/MID SO:ARKANSAS POWER & LIGHT CO	
	8	STERLINGTON NO. 5	RETIRE	44.0	FOSSIL STM	NAT GAS	NONE	LA/MID SO:LOUISIANA POWER & LIGHT CO	
	22	EAST PLANT 2 & 3	RETIRE	25.0	FOSSIL STM	NAT GAS	NO. 2 OIL	TX/SOUTHWESTERN PUBLIC SERVICE CO	
	22	LONE STAR NO. 1	RETIRE	50.0	FOSSIL STM	NO. 2 OIL	NAT GAS	TX/CEN & SW:SOUTHWESTERN ELEC POWER CO	
1984									
JAN.	21	CLINTON NO. 4	RETIRE	8.0	FOSSIL STM	NAT GAS	NONE	MO/MISSOURI PUBLIC SERVICE CO	
	21	SEDALIA NO. 3	RETIRE	8.0	FOSSIL STM	NAT GAS	NO. 2 OIL	MO/MISSOURI PUBLIC SERVICE CO	
APRIL	10	RIVER BEND NO. 1	NEW	940.0	NUC (BWR)	URANIUM	NONE	LA/GULF STATES UTILITIES COMPANY	22
OCT.	22	MUSTANG 1-2	RETIRE	116.0	FOSSIL STM	NAT GAS	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
NOV.	22	MUSKOGEE NO. 6	NEW	515.0	FOSSIL STM	SUB-BITUM	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
DEC.	8	LAKE CATHERINE NO. 1	RETIRE	45.0	FOSSIL STM	NAT GAS	NO. 6 OIL	AR/MID SO:ARKANSAS POWER & LIGHT CO	
	8	LAKE CATHERINE NO. 2	RETIRE	44.0	FOSSIL STM	NAT GAS	NO. 6 OIL	AR/MID SO:ARKANSAS POWER & LIGHT CO	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

SOUTHWEST POWER POOL COORDINATION COUNCIL (SWPP)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1984									
DEC.	22	LIEBERMAN NO. 1	RETIRE	27.0	FOSSIL STM	NAT GAS	NONE	LA/CEN & SW:SOUTHWESTERN ELEC POWER CO	
	22	LIEBERMAN NO. 2	RETIRE	29.0	FOSSIL STM	NAT GAS	NONE	LA/CEN & SW:SOUTHWESTERN ELEC POWER CO	
	22	GRANDFIELD	RETIRE	2.0	DIESEL	NO. 2 OIL	NONE	OK/CEN & SW:PUBLIC SERV CO OF OKLAHOMA	
1985									
JAN.	8	INDEPENDENCE NO. 2	NEW	740.0	FOSSIL STM	SUB-BITUM	NONE	AR/MID SO:ARKANSAS POWER & LIGHT CO	1
	10	BIG CAJUN 3 NO. 1	NEW	540.0	FOSSIL STM	LIGNITE	NONE	LA/CAJUN ELEC POWER COOP, INC. (LA)	23
MARCH	22	PIRKEY NO. 1	NEW	640.0	FOSSIL STM	LIGNITE	NONE	TX/CEN & SW:SOUTHWESTERN ELEC POWER CO	
APRIL	8	GRAND GULF NO. 2	NEW	1250.0	NUC (BWR)	URANIUM	NONE	MS/MID SO:MISSISSIPPI POWER & LIGHT CO	16
	10	NELSON NO. 5	NEW	540.0	FOSSIL STM	SUB-BITUM	NONE	LA/GULF STATES UTILITIES COMPANY	
MAY	21	QUINDARO GT 4	NEW	58.0	COMB TURB	NO. 2 OIL	NONE	KS/KANSAS CITY BD OF PUB UTIL (KANS)	
JUNE	21	ABILENE NO. 1	RETIRE	18.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	
	21	ABILENE NO. 2	RETIRE	18.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	
	21	HUTCHISON NO. 1	RETIRE	19.0	FOSSIL STM	NAT GAS	NO. 6 OIL	KS/KANSAS POWER & LIGHT CO	
	21	JEFFREY NO. 4	NEW	680.0	FOSSIL STM	SUB-BITUM	NONE	KS/KANSAS POWER & LIGHT CO	6
	21	UNDETERMINED NO. 1	NEW	175.0	COMB TURB	NO. 2 OIL	NONE	MO/ASSOCIATED ELECTRIC COOP, INC. (MO)	
	22	TOLK NO. 2	NEW	508.0	FOSSIL STM	COAL	NONE	TX/SOUTHWESTERN PUBLIC SERVICE CO	
JULY	22	HARRY TRUMAN NO. 5	NEW	26.0	PUMP HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
	22	HARRY TRUMAN NO. 6	NEW	26.0	PUMP HYDRO	WATER	NONE	MO/SOUTHWESTERN POWER ADM	
DEC.	8	MOSES NO. 1	RETIRE	63.0	FOSSIL STM	NAT GAS	NO. 6 OIL	AR/MID SO:ARKANSAS POWER & LIGHT CO	
	8	MOSES NO. 2	RETIRE	63.0	FOSSIL STM	NAT GAS	NO. 6 OIL	AR/MID SO:ARKANSAS POWER & LIGHT CO	
	21	RIVERTON NO. 3	RETIRE	11.0	FOSSIL STM	NAT GAS	NONE	KS/EMPIRE DISTRICT ELECTRIC CO (MO)	
	21	RIVERTON NO. 4	RETIRE	9.0	FOSSIL STM	NO. 6 OIL	NONE	KS/EMPIRE DISTRICT ELECTRIC CO (MO)	
1986									
JAN.	10	BIG CAJUN 4 NO. 1	NEW	540.0	FOSSIL STM	LIGNITE	NONE	LA/CAJUN ELEC POWER COOP, INC. (LA)	23
MARCH	10	DOLET HILLS NO. 1	NEW	640.0	FOSSIL STM	LIGNITE	NONE	LA/CENTRAL LOUISIANA ELEC CO, INC	24
MAY	21	NEARMAN NO. 2	NEW	300.0	FOSSIL STM	COAL	NONE	KS/KANSAS CITY BD OF PUB UTIL (KANS)	
	21	GREENWOOD NO. 1	UPRATE TO	54.0	COMB TURB	NO. 2 OIL	NONE	MO/MISSOURI PUBLIC SERVICE CO	25
	21	GREENWOOD NO. 2	UPRATE TO	54.0	COMB TURB	NO. 2 OIL	NONE	MO/MISSOURI PUBLIC SERVICE CO	25
	21	GREENWOOD NO. 3	UPRATE TO	54.0	COMB TURB	NO. 2 OIL	NONE	MO/MISSOURI PUBLIC SERVICE CO	25
	21	GREENWOOD NO. 4	UPRATE TO	54.0	COMB TURB	NO. 2 OIL	NONE	MO/MISSOURI PUBLIC SERVICE CO	25
JUNE	8	UNCOMMITTED NO. 1	NEW	30.0	UNREPORTED	UNREPORTED	UNREPORTED	AR/ARKANSAS ELECTRIC COOP CORP	
	21	UNDETERMINED NO. 2	NEW	60.0	COMB TURB	NO. 2 OIL	NONE	MO/ASSOCIATED ELECTRIC COOP, INC. (MO)	
OCT.	10	LOVELADY NO. 1	NEW	400.0	FOSSIL STM	LIGNITE	NONE	TX/GULF STATES UTILITIES COMPANY	
	22	ARBUCKLE 1-A1	RETIRE	75.0	FOSSIL STM	NAT GAS	NONE	OK/OKLAHOMA GAS & ELECTRIC CO	
DEC.	22	CARLSBAD NO. 2	RETIRE	8.0	FOSSIL STM	NAT GAS	NO. 2 OIL	NM/SOUTHWESTERN PUBLIC SERVICE CO	
	22	HOLLIS DIESEL	RETIRE	4.0	DIESEL	NO. 2 OIL	NONE	OK/CEN & SW:PUBLIC SERV CO OF OKLAHOMA	
	22	SOUTHWESTERN NO. 1	RETIRE	80.0	FOSSIL STM	NAT GAS	NO. 2 OIL	OK/CEN & SW:PUBLIC SERV CO OF OKLAHOMA	
	22	SOUTHWESTERN NO. 2	RETIRE	80.0	FOSSIL STM	NAT GAS	NO. 2 OIL	OK/CEN & SW:PUBLIC SERV CO OF OKLAHOMA	
	22	TULSA NO. 3	RETIRE	93.0	FOSSIL STM	NAT GAS	NONE	OK/CEN & SW:PUBLIC SERV CO OF OKLAHOMA	
	22	DENVER CITY NO. 2	RETIRE	11.0	FOSSIL STM	NAT GAS	NO. 2 OIL	TX/SOUTHWESTERN PUBLIC SERVICE CO	
	22	KNOX LEE NO. 1	RETIRE	36.0	FOSSIL STM	NAT GAS	NONE	TX/CEN & SW:SOUTHWESTERN ELEC POWER CO	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

SOUTHWEST POWER POOL COORDINATION COUNCIL (SWPP)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	FUEL PRIMARY ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1987								
JAN.	8	WILTON NO. 1	NEW	750.0	FOSSIL STM	COAL	LA/MIDDLE SOUTH UTILITIES, INC.	
	10	BIG CAJUN 1 NO. 1	DERATE TO	90.0	FOSSIL STM	NO. 2 OIL	LA/CAJUN ELEC POWER COOP, INC. (LA)	26
	10	BIG CAJUN 1 NO. 2	DERATE TO	90.0	FOSSIL STM	NO. 2 OIL	LA/CAJUN ELEC POWER COOP, INC. (LA)	26
	22	OKLAUNION NO. 1	NEW	198.0	FOSSIL STM	SUB-BITUM	TX/CEN & SW: SOUTHWESTERN ELEC POWER CO	27
APRIL	22	BLACK FOX NO. 1	NEW	1150.0	NUC (BWR)	URANIUM	OK/CEN & SW: PUBLIC SERV CO OF OKLAHOMA	28
JUNE	8	UNCOMMITTED NO. 2	NEW	170.0	UNREPORTED	UNREPORTED	AR/ARKANSAS ELECTRIC COOP CORP	
	21	UNDECIDED	NEW	83.0	FOSSIL STM	UNREPORTED	MO/INDEPENDENCE, CITY OF (MO)	
	22	UNSITE COAL NO. 1	NEW	500.0	FOSSIL STM	SUB-BITUM	OK/OKLAHOMA GAS & ELECTRIC CO	
	22	ROBERTS COUNTY NO. 1	NEW	600.0	FOSSIL STM	COAL	TX/SOUTHWESTERN PUBLIC SERVICE CO	
OCT.	10	LOVELADY NO. 2	NEW	400.0	FOSSIL STM	LIGNITE	TX/GULF STATES UTILITIES COMPANY	
DEC.	8	LAKE CATHERINE NO. 3	RETIRE	90.0	FOSSIL STM	NAT GAS	AR/MID SO: ARKANSAS POWER & LIGHT CO	
	8	PATERSON NO. 1	RETIRE	46.0	FOSSIL STM	NAT GAS	LA/MID SO: NEW ORLEANS PUBLIC SERVICE	
	21	RIVERTON NO. 6	RETIRE	29.0	FOSSIL STM	NO. 6 OIL	KS/EMPIRE DISTRICT ELECTRIC CO (MO)	
	22	KNOX LEE NO. 2	RETIRE	38.0	FOSSIL STM	NAT GAS	TX/CEN & SW: SOUTHWESTERN ELEC POWER CO	
1988								
JAN.	8	E. ORLEANS NO. 1	NEW	750.0	FOSSIL STM	COAL	LA/MIDDLE SOUTH UTILITIES, INC.	
	10	BIG CAJUN 3 NO. 2	NEW	540.0	FOSSIL STM	LIGNITE	LA/CAJUN ELEC POWER COOP, INC. (LA)	23
	22	KARNACK NO. 1	NEW	270.0	FOSSIL STM	LIGNITE	TX/CEN & SW: SOUTHWESTERN ELEC POWER CO	29
MAY	21	PLANT Z-1	NEW	100.0	FOSSIL STM	BITUMINOUS	MO/MISSOURI PUBLIC SERVICE CO	30
JUNE	8	UNCOMMITTED NO. 3	NEW	180.0	UNREPORTED	UNREPORTED	AR/ARKANSAS ELECTRIC COOP CORP	
	21	UNSITE	NEW	200.0	FOSSIL STM	COAL	MO/EMPIRE DISTRICT ELECTRIC CO (MO)	30
	22	UNSITE COAL NO. 2	NEW	500.0	FOSSIL STM	SUB-BITUM	OK/OKLAHOMA GAS & ELECTRIC CO	
OCT.	10	TEXAS NO. 1	NEW	400.0	FOSSIL STM	LIGNITE	TX/GULF STATES UTILITIES COMPANY	
	22	MUSKOGEE NO. 3	RETIRE	185.0	FOSSIL STM	NAT GAS	OK/OKLAHOMA GAS & ELECTRIC CO	
	22	MUSTANG NO. 3	RETIRE	114.0	FOSSIL STM	NAT GAS	OK/OKLAHOMA GAS & ELECTRIC CO	
DEC.	8	COUCH NO. 2	RETIRE	122.0	FOSSIL STM	NAT GAS	AR/MID SO: ARKANSAS POWER & LIGHT CO	
	8	LYNCH NO. 3	RETIRE	130.0	FOSSIL STM	NAT GAS	AR/MID SO: ARKANSAS POWER & LIGHT CO	
	8	PATERSON NO. 2	RETIRE	42.0	FOSSIL STM	NAT GAS	LA/MID SO: NEW ORLEANS PUBLIC SERVICE	
	21	EDMOND ST. 4, 5, 6, 7	RETIRE	51.0	FOSSIL STM	NAT GAS	MO/ST JOSEPH LIGHT & POWER CO	
	22	ROSWELL NO. 1	RETIRE	10.0	COMB TURB	NAT GAS	WM/SOUTHWESTERN PUBLIC SERVICE CO	
	22	DENVER CITY NO. 3	RETIRE	20.0	FOSSIL STM	NAT GAS	TX/SOUTHWESTERN PUBLIC SERVICE CO	
	22	KNOX LEE NO. 3	RETIRE	36.0	FOSSIL STM	NAT GAS	TX/CEN & SW: SOUTHWESTERN ELEC POWER CO	
1989								
JAN.	8	ALEC NO. 1	NEW	750.0	FOSSIL STM	LIGNITE	AR/MID SO: ARKANSAS POWER & LIGHT CO	31
	8	WILTON NO. 2	NEW	750.0	FOSSIL STM	COAL	LA/MIDDLE SOUTH UTILITIES, INC.	
	22	COLETO CREEK NO. 2	NEW	325.0	FOSSIL STM	SUB-BITUM	TX/CEN & SW: SOUTHWESTERN ELEC POWER CO	32
JUNE	21	HUTCHISON NO. 2	RETIRE	19.0	FOSSIL STM	NAT GAS	KS/KANSAS POWER & LIGHT CO	
	21	IATAN NO. 2	NEW	650.0	FOSSIL STM	SUB-BITUM	MO/KANSAS CITY POWER & LIGHT CO	33
	22	UNSITE COAL NO. 3	NEW	500.0	FOSSIL STM	SUB-BITUM	OK/OKLAHOMA GAS & ELECTRIC CO	
	22	ROBERTS COUNTY NO. 2	NEW	600.0	FOSSIL STM	COAL	TX/SOUTHWESTERN PUBLIC SERVICE CO	
SEPT.	10	BR COAL NO. 1	NEW	600.0	FOSSIL STM	SUB-BITUM	LA/GULF STATES UTILITIES COMPANY	
OCT.	22	HORSESHOE LAKE NO. 6	RETIRE	181.0	FOSSIL STM	NAT GAS	OK/OKLAHOMA GAS & ELECTRIC CO	
DEC.	22	CARLSBAD NO. 3	RETIRE	18.0	FOSSIL STM	NAT GAS	WM/SOUTHWESTERN PUBLIC SERVICE CO	
	22	EAST PLANT NO. 4	RETIRE	39.0	FOSSIL STM	NAT GAS	TX/SOUTHWESTERN PUBLIC SERVICE CO	

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

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SOUTHWEST POWER POOL COORDINATION COUNCIL (SWPP)

- 1 UNIT JOINTLY OWNED BY ARKANSAS POWER & LIGHT CO. (58 %), ARKANSAS ELECTRIC COOP. (35 %), CITY OF JONESBORO (5 %), AND CONWAY CORP. (2 %).
- 2 THIS UNIT DERATED 1 MW.
- 3 THIS UNIT DERATED 2 MW.
- 4 THESE UNITS DERATED A TOTAL OF 11 MW.
- 5 THIS UNIT UPRATED 5 MW. SEE FOOTNOTE 6 FOR OWNERS.
- 6 UNIT JOINTLY OWNED BY KANSAS POWER & LIGHT COMPANY (64 %), KANSAS GAS & ELECTRIC COMPANY (20 %), MISSOURI PUBLIC SERVICE COMPANY (8 %) AND CENTRAL TELEPHONE & UTIL. CORP., WESTERN POWER DIVISION (8 %).
- 7 THIS UNIT UPRATED 3 MW.
- 8 THESE UNITS DERATED A TOTAL OF 38 MW.
- 9 THESE UNITS DERATED A TOTAL OF 14 MW.
- 10 THESE UNITS DERATED A TOTAL OF 29 MW.
- 11 UNIT JOINTLY OWNED BY KANSAS CITY POWER & LIGHT CO. (70 %), ST. JOSEPH LIGHT & POWER CO. (18 %), AND EMPIRE DISTRICT ELECTRIC CO. (12 %).
- 12 THE CITY OF INDEPENDENCE PURCHASED THIS EXISTING DEACTIVATED STEAM UNIT OWNED BY N.W. ELECTRIC COOP.
- 13 THESE UNITS DERATED A TOTAL OF 5 MW.
- 14 UNIT JOINTLY OWNED BY CENTRAL LOUISIANA ELECTRIC CO., INC. (50 %) AND LAFAYETTE, LOUISIANA, UTILITY SYSTEM (50 %).
- 15 THIS UNIT UPRATED 15 MW.
- 16 UNIT JOINTLY OWNED BY MISSISSIPPI POWER & LIGHT CO. (90 %) AND 10 % BY OTHERS NOT REPORTED IN ERA-411.
- 17 THESE UNITS PLACED IN DEACTIVATED RESERVE SHUTDOWN STATUS (UNITS TOTAL 30 MW).
- 18 UNIT JOINTLY OWNED BY GULF STATES UTILITIES CO. (50 %) AND CAJUN ELECTRIC POWER COOP. (50 %).
- 19 UNIT JOINTLY OWNED BY KANSAS GAS & ELECTRIC CO. (41.5 %), KANSAS CITY POWER & LIGHT CO. (41.5 %) AND KANSAS ELECTRIC POWER COOPERATIVE (17 %).
- 20 THESE UNITS DERATED A TOTAL OF 89 MW.
- 21 THESE UNITS DERATED A TOTAL OF 34 MW.
- 22 UNIT JOINTLY OWNED BY GULF STATES UTILITIES CO. (60 %), CAJUN ELECTRIC POWER COOP. (30 %) AND POSSIBLY 10 % BY SAM RAYBURN DAM COOP AND EPSA.

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

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SOUTHWEST POWER POOL COORDINATION COUNCIL (SWPP)

- 23 UNIT JOINTLY OWNED BY CAJUN ELECTRIC POWER COOP. (75 %) AND GULF STATES UTILITIES CO. (25 %).
- 24 UNIT JOINTLY OWNED BY CENTRAL LOUISIANA ELECTRIC CO. (50 %) AND SOUTHWESTERN ELECTRIC POWER CO. (50 %).
- 25 THIS UNIT UPRATED 5 MW DUE TO THE INSTALLATION OF EVAPORATIVE COOLERS.
- 26 THIS STEAM UNIT DERATED 25 MW AND BECOMES A PEAKING UNIT.
- 27 UNIT JOINTLY OWNED BY SOUTHWESTERN ELECTRIC POWER CO. (148 MW), PUBLIC SERVICE CO. OF OKLAHOMA (50 MW), WEST TEXAS UTILITIES CO. (307 MW) (ERCOT), AND CENTRAL POWER & LIGHT CO. (135 MW) (ERCOT).
- 28 UNIT JOINTLY OWNED BY PUBLIC SERVICE CO. OF OKLAHOMA (700 MW), ASSOCIATED ELECTRIC COOP. (250 MW) AND WESTERN FARMERS ASSOCIATION (200 MW).
- 29 UNIT JOINTLY OWNED BY CENTRAL POWER & LIGHT CO. (211 MW) (ERCOT), WEST TEXAS UTILITIES CO. (109 MW) (ERCOT), CITY OF BROWNSVILLE (50 MW) (ERCOT), SOUTHWESTERN ELECTRIC POWER CO. (220 MW) AND PUBLIC SERVICE CO. OF OKLAHOMA (50 MW).
- 30 PARTICIPATION IN JOINTLY OWNED UNIT. LOCATION AND OTHER OWNERS TO BE DETERMINED.
- 31 UNIT JOINTLY OWNED BY ARKANSAS POWER & LIGHT COMPANY (60 %), ARKANSAS ELECTRIC COOP. (35 %) AND CITY OF JONESBORO (5 %).
- 32 UNIT JOINTLY OWNED BY WEST TEXAS UTILITIES CO. (65 MW) (ERCOT), CENTRAL POWER & LIGHT CO. (250 MW) (ERCOT), SOUTHWESTERN ELECTRIC POWER CO. (275 MW), AND PUBLIC SERVICE CO. OF OKLAHOMA (50 MW).
- 33 UNIT JOINTLY OWNED BY KANSAS CITY POWER & LIGHT CO. (70 %), ST. JOSEPH LIGHT & POWER CO. (18 %) AND OTHERS AS YET UNKNOWN (12 %).

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGYWESTERN SYSTEMS COORDINATING COUNCIL (WSCC)
(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED M/JNTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	1----- PRIMARY	FUEL ----- ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1980									
JAN.	24	DRAKE NO. 2A	RETIRE	2.0	FOSSIL STM	NAT GAS	NO. 6 OIL	CO/COLORADO SPRINGS, CITY OF	
	24	DRAKE NO. 2B	RETIRE	2.0	FOSSIL STM	NAT GAS	NO. 6 OIL	CO/COLORADO SPRINGS, CITY OF	
	25	BEAVER NO. 1-6	DERATE TO	316.0	C C/CT	NO. 2 OIL	NAT GAS	OR/PORTLAND GENERAL ELECTRIC COMPANY	21
	25	BEAVER NO. 7	DERATE TO	105.0	C C/STEAM	WASTE HEAT	NONE	OR/PORTLAND GENERAL ELECTRIC COMPANY	20
	26	PRAGER NO. 7-8	RETIRE	11.0	FOSSIL STM	NAT GAS	NO. 2 OIL	NM/PUBLIC SERVICE CO OF NEW MEXICO	
FEB.	27	BIG CREEK 3 NO. 5	NEW	31.0	HYDRO	WATER	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
MARCH	27	GREG AVE. NO. 1	NEW	1.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	27	LAKE MATHEWS NO. 1	NEW	5.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	28	ROLLINS (NEID) NO. 1	NEW	5.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	13
	28	VOLTA NO. 1	DERATE TO	5.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	14
APRIL	24	RAY D NIXON NO. 1	NEW	200.0	FOSSIL STM	BITUMINOUS	NONE	CO/COLORADO SPRINGS, CITY OF	
	24	LARAMIE RIVER NO. 1	NEW	500.0	FOSSIL STM	BITUMINOUS	NONE	WY/BASIN ELECTRIC PWR COOP, INC. (ND)	3
	28	GEYSERS NO. 13	NEW	135.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	30	BROWNLEE NO. 5	NEW	225.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
MAY	25	GRAND COULEE NO. 24	NEW	700.0	HYDRO	WATER	NONE	WA/USBR COLUMBIA BASIN PROJECT	
	26	COPPER STATION NO. 1	NEW	73.0	COMB TURB	NO. 2 OIL	NAT GAS	TX/EL PASO ELECTRIC COMPANY	
	28	DROP 1	NEW	3.0	HYDRO	WATER	NONE	CA/TURLOCK-MODESTO IRRIG DIST	
	28	MCCLURE STN. NO. 1	NEW	50.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/MODESTO IRRIGATION DISTRICT	
JUNE	24	CRAIG NO. 1	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	CO/COLORADO-UTE ELEC ASSN, INC	5
	24	SEMINOE NO. 1-3	UPRATE TO	49.0	HYDRO	WATER	NONE	WY/USBR WY-NE-CO-INTERCONNECTED SYSTEM	39
	27	FOOTHILL FDR NO. 1-2	NEW	10.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	27	ROCKWOOD CT NO. 2	NEW	25.0	COMB TURB	NO. 2 OIL	NONE	CA/IMPERIAL IRRIGATION DISTRICT	
	27	CLARK GT NO. 7	NEW	70.0	COMB TURB	NAT GAS	NO. 2 OIL	NV/NEVADA POWER COMPANY	
	30	HUNTER (EMERY) NO. 2	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	UT/UTAH POWER & LIGHT COMPANY	
JULY	25	BOARDMAN	NEW	530.0	FOSSIL STM	BITUMINOUS	NONE	OR/PORTLAND GENERAL ELECTRIC COMPANY	22
	25	EUGENE STEAM PLANT NO. 1	RETIRE	7.0	FOSSIL STM	NO. 4 OIL	NONE	OR/EUGENE WATER & ELECTRIC BOARD (OR)	
AUG.	25	WIND (MTG) NO. 1	NEW	1.0	WINDMILL	WIND	NONE	OR/EUGENE WATER & ELECTRIC BOARD (OR)	
	26	CHOLLA NO. 3	NEW	242.0	FOSSIL STM	SUB-BITUM	NONE	AZ/ARIZONA PUBLIC SERVICE COMPANY	
	28	GEYSERS NO. 14	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
OCT.	25	POST FALLS NO. 6	NEW	4.0	HYDRO	WATER	NONE	ID/WASHINGTON WTR PWR CO, THE	
	26	CORONADO NO. 2	NEW	350.0	FOSSIL STM	SUB-BITUM	NONE	AZ/SALT RIVER PROJ AGRI IMP PWR DIST	30
	27	SAN DIMAS NO. 1	NEW	10.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
NOV.	25	WHITEHORN NO. 2-3	NEW	178.0	COMB TURB	NAT GAS	NO. 2 OIL	WA/PUGET SOUND POWER & LIGHT COMPANY	
DEC.	25	GOODNOE HILLS NO. 1	NEW	2.5	WINDMILL	WIND	NONE	WA/BONNEVILLE POWER ADM	
	25	GRAND COULEE NO. P9	NEW	0.0	PUMP HYDRO	WATER	NONE	WA/USBR COLUMBIA BASIN PROJECT	
	28	VOLTA NO. 2	NEW	1.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
1981									
JAN.	24	PAWNEE NO. 1	NEW	470.0	FOSSIL STM	BITUMINOUS	NONE	CO/PUBLIC SERVICE CO OF COLORADO	35
	27	LONG BEACH NO. 11	UPRATE TO	106.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	34
	27	LONG BEACH NO. 8	UPRATE TO	257.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	28	OIL FIELD NO. 1	NEW	7.0	UNREPORTED	CRUDE OIL	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
FEB.	27	NEW MELONES	NEW	300.0	HYDRO	WATER	NONE	CA/USBR CENTRAL VALLEY PROJECT	
	27	YORBA LINDA NO. 1	NEW	5.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	28	DIABLO CANYON NO. 1	NEW	1084.0	NUC (PWR)	URANIUM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	15
MARCH	25	GOODNOE HILLS NO. 2	NEW	2.5	WINDMILL	WIND	NONE	WA/BONNEVILLE POWER ADM	
	27	ETIWANDA NO. 5	UPRATE TO	109.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	37
	30	ANDERSON RANCH NO. 1-2	UPRATE TO	45.0	HYDRO	WATER	NONE	ID/USBR COLUMBIA BASIN PROJECT	46
APRIL	25	GRAND COULEE NO. P10	NEW	0.0	PUMP HYDRO	WATER	NONE	WA/USBR COLUMBIA BASIN PROJECT	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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TO THE DEPARTMENT OF ENERGY

WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	PRIMARY FUEL	ALTERNATE FUEL	STATE/SYSTEM NAME	NOTE NO.
1981									
MAY	25	BONNEVILLE PH 2 NO. F-1	NEW	15.0	HYDRO	WATER	NONE	OF/U. S. ARMY CORPS OF ENGINEERS	
	25	BONNEVILLE PH 2 NO. F-2	NEW	15.0	HYDRO	WATER	NONE	OF/U. S. ARMY CORPS OF ENGINEERS	
	25	BONNEVILLE PH 2 NO. 18	NEW	76.0	HYDRO	WATER	NONE	OF/U. S. ARMY CORPS OF ENGINEERS	
	26	SOUTH CONSOLIDATED NO. 1	NEW	1.0	HYDRO	WATER	NONE	AZ/SALT RIVER PROJ AGRIC IMP PWR DIST	
	27	SELPULVEDA CANYON NO. 1	NEW	9.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
JUNE	25	GOODNOE HILLS NO. 3	NEW	2.5	WINDMILL	WIND	NONE	WZ/BONNEVILLE POWER ADM	
	26	CHOLLA NO. 4	NEW	347.0	FOSSIL STM	SUB-BITUM	NONE	AZ/ARIZONA PUBLIC SERVICE COMPANY	
	27	CO-GENERATION	NEW	9.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	NILAND NO. CT1	NEW	25.0	C C/CT	NO. 2 OIL	NONE	CA/IMPERIAL IRRIGATION DISTRICT	
	27	CLARK GT NO. 8	NEW	70.0	COMB TURB	NAT GAS	NO. 2 OIL	NV/NEVADA POWER COMPANY	
	28	COMPRESSOR COGEN	NEW	3.0	FOSSIL STM	WASTE HEAT	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
JULY	24	CABIN CREEK	UPRATE TO	162.0	PUMP HYDRO	WATER	NONE	CO/PUBLIC SERVICE CO OF COLORADO	24
	24	MOUNT ELBERT NO. 1	NEW	100.0	PUMP HYDRO	WATER	NONE	CO/USBR WY-NE-CO-INTERCONNECTED SYSTEM	
	25	BONNEVILLE PH 2 NO. 17	NEW	76.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	28	BIOMASS COGEN	NEW	20.0	UNREPORTED	REFUSE	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
AUG.	25	GRAND COULEE NO. P11	NEW	0.0	PUMP HYDRO	WATER	NONE	WZ/USBR COLUMBIA BASIN PROJECT	
	28	DIABLO CANYON NO. 2	NEW	1106.0	NUC (PWR)	URANIUM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	15
	28	MAIN CANAL	NEW	3.0	HYDRO	WATER	NONE	CA/TURLOCK-MODESTO IRRIG DIST	
	28	WOODWARD	NEW	2.0	HYDRO	WATER	NONE	CA/TURLOCK-MODESTO IRRIG DIST	
SEPT.	25	BONNEVILLE PH 2 NO. 16	NEW	76.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	27	MAGNOLIA NO. 1	RETIRE	10.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/BURBANK PUBLIC SERVICE DEPARTMENT	
	27	MAGNOLIA NO. 2	RETIRE	10.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/BURBANK PUBLIC SERVICE DEPARTMENT	
	27	VENICE NO. 1	NEW	10.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	28	WILD WELL GEOTH	NEW	5.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
OCT.	27	SAN ONOFRE NO. 2	NEW	1120.0	NUC (PWR)	URANIUM	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	36
	28	N. VALMY NO. 1	NEW	250.0	FOSSIL STM	BITUMINOUS	NONE	NV/SIERRA PACIFIC POWER COMPANY	32
NOV.	25	BONNEVILLE PH 2 NO. 15	NEW	76.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	25	COMBUSTION TURBINE	NEW	178.0	COMB TURB	NO. 2 OIL	NONE	WA/PUGET SOUND POWER & LIGHT COMPANY	
	27	TEMESCAL NO. 1	NEW	3.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	28	GEOTHERMAL PROJECT NO. 1	NEW	53.0	GEOTHERMAL	NAT STEAM	NONE	CA/NORTHERN CALIFORNIA POWER AGENCY	
DEC.	24	BLUE MESA NO. 1	UPRATE TO	48.0	HYDRO	WATER	NONE	CO/USBR UPPER COLORADO REGION	42
	24	MEDICINE BOW NO. 1	NEW	2.0	WINDMILL	WIND	NONE	WY/USBR WY-NE-CO-INTERCONNECTED SYSTEM	
	25	GRAND COULEE NO. P12	NEW	0.0	PUMP HYDRO	WATER	NONE	WZ/USBR COLUMBIA BASIN PROJECT	
	27	SOLAR PILOT PLANT	NEW	2.0	SOLAR	SUN	NONE	CA/LOS ANGELES DEPT OF WATER AND POWER	
	28	HAAS	UPRATE TO	154.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	16
	28	HELMS NO. 1	NEW	374.0	PUMP HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	OIL FIELD NO. 2	NEW	13.0	UNREPORTED	CRUDE OIL	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
1982									
JAN.	25	BONNEVILLE PH 2 NO. 14	NEW	76.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	27	PYRAMID NO. 2	NEW	38.0	HYDRO	WATER	NONE	CA/CA. STATE DEPT. OF WATER RESOURCES	
	28	WIND(EXPERIMENTAL)	NEW	0.0	WINDMILL	WIND	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	44
MARCH	25	BONNEVILLE PH 2 NO. 13	NEW	76.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	26	BACA GEOTHERMAL NO. 1	NEW	45.0	GEOTHERMAL	NAT STEAM	NONE	NM/PUBLIC SERVICE CO OF NEW MEXICO	
	27	CORONA NO. 1	NEW	3.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	27	PYRAMID NO. 1	NEW	38.0	HYDRO	WATER	NONE	CA/CA. STATE DEPT. OF WATER RESOURCES	
	28	GEOTHERMAL PROJECT NO. 2	NEW	53.0	GEOTHERMAL	NAT STEAM	NONE	CA/NORTHERN CALIFORNIA POWER AGENCY	
APRIL	24	LARAMIE RIVER NO. 3	NEW	580.0	FOSSIL STM	BITUMINOUS	NONE	WY/BASIN ELECTRIC PWR COOP, INC. (ND)	3
	28	HELMS NO. 2	NEW	373.0	PUMP HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
MAY	25	BONNEVILLE PH 2 NO. 12	NEW	76.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	26	SAN JUAN NO. 3	DERATE TO	488.0	FOSSIL STM	BITUMINOUS	NONE	NM/PUBLIC SERVICE CO OF NEW MEXICO	29
	26	SAN JUAN NO. 4	NEW	472.0	FOSSIL STM	BITUMINOUS	NONE	NM/PUBLIC SERVICE CO OF NEW MEXICO	

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)
(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	1----- PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1982									
MAY	28	HELMS NO. 3	NEW	373.0	PUMP HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
JUNE	27	CO-GENERATION	NEW	9.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	NILAND NO. CT2	NEW	25.0	C C/CT	NO. 2 OIL	NONE	CA/IMPERIAL IRRIGATION DISTRICT	
	28	COGENERATION	NEW	25.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	POTRERO 7 NO. CT	NEW	272.0	C C/CT	NAT GAS	NO. 2 OIL	CA/PACIFIC GAS & ELECTRIC COMPANY	
	30	CITY POWER PLANT	NEW	8.0	HYDRO	WATER	NONE	ID/IDAHO FALLS ELEC LIGHT DEPT	
	30	LOWER POWER PLANT	NEW	11.0	HYDRO	WATER	NONE	ID/IDAHO FALLS ELEC LIGHT DEPT	
	30	UPPER POWER PLANT	NEW	8.0	HYDRO	WATER	NONE	ID/IDAHO FALLS ELEC LIGHT DEPT	
JULY	25	BONNEVILLE PH 2 NO. 11	NEW	76.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	25	KETTLE FALLS	NEW	42.0	FOSSIL STM	WOOD	NONE	WA/WASHINGTON WTR PWR CO, THE	
	26	FOUR CORNERS NO. 4	DERATE TO	785.0	FOSSIL STM	SUB-BITUM	NONE	NM/ARIZONA PUBLIC SERVICE COMPANY	1
	27	SAN FRANCISCO 1 NO. 1A	UPRATE TO	49.0	HYDRO	WATER	NONE	CA/LOS ANGELES DEPT OF WATER AND POWER	8
	28	GEYSERS NO. 17	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
SEPT.	26	PRAGER NO. 9	RETIRE	11.0	FOSSIL STM	NAT GAS	NO. 2 OIL	NM/PUBLIC SERVICE CO OF NEW MEXICO	
	27	COTTONWOOD NO. 1	NEW	15.0	HYDRO	WATER	NONE	CA/CA. STATE DEPT. OF WATER RESOURCES	
	27	PERRIS NO. 1	NEW	7.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	28	POTRERO NO. 1	RETIRE	58.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	POTRERO NO. 2	RETIRE	58.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/PACIFIC GAS & ELECTRIC COMPANY	
OCT.	25	MAYFIELD NO. 4	UPRATE TO	136.0	HYDRO	WATER	NONE	WA/TACOMA DEPT OF PUB UTIL (LIGHT DIV)	38
	28	GEYSERS NO. 18	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
NOV.	27	SANTIAGO CREEK NO. 1	NEW	3.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
DEC.	24	BLUE MESA NO. 2	UPRATE TO	48.0	HYDRO	WATER	NONE	CO/USBR UPPER COLORADO REGION	42
	28	OIL FIELD NO. 3	NEW	27.0	UNREPORTED	CRUDE OIL	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	43
	30	FLAMING GORGE NO. 1	UPRATE TO	55.0	HYDRO	WATER	NONE	UT/USBR UPPER COLORADO REGION	
1983									
JAN.	25	HANFORD(WNP2) NO. 2	NEW	1100.0	NUC (BWR)	URANIUM	NONE	WA/WASHINGTON PUBLIC POWER SUPPLY SYS	
	26	FOUR CORNERS NO. 5	DERATE TO	785.0	FOSSIL STM	SUB-BITUM	NONE	NM/ARIZONA PUBLIC SERVICE COMPANY	36
	27	SAN ONOFRE NO. 3	NEW	1100.0	NUC (PWR)	URANIUM	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
MARCH	27	RIO HONDO NO. 1	NEW	2.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
APRIL	26	UNSITE CT	NEW	50.0	COMB TURB	NO. 2 OIL	NONE	NM/PLAINS ELEC GEN & TRANS COOP, INC	
	27	BOTTLE ROCK NO. 1	NEW	55.0	GEOTHERMAL	NAT STEAM	NONE	CA/CA. STATE DEPT. OF WATER RESOURCES	4
	27	PINE FLAT(KRCD)	NEW	165.0	HYDRO	WATER	NONE	CA/CA. STATE DEPT. OF WATER RESOURCES	43
	30	FLAMING GORGE NO. 2	UPRATE TO	55.0	HYDRO	WATER	NONE	UT/USBR UPPER COLORADO REGION	
MAY	26	PALO VERDE NO. 1	NEW	1270.0	NUC (PWR)	URANIUM	NONE	AZ/ARIZONA PUBLIC SERVICE COMPANY	2
JUNE	25	HANFORD-NPR NO. 1	RETIRE	420.0	NUCLEAR	URANIUM	NONE	WA/WASHINGTON PUBLIC POWER SUPPLY SYS	45
	25	HANFORD-NPR NO. 2	RETIRE	420.0	NUCLEAR	URANIUM	NONE	WA/WASHINGTON PUBLIC POWER SUPPLY SYS	45
	27	CO-GENERATION	NEW	9.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	REID GARDNER NO. 4	NEW	250.0	FOSSIL STM	BITUMINOUS	OIL	NV/NEVADA POWER COMPANY	10
	28	COGENERATION	NEW	15.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	INDUSTRIAL COGEN	NEW	10.0	COMB TURB	NAT GAS	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	POTRERO 7 NO. CT	DERATE TO	253.0	C C/CT	NAT GAS	NO. 2 OIL	CA/PACIFIC GAS & ELECTRIC COMPANY	17
	28	POTRERO 7 NO. CW	NEW	125.0	C C/STEAM	NAT GAS	NO. 2 OIL	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	SOLID WASTE NO. 1	NEW	40.0	FOSSIL STM	REFUSE	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	30	HUNTER (EMERY) NO. 3	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	UT/UTAH POWER & LIGHT COMPANY	
JULY	24	CRAIG NO. 3	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	CO/COLORADO-UTE ELEC ASSN, INC	31
	25	ROSS DAM NO. 1	UPRATE TO	132.0	HYDRO	WATER	NONE	WA/SEATTLE DEPT OF LIGHTING	31
	25	ROSS DAM NO. 2	UPRATE TO	132.0	HYDRO	WATER	NONE	WA/SEATTLE DEPT OF LIGHTING	31
	25	ROSS DAM NO. 3	UPRATE TO	132.0	HYDRO	WATER	NONE	WA/SEATTLE DEPT OF LIGHTING	31
	25	ROSS DAM NO. 4	UPRATE TO	132.0	HYDRO	WATER	NONE	WA/SEATTLE DEPT OF LIGHTING	31
	27	COVINA NO. 1	NEW	3.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	

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SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I-PRIMARY	FUEL -ALTERNATE-I	STATE/SYSTEM NAME	NOTE NO.
1983									
JULY	28	SMALL HYDRO	NEW	10.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
AUG.	24	MOUNT ELBERT NO. 2	NEW	100.0	PUMP HYDRO	WATER	NONE	CO/USBR WY-NE-CO-INTERCONNECTED SYSTEM	
SEPT.	28	OIL FIELD COGEN NO. 4	NEW	20.0	UNREPORTED	CRUDE OIL	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
OCT.	27	RED MOUNTAIN NO. 1	NEW	4.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	18
	28	KERCKHOFF	DERATE TO	0.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	KERCKHOFF NO. 2	NEW	151.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
NOV.	25	LIBBY NO. 5	NEW	121.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	25	LIBBY NO. 6	NEW	121.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	25	LIBBY NO. 7	NEW	121.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	25	LIBBY NO. 8	NEW	121.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	27	COYOTE CREEK NO. 1	NEW	3.0	HYDRO	WATER	NONE	CA/METROPOLITAN WTR DIST OF SO CALIF	
	28	GEYSERS NO. 16	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
DEC.	28	INDUSTRIAL COGEN	NEW	41.0	FOSSIL STM	WOOD	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	43
	30	FLAMING GORGE NO. 3	UPRATE TO	55.0	HYDRO	WATER	NONE	UT/USBR UPPER COLORADO REGION	
1984									
JAN.	25	COLSTRIP NO. 3	NEW	700.0	FOSSIL STM	BITUMINOUS	NONE	MT/MONTANA POWER COMPANY, THE	9
	25	LIBBY REREGULATING NO. 1	NEW	24.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	26	RIO GRANDE NO. 1-2	RETIRE	26.0	FOSSIL STM	NO. 2 OIL	NAT GAS	NM/EL PASO ELECTRIC COMPANY	8
	27	GLENARM NO. 9	DERATE TO	45.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/PASADENA, CITY OF WTR & PWR DEPT	
	27	SAN FRANCISQUITO 1 NO. 5	UPRATE TO	49.0	HYDRO	WATER	NONE	CA/LOS ANGELES DEPT OF WATER AND POWER	
MARCH	27	WIND NO. 1	NEW	1.0	WINDMILL	WIND	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
APRIL	24	RAWHIDE NO. 1	NEW	250.0	FOSSIL STM	BITUMINOUS	NONE	CO/PLATT RIVER POWER AUTH.	
	25	LIBBY REREGULATING NO. 2	NEW	24.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	27	SOUTH GEYSERS NO. 1	NEW	55.0	GEOTHERMAL	NAT STEAM	NONE	CA/CA. STATE DEPT. OF WATER RESOURCES	
MAY	26	PALO VERDE NO. 2	NEW	1270.0	NUC (PWR)	URANIUM	NONE	AZ/ARIZONA PUBLIC SERVICE COMPANY	2
JUNE	26	ESCALANTE NO. 1	NEW	210.0	FOSSIL STM	BITUMINOUS	NONE	NM/PLAINS ELEC GEN & TRANS COOP, INC	
	27	CO-GENERATION	NEW	10.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	GEOTHERMAL NO. 1	NEW	9.0	GEOTHERMAL	NAT STEAM	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	NILAND NO. 3	NEW	20.0	C C/STEAM	NO. 2 OIL	NONE	CA/IMPERIAL IRRIGATION DISTRICT	
	28	COGENERATION	NEW	35.0	COMB TURB	NAT GAS	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	GEOTHERMAL	NEW	53.0	GEOTHERMAL	NAT STEAM	NONE	CA/SACRAMENTO MUNICIPAL UTILITY DIST	
	28	SOLID WASTE	NEW	40.0	FOSSIL STM	WOOD	REFUSE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	STANISLAUS R.	NEW	280.0	HYDRO	WATER	NONE	CA/NORTHERN CALIFORNIA POWER AGENCY	
	30	LUCKY PEAK	NEW	76.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
JULY	25	LIBBY REREGULATING NO. 3	NEW	24.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	28	SMALL HYDRO	NEW	10.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
SEPT.	28	UNIT CLASS 330MW	RETIRE	330.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/PACIFIC GAS & ELECTRIC COMPANY	19
OCT.	24	OSAGE NO. 4	NEW	100.0	FOSSIL STM	SUB-BITUM	NONE	WY/BLACK HILLS PWR & LT CO (SD)	32
	25	LIBBY REREGULATING NO. 4	NEW	4.0	HYDRO	WATER	NONE	MT/U. S. ARMY CORPS OF ENGINEERS	
	27	MAGNOLIA NO. 3	RETIRE	40.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/BURBANK PUBLIC SERVICE DEPARTMENT	
	28	N. VALMY NO. 2	NEW	20.0	FOSSIL STM	BITUMINOUS	NONE	WV/SIERRA PACIFIC POWER COMPANY	
1985									
APRIL	24	SOUTHEAST NO. 1	NEW	470.0	FOSSIL STM	BITUMINOUS	NONE	CO/PUBLIC SERVICE CO OF COLORADO	26
	25	DWORSHAK NO. 4	NEW	253.0	HYDRO	WATER	NONE	ID/U. S. ARMY CORPS OF ENGI	

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WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL ----- ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1985									
MAY	26	CHOLLA NO. 5	NEW	347.0	FOSSIL STM	SUB-BITUM	NONE	AZ/ARIZONA PUBLIC SERVICE COMPANY	
JJNE	25	HANFORD(WNP1) NO. 1	NEW	1250.0	NUC (PWR)	URANIUM	NONE	WA/WASHINGTON PUBLIC POWER SUPPLY SYS	
	26	SPRINGERVILLE NO. 1	NEW	350.0	FOSSIL STM	SUB-BITUM	NONE	AZ/UCSON ELECTRIC POWER COMPANY	
	27	CO-GENERATION	NEW	10.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	COGENERATION NO. 1	NEW	100.0	FOSSIL STM	REFUSE	NONE	CA/LOS ANGELES DEPT OF WATER AND POWER	
	27	LUCERNE VALLEY NO. 1-3	NEW	195.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	WARNER VALLEY NO. 1	NEW	250.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	UT/NEVADA POWER COMPANY	12
	28	COGENERATION	NEW	25.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	INDUSTRIAL COGEN	NEW	140.0	COMB TURB	NAT GAS	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	REPOWER 330MW CLASS	NEW	340.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	REPOWER 330MW UNIT	NEW	90.0	COMB TURB	NO. 2 OIL	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	SOLID WASTE NO. 3	NEW	40.0	FOSSIL STM	REFUSE	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	30	HUNTER (EMERY) NO. 4	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	UT/UTAH POWER & LIGHT COMPANY	
JJLY	25	COLSTRIP NO. 4	NEW	700.0	FOSSIL STM	BITUMINOUS	NONE	MT/MONTANA POWER COMPANY; THE	
	25	EUGENE STEAM PLANT NO. 2	RETIRE	10.0	FOSSIL STM	REFUSE	NO. 4 OIL	OR/EUGENE WATER & ELECTRIC BOARD (OR)	
	28	OIL FIELD COGEN	NEW	280.0	COMB TURB	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	SMALL HYDRO	NEW	30.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
SEPT.	25	COUGAR NO. 3	NEW	40.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	25	STRUBE NO. 1	NEW	5.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	28	GEYSERS NO. 20	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
NOV.	25	UNSITED CT NO. 1	NEW	75.0	COMB TURB	UNREPORTED	UNREPORTED	MT/MONTANA POWER COMPANY, THE	
DEC.	27	LUCERNE VALLEY NO. 4-6	NEW	195.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	30	A J WILEY	NEW	86.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
1986									
JAN.	28	SMALL HYDRO	NEW	50.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
MAY	26	PALO VERDE NO. 3	NEW	1270.0	NUC (PWR)	URANIUM	NONE	AZ/ARIZONA PUBLIC SERVICE COMPANY	2
JUNE	25	HANFORD(WNP4) NO. 4	NEW	1250.0	NUC (PWR)	URANIUM	NONE	WA/WASHINGTON PUBLIC POWER SUPPLY SYS	
	25	SATSOP(WNP3) NO. 3	NEW	1240.0	NUC (PWR)	URANIUM	NONE	WA/WASHINGTON PUBLIC POWER SUPPLY SYS	40
	27	CO-GENERATION	NEW	3.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	GEOTHERMAL NO. 2-3	NEW	44.0	GEOTHERMAL	NAT STEAM	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	LUCERNE VALLEY NO. 7-9	NEW	195.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	WIND NO. 2	NEW	2.0	WINDMILL	WIND	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	H. ALLEN NO. 1	NEW	500.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	NV/NEVADA POWER COMPANY	11
	27	WARNER VALLEY NO. 2	NEW	250.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	UT/NEVADA POWER COMPANY	12
	28	COGENERATION	NEW	50.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	INDUSTRIAL COGEN	NEW	50.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
JJLY	24	SOUTHEAST NO. 2	NEW	470.0	FOSSIL STM	BITUMINOUS	NONE	CO/PUBLIC SERVICE CO OF COLORADO	26
	27	INTERMOUNTAIN NO. 1	NEW	750.0	FOSSIL STM	BITUMINOUS	NONE	UT/LOS ANGELES DEPT OF WATER AND POWER	7
	28	GEYSERS NO. 19	NEW	55.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	GEYSERS NO. 21	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	MONTEZUMA NO. 1	NEW	800.0	FOSSIL STM	BITUMINOUS	OIL	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	CASCADE	NEW	10.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
	30	DIKE	NEW	70.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
AUG.	27	BALSAM MEADOW	NEW	200.0	HYDRO	WATER	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	DINKEY CR.	NEW	120.0	HYDRO	WATER	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
SEPT.	24	ALAMOSA NO. 4-6	RETIRE	17.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CO/PUBLIC SERVICE CO OF COLORADO	
	26	SANTA FE NO. 1-2	RETIRE	11.0	FOSSIL STM	NAT GAS	NO. 2 OIL	NM/PUBLIC SERVICE CO OF NEW MEXICO	
OCT.	30	GUFFEY	NEW	19.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
	30	SWAN FALLS	NEW	90.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	

AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I----- PRIMARY	FUEL -----1 ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1986									
NOV.	25	COMBUSTION TURBINE NO. 1	NEW	25.0	COMB TURB	UNREPORTED	UNREPORTED	MT/MONTANA POWER COMPANY, THE	
DEC.	24	BLUE MESA NO. 3	NEW	55.0	HYDRO	WATER	NONE	CO/USBR UPPER COLORADO REGION	
	24	DOMINQUEZ NO. 1	NEW	18.0	HYDRO	WATER	NONE	CO/USBR UPPER COLORADO REGION	
	27	LUCERNE VALLEY NO. -12	NEW	195.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
1987									
JAN.	28	SMALL HYDRO	NEW	50.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
FEB.	25	MCNARY PH 2 NO. 15	NEW	129.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
APRIL	24	PAWNEE NO. 2	NEW	170.0	FOSSIL STM	BITUMINOUS	NONE	CO/PUBLIC SERVICE CO OF COLORADO	25
MAY	25	MCNARY PH 2 NO. 16	NEW	129.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	28	THERMAL NO. 1	NEW	125.0	FOSSIL STM	BITUMINOUS	UNREPORTED	NY/SIERRA PACIFIC POWER COMPANY	
JUNE	25	SATSOP(WNP5) NO. 5	NEW	1240.0	NUC (PWR)	URANIUM	NONE	WA/WASHINGTON PUBLIC POWER SUPPLY SYS	41
	26	SPRINGERVILLE NO. 2	NEW	50.0	FOSSIL STM	SUB-BITUM	NONE	AZ/TUCSON ELECTRIC POWER COMPANY	
	27	CO-GENERATION	NEW	3.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	GEOTHERMAL NO. 4	NEW	35.0	GEOTHERMAL	NAT STEAM	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	HARBOR NO. 1	RETIRE	72.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/LOS ANGELES DEPT OF WATER AND POWER	
	27	LUCERNE VALLEY NO. -16	NEW	260.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	WIND NO. 3	NEW	5.0	WINDMILL	WIND	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	H. ALLEN NO. 2	NEW	500.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	NV/NEVADA POWER COMPANY	11
	28	COGENERATION	NEW	50.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	GEOTHERMAL NO. 22	NEW	55.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
JULY	25	MCNARY PH 2 NO. 17	NEW	125.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
	25	CRESTON NO. 1	NEW	500.0	FOSSIL STM	BITUMINOUS	NONE	WA/WASHINGTON WTR PWR CO, THE	
	27	INTERMOUNTAIN NO. 2	NEW	50.0	FOSSIL STM	BITUMINOUS	NONE	UT/LOS ANGELES DEPT OF WATER AND POWER	7
	28	MONTEZUMA NO. 2	NEW	800.0	FOSSIL STM	BITUMINOUS	OIL	CA/PACIFIC GAS & ELECTRIC COMPANY	
SEPT.	25	MCNARY PH 2 NO. 18	NEW	125.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
NOV.	25	UNSIDED CT	NEW	225.0	COMB TURB	UNREPORTED	UNREPORTED	MT/MONTANA POWER COMPANY, THE	
	25	MCNARY PH 2 NO. 19	NEW	125.0	HYDRO	WATER	NONE	OR/U. S. ARMY CORPS OF ENGINEERS	
DEC.	24	RAY D NIXON NO. 2	NEW	200.0	FOSSIL STM	BITUMINOUS	NONE	CO/COLORADO SPRINGS, CITY OF	
	27	LUCERNE VALLEY NO. -20	NEW	250.0	COMB TURB	NO. 2 OIL	NAT GAS	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
1988									
JAN.	27	SAN LUIS OBISPO	NEW	5.0	HYDRO	WATER	NONE	CA/CA. STATE DEPT. OF WATER RESOURCES	
	28	MISC. RETIREMENTS	RETIRE	170.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	SMALL HYDRO	NEW	50.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	30	SF PAYETTE GP	NEW	13.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
APRIL	24	UNSIDED CENTRAL	NEW	170.0	FOSSIL STM	BITUMINOUS	NONE	CO/PUBLIC SERVICE CO OF COLORADO	27
MAY	26	PERSON NO. 1-2	RETIRE	36.0	FOSSIL STM	NAT GAS	NO. 2 OIL	NM/PUBLIC SERVICE CO OF NEW MEXICO	
JUNE	26	ESCALANTE NO. 2	NEW	210.0	FOSSIL STM	BITUMINOUS	NONE	NM/PLAINS ELEC GEN & TRANS COUP, INC.	
	27	CO-GENERATION	NEW	3.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	HARBOR NO. 2	RETIRE	67.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/LOS ANGELES DEPT OF WATER AND POWER	
	27	WIND NO. 4	NEW	10.0	WINDMILL	WIND	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	H. ALLEN NO. 3	NEW	500.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	NV/NEVADA POWER COMPANY	11
	28	COGENERATION	NEW	50.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	FOSSIL NO. 3	NEW	300.0	FOSSIL STM	BITUMINOUS	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	GEOTHERMAL NO. 23	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC CO	
	28	GEOTHERMAL NO. 24	NEW	110.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC CO	

PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989

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AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
TO THE DEPARTMENT OF ENERGY

WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)

(INCLUDES ONLY CONTIGUOUS U.S.)

SCHED MONTH	REGION	UNIT NAME	STATUS	MW	UNIT TYPE	I PRIMARY	FUEL ALTERNATE	STATE/SYSTEM NAME	NOTE NO.
1988									
JUNE	30	WELLINGTON NO. 1	NEW	500.0	FOSSIL STM	BITUMINOUS	NONE	UT/UTAH POWER & LIGHT COMPANY	
JULY	27	GRAYSON NO. 3	DERATE TO	21.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/GLENDALE PUBLIC SERVICE DEPT (CA)	7
	27	INTERMOUNTAIN NO. 3	NEW	750.0	FOSSIL STM	BITUMINOUS	NONE	UT/LOS ANGELES DEPT OF WATER AND POWER	
	30	NF PAYETTE UD	NEW	106.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
SEPT.	27	CALIFORNIA COAL NO. 1	NEW	500.0	FOSSIL STM	BITUMINOUS	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	33
OCT.	24	SOUTHWEST(UNSITE) NO. 1	NEW	400.0	FOSSIL STM	BITUMINOUS	NONE	CO/COLORADO-UTE ELEC ASSN, INC	6
	27	MAGNOLIA NO. 4	RETIRE	28.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/BURBANK PUBLIC SERVICE DEPARTMENT	
NOV.	25	UNSITE CT NO. 2	NEW	25.0	COMB TURB	UNREPORTED	UNREPORTED	MT/MONTANA POWER COMPANY, THE	
DEC.	24	DOMINQUEZ NO. 2-5	NEW	500.0	PUMP HYDRO	WATER	NONE	CO/USBR UPPER COLORADO REGION	
	26	GLEN CANYON NO. 10	NEW	125.0	HYDRO	WATER	NONE	AZ/USBR UPPER COLORADO REGION	
	26	GLEN CANYON NO. 9	NEW	125.0	HYDRO	WATER	NONE	AZ/USBR UPPER COLORADO REGION	
	26	ALGODONES NO. 1-3	RETIRE	45.0	FOSSIL STM	NAT GAS	NO. 6 OIL	NM/PLAINS ELEC GEN & TRANS COOP, INC	
1989									
JAN.	25	CRESTON NO. 2	NEW	500.0	FOSSIL STM	BITUMINOUS	NONE	WA/WASHINGTON WTR PWR CO, THE	
	28	HOT WATER GEOTH	NEW	50.0	GEOTHERMAL	NAT STEAM	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	MISC. RETIREMENTS	RETIRE	180.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	SMALL HYDRO	NEW	50.0	HYDRO	WATER	NONE	CA/PACIFIC GAS & ELECTRIC COMPANY	
	30	NF PAYETTE LD	NEW	62.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
	30	SF PAYETTE BB	NEW	13.0	HYDRO	WATER	NONE	ID/IDAHO POWER COMPANY	
APRIL	24	WYOMING COAL NO. 1	NEW	470.0	FOSSIL STM	BITUMINOUS	NONE	WY/PUBLIC SERVICE CO OF COLORADO	28
MAY	26	CORONADO NO. 3	NEW	350.0	FOSSIL STM	SUB-BITUM	NONE	AZ/SALT RIVER PROJ AGRI IMP PWR DIST	
	26	UNSITE CT NO. 1	NEW	50.0	COMB TURB	NO. 2 OIL	NONE	AZ/ARIZONA PUBLIC SERVICE COMPANY	
	26	PUMPED STORAGE NO. 1-2	NEW	300.0	PUMP HYDRO	WATER	NONE	NM/PUBLIC SERVICE CO OF NEW MEXICO	
	28	THERMAL NO. 2	NEW	125.0	FOSSIL STM	BITUMINOUS	UNREPORTED	NV/SIERRA PACIFIC POWER COMPANY	
JUNE	27	CO-GENERATION	NEW	4.0	UNREPORTED	WASTE HEAT	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	11
	27	HARBOR NO. 4	RETIRE	86.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/LOS ANGELES DEPT OF WATER AND POWER	
	27	HARBOR NO. 5	RETIRE	86.0	FOSSIL STM	NO. 6 OIL	NAT GAS	CA/LOS ANGELES DEPT OF WATER AND POWER	
	27	WIND NO. 5	NEW	10.0	WINDMILL	WIND	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	
	27	H. ALLEN NO. 4	NEW	500.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	NV/NEVADA POWER COMPANY	
	27	WHITE PINE NO. 1	NEW	450.0	FOSSIL STM	BITUMINOUS	NO. 6 OIL	UT/NEVADA POWER COMPANY	
	28	COGENERATION	NEW	50.0	UNREPORTED	UNREPORTED	UNREPORTED	CA/PACIFIC GAS & ELECTRIC COMPANY	
	28	FOSSIL NO. 4	NEW	800.0	FOSSIL STM	BITUMINOUS	OIL	CA/PACIFIC GAS & ELECTRIC COMPANY	
JULY	25	THERMAL NO. 1	NEW	330.0	FOSSIL STM	BITUMINOUS	NONE	MT/MONTANA POWER COMPANY, THE	7
	27	INTERMOUNTAIN NO. 4	NEW	750.0	FOSSIL STM	BITUMINOUS	NONE	UT/LOS ANGELES DEPT OF WATER AND POWER	
SEPT.	27	CALIFORNIA COAL NO. 2	NEW	500.0	FOSSIL STM	BITUMINOUS	NONE	CA/SOUTHERN CALIFORNIA EDISON COMPANY	33
DEC.	30	DIAMOND FORK CUP	NEW	476.0	HYDRO	WATER	NONE	UT/USBR UPPER COLORADO REGION	
	30	FLAMING GORGE NO. 4	NEW	40.0	HYDRO	WATER	NONE	UT/USBR UPPER COLORADO REGION	

WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)

- 1 UNIT DERATED 15 MW FOR SCRUBBER.
- 2 JOINTLY OWNED BY ARIZONA PUBLIC SERVICE, 370 MW; SALT RIVER PROJECT, 297 MW; SOUTHERN CALIFORNIA EDISON COMPANY, 201 MW; EL PASO ELECTRIC COMPANY, 201 MW; PUBLIC SERVICE COMPANY OF NEW MEXICO, 129 MW; LOS ANGELES DEPARTMENT OF WATER AND POWER, 72 MW.
- 3 JOINTLY OWNED BY BASIN ELECTRIC POWER COOPERATIVE, 210 MW; TRI-STATE G & T ASSOCIATION, 120 MW; MISSOURI BASIN MUNICIPAL POWER AGENCY, 85 MW; LINCOLN ELECTRIC SYSTEM, 65 MW; HEARTLAND CONSUMER'S POWER AGENCY, 15 MW; WYOMING MUNICIPAL POWER AGENCIES, 5 MW.
- 4 OWNED BY KINGS RIVER CONSERVATION DISTRICT. OUTPUT TO BE SOLD TO CALIFORNIA DEPARTMENT OF WATER RESOURCES.
- 5 JOINTLY OWNED BY COLORADO-UTE ELECTRIC ASSOCIATION, 116 MW; SALT RIVER PROJECT, 116 MW; TRI-STATE G & T ASSOCIATION, 96 MW; PLATTE RIVER POWER AUTHORITY, 72 MW.
- 6 POTENTIAL JOINT PARTICIPATION: COLORADO-UTE ELECTRIC ASSOCIATION, 220 MW; UNCOMMITTED, 180 MW.
- 7 OWNERSHIP: LOS ANGELES DEPT OF WATER AND POWER, 256 MW; CITY OF ANAHEIM, 77 MW; CITY OF BURBANK, 13 MW; CITY OF GLENDALE, 13 MW; CITY OF PASADENA, 26 MW; CITY OF RIVERSIDE, 51 MW; INTERMOUNTAIN CONSUMER POWER ASSOC., 128 MW; UTAH POWER AND LIGHT CO., 188 MW.
- 8 THIS UNIT UPDATED 3 MW.
- 9 OWNERSHIP: MONTANA POWER CO., 210 MW; PILGET SOUND POWER AND LIGHT CO., 175 MW; PORTLAND GENERAL ELECT. CO., 70 MW; WASHINGTON WATER POWER CO., 105 MW; PACIFIC POWER AND LIGHT CO., 70 MW; BASIN ELECT. POWER COOP., 70 MW.
- 10 PARTICIPATION : CALIFORNIA DEPT. OF WATER RESOURCES, 170 MW; NEVADA POWER CO., 80 MW.
- 11 OWNERSHIP: PACIFIC GAS & ELECT. CO., 230 MW; SOUTHERN CALIFORNIA EDISON CO., 230 MW; NEVADA POWER CO., 40 MW.
- 12 OWNERSHIP: NEVADA POWER CO., 63 MW; PACIFIC GAS & ELECT. CO., 63 MW; SOUTHERN CALIFORNIA EDISON CO., 63 MW; CITY OF ST. GEORGE, UT, 63 MW.
- 13 OWNER: NEVADA IRRIGATION DIST.
- 14 THIS UNIT DERATED 2 MW.
- 15 FIRM POWER FOLLOWS INITIAL OPERATION BY 2 MONTHS.
- 16 UNIT UPDATED 15 MW SUMMER, 32 MW WINTER RATING.
- 17 CONVERSION TO COMBINED CYCLE - CT PORTION DERATED 19 MW SUMMER, 26 MW WINTER.
- 18 DERATED 38 MW TO 0 DEPENDABLE CAPACITY.
- 19 TEMPORARY SHUTDOWN FOR REPOWERING IN JUNE 1985.
- 20 UNIT DERATED 36 MW.
- 21 UNITS DERATED TOTAL OF 36 MW.

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)

- 22 OWNERSHIP: PORTLAND GENERAL ELECT. CO., 424 MW; IDAHO POWER CO., 53 MW; PACIFIC NORTHWEST GENERATING CO., 53 MW.
- 23 OWNERSHIP: PORTLAND GENERAL ELECT. CO., 504 MW; PACIFIC POWER & LIGHT CO., 315 MW; PUGET SOUND POWER & LIGHT CO., 252 MW;
; PACIFIC NORTHWEST GENERATING CO., 126 MW; UNCOMMITTED, 63 MW.
- 24 UNIT UPRATED 72 MW SUMMER, 106 MW WINTER.
- 25 POTENTIAL JOINT PARTICIPATION: PUBLIC SERVICE CO. OF COLORADO, 350MW, UNCOMMITTED, 120 MW.
- 26 POSSIBLE JOINT PARTICIPATION: PUBLIC SERVICE CO. OF COLORADO, 380 MW., ARPA, 40 MW.
- 27 POTENTIAL JOINT PARTICIPATION: PUBLIC SERVICE CO. OF COLORADO, 250 MW, UNCOMMITTED, 220 MW.
- 28 POSSIBLE JOINT PARTICIPATION: PUBLIC SERVICE CO. OF COLORADO, 200 MW, UNCOMMITTED, 270 MW.
- 29 UNIT DERATED 12 MW (ADDITION OF SO2 EQUIP).
- 30 PARTICIPATION UNIT UNTIL 5-83: SALT RIVER PROJ., 245 MW, LOS ANGELES DEPT. OF WATER & POWER, 105 MW.
- 31 FULL CAPACITY EXPECTED WITH FULL RESERVOIR T/84. UNIT CAPABILITY INCREASED 19.8 MW SUMMER, 61 MW WINTER.
- 32 OWNERSHIP: SIERRA PACIFIC POWER CO., 125 MW AND IDAHO POWER CO., 125 MW.
- 33 OWNERSHIP: SOUTHERN CALIFORNIA EDISON CO., 250 MW; CITY OF ANAHEIM, 15 MW; CITY OF BURBANK, 9 MW; CALIF. DEPT. OF WATER
RES., 44 MW; CITY OF COLTON, 3 MW; CITY OF GLENDALE, 9 MW; IMPERIAL IRRIGATION DIST., 12 MW; LOS ANGELES DEPT. OF
WATER & POWER, 102 MW; NEVADA POWER CO., 37 MW; CITY OF PASADENA, 9MW; CITY OF RIVERSIDE, 12 MW.
- 34 UNIT UPRATED 31 MW SUMMER, 38 MW WINTER.
- 35 UNIT UPRATED 56 MW.
- 36 OWNERSHIP: SOUTHERN CALIF. EDISON CO., 880 MW, AND SAN DIEGO GAS & ELECT. CO., 220 MW.
- 37 UNIT UPRATED 18 MW.
- 38 PROJECT CAPACITY INCREASED 39 MW.
- 39 PROJECT CAPACITY INCREASED 4 MW.
- 40 PARTICIPATION: BONNEVILLE POWER ADMIN., 868 MW; PORTLAND GENERAL ELECT. CO., 124 MW; PACIFIC POWER & LIGHT CO., 124 MW;
PUGET SOUND POWER & LIGHT CO., 62 MW, AND WASHINGTON WATER POWER CO., 62 MW.
- 41 PARTICIPATION: PUBLIC AGENCIES, 1116 MW, AND PACIFIC POWER & LIGHT CO., 124 MW.
- 42 UNIT UPRATED 12 MW.
- 43 UNIT UPRATED 11 MW.
- 44 PLANNED CAPACITY OF 2.5 MW.

FOOTNOTES FOR PROPOSED GENERATING CAPACITY CHANGES FOR THE PERIOD 1980 THRU 1989
AS REPORTED APRIL 1, 1980 BY THE REGIONAL ELECTRIC RELIABILITY COUNCILS
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WESTERN SYSTEMS COORDINATING COUNCIL (WSCC)

- 45 STEAM SUPPLY FROM PLUTONIUM PRODUCTION REACTOR.
- 46 UNITS UPGRATED 10 MW- SUMMER CAPABILITY ONLY.

Updated Completion Schedules

of

Near-Term Nuclear Units

Since the preparation of the data reported by the Reliability Councils in April 1980, the scheduled completion dates of some nuclear units have changed, and several operating licenses have been granted by the Nuclear Regulatory Commission. The licenses that have been issued are:

1. Sequoyah 1 low power license
2. Salem 2 low power license
3. North Anna 2 full power license

Table A-1 lists nuclear units which were scheduled for initial operation in 1980 and 1981, according to data in the Reliability Council reports, 1/ and shows the currently scheduled date of initial operation.

1/ ERA-411 Long Range Coordinated Planning Report filed with ERA on April 1, 1980 by each of the nine Regional Electric Reliability Councils.

Table A-1
Updated Completion Schedules
Near-Term New Nuclear Units

<u>Unit</u>	<u>Reliability Council</u>	<u>Scheduled Operating Date</u>	
		<u>Table H</u>	<u>Current</u>
Arkansas Nuc. 2	SWPP	March 1980	March 1980
Sequoyah 1	SERC	June 1980	Dec. 1980
North Anna 2	SERC	July 1980	Dec. 1980
Farley 2	SERC	Sept. 1980	Apr. 1981
Salem 2	MAAC	Oct. 1980	Jan. 1981
LaSalle County 1	MAIN	Dec. 1980	June 1981
McGuire 1	SERC	Dec. 1980	Apr. 1981
V.C. Summer 1	SERC	Dec. 1980	May 1981
Zimmer 1	ECAR	Jan. 1981	June 1982
Diablo Canyon 1	WSCC	Feb. 1981	May 1981
Shoreham 1	NPCC	May 1981	Dec. 1982
Sequoyah 2	SERC	June 1981	Sept. 1981
Comanche Peak 1	ERCOT	Aug. 1981	June 1982
Diablo Canyon 2	WSCC	Aug. 1981	Mar. 1982
Watts Bar 1	SERC	Sept. 1981	Aug. 1982
San Onofre 2	WSCC	Oct. 1981	Dec. 1981
LaSalle County 2	MAIN	Dec. 1981	June 1982

Generating Unit Construction Schedules

The purpose of this Appendix is to provide selected information on generating unit construction schedules, to the extent that specific data are available.

The construction of a generating unit, once a judgment has been made that a unit is needed at a specified place and at a specified time, is an example of the management function. It involves implementation of plans and ideas over a period of time to produce a desired physical product. Completion of the project involves general and detailed plans and schedules; dealing with regulatory authorities, with the public, with vendors, architects, engineers, contractors, the construction trader, unions and other groups; coping with vagaries of the weather; changing plans to accommodate economic conditions, delays in delivery of materials and equipment, failures of materials during and after installation; mistakes in judgment; and other contingencies. In spite of all the variations in the numerous factors affecting the final outcome, it is possible to establish some general frame of reference that indicates approximate construction time requirements. The schedules vary with the type of unit being constructed, its size and its location. The Economic Regulatory Administration has not made a study of the myriad of details involved in construction scheduling. However, it is considered appropriate to provide, in this Appendix, information on construction schedules obtained from several sources. The intent is only to compile for the benefit of the public information from several that is relevant to the topic of this report and would not otherwise be available in a single publication.

The construction schedule data provided in this Appendix are to be regarded only as specific instances. They may or may not be typical or average for a given type or size of unit. However, it is believed that the data are representative, in a general way, of generating unit construction planning and schedules. Hydroelectric plants, of course, present special problems in each instance because design and construction are strongly affected by geographical features.

Pages 2 through 7 present general views of construction schedules. The remainder of this Appendix consists of data concerning specific generating units, excerpted or reproduced from reports filed, by the utilities concerned, with various government agencies. The dates shown in the schedules may or may not be the dates on which the activities described were completed. Frequently, it has been found, actual construction lags behind the schedule projected when plans are first discussed.

CRITICAL MILESTONES 1/

<u>MILESTONES</u>	<u>NUCLEAR PLANT</u>	<u>YEARS TO COMMERCIAL STARTUP</u>
1	Engineering initiation	14
2	NSSS 2/ procurement	13
3	Filing with State Siting Board	12
4	Reactor vessel fabrication and Site certification and engineering restart	9
5	Construction initiation	7
6	Commercial start-up	0

COAL-FIRED PLANT

1	Engineering initiation	11
2	Filing with State Siting Board	9
3	Boiler & turbine-generator ordered	7
4	Site certification and engineering restart	6
5	Construction initiation	5
6	Commercial start-up	0

1/ From Report of Member Electric Systems of the New York Power Pool and the Empire State Electric Energy Research Corporation pursuant to Section 5-112 of the Energy Law of New York State.
1980 Volume 1, Exhibit 10, Table 10-2.

2/ NSSS= Nuclear Steam Supply System

TYPICAL LEAD TIME REQUIREMENTS ^{1/}

* EMERGENCY SITUATION WOULD EXTEND THIS PERIOD

^{1/} Reproduced from Report of Member Electric Systems of the New York Power Pool and the Empire State Electric Energy Research Corporation

Pursuant to Article III, Section 5-112 of the Energy Law of New York State 1979 Volume 2, page 8

MILESTONES

NUCLEAR THERMAL PLANT

<u>MILESTONE 1</u>	-	114 months	Regional selection of unit
<u>MILESTONE 2</u>	-	102 months	Following actions completed; (a) NSSS contract awarded (b) A. E. <u>1/</u> selected (c) Site selected
<u>MILESTONE 3</u>	-	98 months	Project becomes firm system resource after following actions completed: (a) State site application and Environmental Report filed (b) Preliminary Safety Analysis Report filed
<u>MILESTONE 4</u>	-	90 months	Site certified by State
<u>MILESTONE 5</u>	-	86 months	Construction Permit or Limited Work Authorization issued by AEC <u>2/</u>
<u>MILESTONE 6</u>	-	80 months	Construction Permit if preceded by Limited Work Authorization
<u>MILESTONE 7</u>	-	66 months	Major building construction started
<u>MILESTONE 8</u>	-	60 months	Containment erection started
<u>MILESTONE 9</u>	-	34 months	Setting of NSSS components and T-G auxiliary equipment initiated
<u>MILESTONE 10</u>	-	27 months	Final Safety Analysis Report and Environmental Report
<u>MILESTONE 11</u>	-	6 months	Operating License issued by AEC

From: Pacific Northwest Utilities Conference Committee
West Group Forecast of Power Loads and Resources
July 1976-June 1987
Issued March 1, 1976

1/ A.E. = Architect-Engineer

2/ AEC = Atomic Energy Commission (has been replaced by Nuclear Regulatory Commission)

FIGURE I-4
MILESTONES
NUCLEAR THERMAL PLANT

PRECONSTRUCTION MILESTONES

<u>MILESTONE 0</u>	130 months	(Oregon only) Notice of Intent filed with state
<u>MILESTONE 1</u>	126 months	Regional selection of unit (Oregon only) Application for Site Certificate filed
<u>MILESTONE 2</u>	114 months	Following Actions completed: (a) NSSS contract awarded (b) AE selected (c) (Except Oregon) Site selected
<u>MILESTONE 3</u>	110 months	Project becomes firm resource after following actions completed: (a) Environmental Report filed (b) Preliminary Safety Analysis Report filed (c) (Except Oregon) State site application filed
<u>MILESTONE 4</u>	102 months	Site certified by state
<u>MILESTONE 5</u>	98 months	Construction Permit or Limited Work Authorization issued by NRC

MILESTONES

COAL-FIRED THERMAL PLANTS

<u>MILESTONE 1</u>	-	62 Months	-	Final Site Selection
<u>MILESTONE 2</u>	-	58 Months	-	Boiler and Turbine-Generator Ordered
<u>MILESTONE 3</u>	-	52 Months	-	Environmental and Siting Permits, Licenses, etc.
<u>MILESTONE 4</u>	-	50 Months	-	Start Site Preparation
<u>MILESTONE 5</u>	-	44 Months	-	Start Construction
<u>MILESTONE 6</u>	-	32 Months	-	Start Boiler Steel Erection
<u>MILESTONE 7</u>	-	26 Months	-	Drum Delivered
<u>MILESTONE 8</u>	-	16 Months	-	Turbine, Rotor & Boiler Deliveries Completed
<u>MILESTONE 9</u>	-	5 Months	-	Hydro Test
<u>MILESTONE 10</u>	-	4 Months	-	Boil Out
<u>MILESTONE 11</u>	-	3 Months	-	Turbine Roll

From: Pacific Northwest Utilities Conference Committee
West Group Forecast of Power Loads and Resources
July 1976-June 1987
Issue March 1, 1976

FIGURE I-3
MILESTONES
COAL FIRED THERMAL PLANT

PRECONSTRUCTION MILESTONES

<u>MILESTONE 0</u>	80 months	(Oregon only) Notice of Intent filed with state
	76 months	(Oregon only) Application for Site Certificate filed
<u>MILESTONE 1</u>	62 months	Final site selection
<u>MILESTONE 2</u>	58 months	Boiler and Turbine Generator ordered
<u>MILESTONE 3</u>	52 months	Environmental and Siting Permits, Licenses, etc., issued
<u>MILESTONE 4</u>	50 months	Start site preparation
<u>MILESTONE 5</u>	48 months	Start construction

This page has been reproduced from
Pacific Northwest Utilities Conference Committee
West Group Forecast of Power Loads and Resources
July 1980 - June 1991 dated March 1980

The following information (pp. 9 and 10 of this Appendix) has been abstracted from the Environmental Report for Indian River Power Station, Unit No. 4 (located in Sussex County, Delaware).

Fossil-Fueled - 400 MW(e)

Vol. I - 1976

Delmarva Power & Light Co.

SITE PREPARATION

Work Schedule

Figure 1.5-1 is a bar chart presenting the schedule of major construction phases relative to the construction of Unit No. 4 at Indian River. These phases are as follows:

<u>Activity</u>	<u>Scheduled Start Date</u>
Field Mobilization	September 15, 1975
Earthwork	March 1, 1976
Circulating Water System	March 1, 1976
Concrete Construction	March 1, 1976
Site Improvements	May 1, 1976
Electrical Equipment	August 2, 1976
Structural Steel	January 3, 1977
Station Building, Building Service	March 7, 1977
Switchyard	April 4, 1977
Steam Generator	May 5, 1977
Auxiliary Equipment	June 6, 1977
Piping Systems	June 6, 1977
Turbine Generator	September 5, 1977
Insulation and Lagging	May 1, 1978
Instrumentation and Control	June 5, 1978

The construction schedule indicates Indian River Unit No. 4 will require approximately 39 months to complete. ^{1/} The estimated cost for this project, not including interest during construction, is \$188 million.

1.5.2 Construction Activities and Employment

Site survey and soil investigation began in March 1974. Field mobilization for this facility began in September 1975 with construction scheduled to start in March 1976, pending receipt of necessary permits. A general estimate of laydown area for construction of this facility is nine acres. Approximately six acres of proposed laydown area is the existing bottom ash disposal area. The balance of laydown area is adjacent to the existing coal storage. A sedimentation and erosion control plan has been prepared and will be implemented concurrent with usage of the area.

Manpower studies for planning purposes indicate the peak work force required to construct this project will be approximately 800 persons. The qualified local residents (Sussex and Kent counties) will be afforded the opportunity to be employed in the construction of this plant, with the State of Delaware as the primary reservoir for both construction and operating employees. When existing sources in the State of Delaware cannot supply the needs or particular specialties, labor from the neighboring states (Maryland, Pennsylvania, and New Jersey) will be employed.

^{1/} As of January 1, 1980, the scheduled completion date is September 1980. The utility states the delay is due to problems in meeting regulatory requirements.

CONSTRUCTION SCHEDULE

DELMARYA POWER & LIGHT COMPANY

CLIENT
INDIAN RIVER UNIT #4

PROJECT

GILBERT ASSOCIATES, INC.

READING, PENNSYLVANIA

AUGUST 28,

19 75

PREPARED BY J. F. WARD/A. N. BENTLEY

APPROVED BY N. C. SIMONSON

CONSTRUCTION START

CRUM IN PLACE

INITIAL POLL
CHECKED
REVIEWED

FIGURE 1.5-1
CONSTRUCTION SCHEDULE
DELMARYA POWER & LIGHT COMPANY
INDIAN RIVER

The following information (pp. 12-14 of this Appendix) has been abstracted from

Environmental Impact Analysis of Coyote Station
(located in Mercer County, North Dakota)
Vol. 1 - August 1976

Prepared for Otter Tail Power Company, Minnkota Power Cooperative, Inc., Montana-Dakota Utilities Co., Northwestern Public Service Co., Minnesota Power and Light Co.

Coyote Station is a lignite-fired electric generating unit, of 440 Mw nominal capacity and 456 Mw gross capacity.

2.6 Construction

Construction of Coyote Station, estimated to cost \$390 million, will begin in March 1977 with the water supply system. Construction of the pipeline, intake-discharge structure, and surge pond will continue through November 1977, a total of nine months. The evaporation pond will be constructed from February 1979 to October 1979. The testing of the complete water system and any subsequent repair, if required, will start in April 1978 and will continue through November 1980. Coyote Station will be complete and ready for operation in May 1981. 1/

The number of workers necessary for construction will vary over the five-year construction period. Construction is estimated to peak in mid-1980. A peak of 930 workers, listed in Table 2.6-1, will build Coyote Station and the associated water system.

Construction of Coyote Station will follow normal acceptable construction methods. A program of this magnitude begins with orderly development of the following requirements:

- (1) Utility services, such as electric light and power; water for industrial and potable use; sanitary facilities; telephone communications; heating and ventilation; compressed air; etc.
- (2) Temporary construction office facilities.
- (3) Temporary enclosed and open laydown storage facilities.
- (4) Delivery of construction equipment by overland truck, rail or a combination of both.
- (5) Various types of construction equipment and vehicles, such as earth-moving equipment, concrete and materials hauling equipment, cranes, rigging equipment, welding equipment, trucks and other vehicles, tools, and other related types of construction equipment.
- (6) Combined temporary office and shop spaces for various subcontractors.

1/ As of January 1980 this completion date was still scheduled.

- (7) Temporary and permanent access roads.
- (8) Railroad spur.
- (9) Settling basins to collect storm runoff.
- (10) Temporary and permanent parking areas.
- (11) Permanent perimeter fencing and security facilities.
- (12) Safety and first aid facilities in strict compliance with regulations of the Occupational Safety and Health Act.
- (13) Covered and protected storage facilities for substances such as oils, greases, solvents, cleaning agents, paints, thinners, etc.
- (14) Adequate fire protection systems and equipment for use during construction, with permanent facilities to be incorporated in the overall plant.
- (15) Suppression of noise and dust.
- (16) Removal of solid refuse from plant site during construction and plant operation.

TABLE 2.6-1
ESTIMATED CONSTRUCTION WORK FORCE
PLANT AND WATER SUPPLY SYSTEM*

Boilermakers	175
Carpenters	79
Cement Masons	31
Electricians	182
Iron Workers	139
Laborers	105
Millwrights	29
Operating Engineers	72
Painters	24
Pipefitters	132
Teamsters	43
Miscellaneous (Sheet Metal Workers, Insulators, Guards)	43
Non-Manual	144

*Manpower quantities shown are peak values and may not occur simultaneously.

The following page (p. 16 of this Appendix) has been reproduced from

Environmental Analysis
Robert Reid Generating Station
Steam Turbine Generation for Big Rivers Electric
Corporation (located in Webster County, Kentucky)
1974

Addition of either one or two steam turbine units at the existing Robert Reid Generating Station. The capacity of each unit installed will be between 190 Mw and 225 Mw.

— UNIT NO. 1
 - - - UNIT NO. 2

FIGURE 3-12
 ENGINEERING AND CONSTRUCTION SCHEDULE

The following information (through p. 18) has been abstracted from

Rocky Mountain Project
No. 2725-Georgia
Draft Environmental Impact Statement
Federal Power Commission Sept. 1975

Georgia Power Co. Pumped Storage Project
3 reversible 225 Mw pump turbine generating
units. Total plant capacity approximately
675 Mw

1.5 CONSTRUCTION PROCEDURES

Based on the Applicant's proposed construction schedule, the project should be completed in three and two-thirds years after commencement of actual on-site construction. The work force involved in the construction of the project would total about 500 workers, including carpenters, laborers, operation engineers, electricians, iron workers, truck drivers, and concrete finishers. Additionally, the Applicant and his contractor would have approximately 60 engineering and supervisory personnel. The Applicant plans to hire 50 percent of the 500-man work force locally. The majority of the remaining work force should relocate to the project area.

Construction procedures would require the excavation of about 4,500,000 cubic yards of earth material and about 5,200,000 cubic yards of rock material with about 70 percent being utilized in construction of the dams. Construction of the project would require about 45,000 cubic yards of concrete and 1,870 tons of steel reinforcing in the powerhouse, about 5,000 cubic yards of concrete, 118,000 pounds of structural steel, 4,500,000 cubic yards of earthfill, and 2,500,000 cubic yards of rockfill in the dam and spillway structures, and about 3,000 tons of high strength steel and 3,200 feet of concrete lining in the tunnel and penstocks. Figure 1-14 shows the work schedule.

ROCKY MOUNTAIN PROJECT SCHEDULE OF WORK

Figure 1-14. Construction Schedule

The following information (through p. 22) has been abstracted from

Solomon Gulch Project
No. 2742-Alaska
Draft Environmental Impact Statement
Prepared by Federal Power Commission
July 1977

Copper Valley Electric Association, Inc.
Glennallen, Alaska

Two 6 Mw hydroelectric generating units
55,596 Mwh average energy per year

1.4.6 Construction Workers' Camp

The Applicant proposes to build a construction workers' camp for personnel engaged in constructing the dam. The camp would consist of mobile trailer units. There would be 6 sleeping units, which would accommodate 8 occupants each; 2 washroom units; and 1 mess hall unit. The total cost of the camp, including move-in and move-out costs, would be \$400,000.

Personnel engaged in constructing the powerhouse would be quartered in Valdez, and those engaged in constructing the proposed 138-kV transmission line would stay in roadhouses along the Richardson Highway.

1.5 CONSTRUCTION PROCEDURES

Construction of the Solomon Gulch Project would not involve the relocation of any houses, industrial or commercial establishments, or transportation facilities. The work could be completed in about two years (Figure 1-7).

In order to build the main dam, two 56-inch-diameter steel pipes would first be embedded in an opening through the existing small concrete gravity dam. Both pipes would be extended downstream to the toe of the proposed dam, where each would be fitted with a butterfly valve. From this point one pipe would carry diverted flows back to the streambed during construction. The second pipe would be extended downslope, forming the penstock. Once the two pipes are embedded into place across the dam foundation area, construction of the dam would proceed.

The main body of the dam and the two dikes would be made up of rock fragments measuring up to 4 feet in diameter. Placement would be by end-dumping and sluicing with high pressure water. The upstream half of each embankment would be further compacted by rollers. A ten-foot-thick zone of smaller graded rock would then be placed against the upstream slope to form a base for an impervious one-foot-thick membrane of asphaltic concrete. The asphaltic concrete would be placed using conventional paving equipment.

Construction of the penstock, powerhouse, and transmission line would proceed concurrently with the construction of the dam.

The Applicant estimates that at no time would there be more than thirty construction workers on the job; and, for the most part, they would be recruited from unemployed Alaskans.

1-17

PREPARATION OF PLANS
AND SPECIFICATIONS

DAM ACCESS ROAD

DAM, SPILLWAY & PENSTOCK

POWERHOUSE

TRANSMISSION LINES AND
SUBSTATIONS

TURBINE - GENERATOR
INSTALLATION AND TESTING

Figure 1-7. Solomon Gulch Project Construction Schedule (Source: Applicant's Exhibit O)

1.8 COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS

The Applicant would be required to comply with all Federal, State, and local laws and regulations applicable to project development and operation. The status of compliance effort thus far is as follows:

On September 4, 1974, the State of Alaska, Division of Lands, issued a permit to Applicant allowing occupancy of State lands for the purpose of surveying, core drilling, and other studies, with the proviso that all equipment be airlifted to Solomon Lake, that no roads be constructed, and that surrounding areas not be disturbed.

On March 18, 1975, the Copper Valley Electric Association filed an application for a water right for power generation with the Department of Natural Resources, State of Alaska. The application seeks the right to divert 141.5 cfs from Solomon Lake.

An application for approval to alter a water course was submitted to the Department of Natural Resources, State of Alaska, by the Applicant on March 18, 1975.

On March 20, 1975, the Applicant filed an application with the State Department of Natural Resources requesting permission to purchase or lease 687.54 acres of State-owned lands within the proposed project boundary.

On July 7, 1976, the Applicant requested that the State of Alaska issue a Water Quality Certificate for the Solomon Gulch Project as required by the Federal Water Pollution Control Act, as amended in 1972.

On January 5, 1977, the Applicant submitted an application to the Bureau of Land Management for permission to construct the project transmission line across Federal lands administered by that agency.

The following information (through P. 26) has been abstracted from

Bad Creek Project
No. 2740 - South Carolina

Final Environmental Impact Statement
Federal Power Commission March 1977

Duke Power Company
Pumped Storage Hydro Plant
To store approximately 30,000 Mwh of energy
Four reversible pumping-generating units totalling 1,000 Mw

1.5 CONSTRUCTION PROCEDURES

Construction of the project would require relocation of a 0.4 mile segment of South Carolina Route 171. The segment would be relocated to the west side of the upper reservoir west dam. The Applicant's construction schedule is shown in Figure 1-10.

Improvements to the existing road to the pilot tunnel portal area were to have begun in August 1976, and the excavation of the pilot tunnel and exploratory borings therein commenced in October 1976. Construction of permanent access road is scheduled to start in October 1977.

In 1978, a steel cellular cofferdam would be built around the lower outlet structure area in the Jocassee Reservoir. Excavation of the upper intake channel, ventilation shaft, access tunnel portal, and tailrace channel would also begin along with the installation of construction plant.

In 1979, the main underground excavation for the power tunnel, tailrace tunnels, and powerhouse cavern would begin. Construction of the main dam would start in 1979.

In 1980, the major excavation work would be completed and the work of concrete lining of the ventilation shaft, concrete work for the powerhouse, and installation of the steel lining of the penstock section would begin. The powerhouse cranes would be installed.

In 1981, the concrete work for the power tunnel and shaft and tailrace tunnels would be completed.

In 1982, the concrete work for the upper intake structure would be completed. Concrete work for the lower outlet structure, switchyard station, mechanical and electrical equipment installation, and installation of Unit No. 1 would begin.

In 1983, the construction of the main dam and the dikes would be completed. Cofferdams would be removed. Installation of Units Nos. 1 and 2 would be completed and the units placed in commercial operation. Installation of Unit No. 3 would begin.

In 1984, installation of Unit No. 4 would be completed and Units Nos. 3 and 4 would commence commercial operation.

Since the tunnels and powerhouse would be underground, construction could continue year-around, even during inclement weather. During construction, the natural runoff from Bad Creek would be diverted through a steel pipe embedded in concrete in a trench under the main dam.

The project construction would extend over 9 years. The work force during the peak would be approximately 500 persons, and 25 percent of these persons would be transferees from the Applicant's other projects. During the fifth year of construction, the total work force would begin to decline.

1.8 COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS

The Applicant has obtained a Water Quality Certificate pursuant to Section 401 of the Federal Water Pollution Control Act Amendments of 1972 (Act) from the State of South Carolina Department of Health and Environmental Control (DHEC). Applicant proposes to treat domestic wastes during construction by use of a portable sewage treatment plant. If the discharge from this plant is made into a stream or into Lake Jocassee, the Applicant would be required to obtain a water quality certificate and discharge permit pursuant to Sections 401 and 402 of the Act. Similar permits would be required during operation for the discharge from any treatment plant used to treat domestic wastes at the powerhouse.

Applicant proposes to adhere to all applicable codes and regulations in the construction, maintenance, and operation of the project. Table 1-1 shows permits or licenses required for the Bad Creek Project and the proposed dates of application for each.

Table 1-1. Schedule of License and Permit Application

Permits or License	Agency <u>1/</u>	Proposed date on which Application would be made
401 Certification for Water Quality	SCDHEC	December 16, 1975
NPDES - for Discharges During Construction	SCDHEC	April 1, 1976
Permission to Relocate Highway SC 171	South Carolina Highway Commission	February 1, 1977
Construction Permit for Temporary Sewage Facility During Construction	SCDHEC	July 1, 1977
Dredge/Fill Permit, Section 404 FWPCA	COE	July 1, 1977
Authorization to Operate Temporary Sewage Facility	SCHHEC	October 1, 1977
Building Permits for Construction Buildings	Local County	March 1, 1978
Certificate of Convenience and Necessity for 500 kV Transmission line	Public Service Commission, SC	July 1981
NPDES - Operating Discharges	SCDHEC	July 1983

1/ Agency abbreviations:

SCDHEC - South Carolina Board of Health and Environmental Control

COE - U.S. Army Corps of Engineers

Source: Applicant

The following information (through p. 30) has been abstracted from

Draft Environmental Impact Statement
Ghent Generating Station
Units 3 and 4 August 1977

Prepared by U.S. Environmental Protection Agency,
Region IV

Kentucky Utilities Co.

Two coal-fired units; each 550 Mw gross capacity,
approximately 500 Mw net capacity.

1.3 PROJECT SCOPE

1.3.1 Project History

The concept of the Ghent power plant began in 1950. The site was selected mainly for its location on the Ohio River. The Ohio River provides the essentials that make it ideal for the siting of power plants, in that it provides an abundance of water for cooling purposes and an economical means of transportation for fuel supplies. Land was purchased near Ghent in 1969. The site is located one mile northeast of Ghent, Kentucky, on the Ohio River at river mile 536.0. The original plans were to have 4 coal-fired units with a combined gross electric generating capacity of 3,300 MW. Unit sizes were to produce 550 MW, 750 MW, 900 MW and 1,100 MW of power, respectively. Later, these plans were modified and all units were to produce 550 MW gross of electricity for a combined total of 2,200 MW gross. This decision came about because of other companies' experience with the poorer reliability of units with capacities greater than 600 MW.

1.3.2 Existing Site Description

Construction of Ghent's Unit 1 began in 1969 and the plant became operational in 1973. Construction for Unit 2 started in 1974 and the unit is expected to be operational in 1977. 1/ The characteristics of Units 1 and 2 are:

Turbine-generator rating	550 MW gross
Fuel	Coal: Unit 1--3% sulfur coal Unit 2--0.7% sulfur coal
Coal handling system	Barge, railroad
Ash disposal method	Discharge into ash settling pond
Particulate removal method	Unit 1--98.5% electrostatic removal system Unit 2--99.0% electrostatic removal system
Stack height	660 ft above grade
Circulating water system	Closed cycle cooling system employing one mechanical draft cooling tower per unit

1.3.3 Proposed Site Description

Kentucky Utilities Company plans to add two coal-fired electric generating units at its Ghent Power Station. This is a rational decision for the Company since the original plans for the Ghent Station included the construction of Units 3 and 4. The existing property of 632.7 acres is adequate to support the addition of the two new units without new purchases. Transmission lines are adequate to take the increased load from the additional units with one additional 345 kV transmission line in 1983.

The new units, each of which will have a capacity of 550 MW gross, will have a combined total electric generating capacity of 1,100 MW gross. Units 3 and 4 characteristics are:

Turbine generator rating	550 MW gross
Fuel	Coal--0.7% sulfur coal
Ash disposal method	Discharge into existing ash settling pond as modified
Particulate removal method	99.5% electrostatic removal systems
Stack height	660 ft above grade
Circulating water system	Closed cycle cooling system employing one mechanical draft cooling tower per unit

1/ This schedule was met.

New construction to the existing site will include:

- o One water intake structure
- o One mechanical draft cooling water tower per unit
- o One stack
- o Switch yard expansion
- o Housing for boilers and turbines
- o New road
- o One warehouse
- o Expansion of the existing coal yard
- o Expansion of the coal conveyor system

It is anticipated that the construction of the Ghent Units 3 and 4 will begin as soon as permits are issued thereby enabling the commercial operation of Unit 3 to begin in 1981 and of Unit 4 in 1983 (Table 1.3-1). 1/

A new 345 kV transmission line will be constructed in order to insure the transmission of power in case of failure on the other lines. The right-of-way for new transmission lines will be to the south of Ghent to a point approximately 5 miles west of Frankfort, Kentucky. Proposed construction is to begin in 1981.

1/ As of January 1980, No. 3 was scheduled for operation in June 1981 and No. 4 was scheduled for operation in January 1983.

Table 1.3-1

Preliminary Construction Schedule
Ghent Station - Units 3 & 4

	Unit 3	Unit 4
Soil Borings	Mar. 1976 to Apr. 1976	Mar. 1976 to Apr. 1976
Site Work	July 1977 to May 1979	Jan. 1979 to Aug. 1979
Substructure	July 1977 to May 1979	June 1979 to Sep. 1980
Intake and Discharge Structures	Jan. 1978 to June 1979	--
Circulating Water Piping	Feb. 1978 to July 1978	Aug. 1979 to Aug. 1981
Structural Steel	July 1978 to Oct. 1979	Jan. 1980 to Apr. 1981
Chimney	May 1978 to July 1980	--
Gallery Work	Aug. 1978 to Oct. 1979	Mar. 1980 to June 1981
Siding	Sep. 1978 to July 1980	Apr. 1980 to Dec. 1980
Superstructure	Dec. 1978 to Jan. 1981	May 1980 to Sep. 1981
Condensing Equipment	Feb. 1979 to Nov. 1979	Sep. 1980 to June 1981
Mechanical Equip. Erection	Feb. 1979 to Nov. 1980	Sep. 1980 to Apr. 1982
Steam Generator	Feb. 1979 to Feb. 1981	Sep. 1980 to Nov. 1982
Feed Water Heaters	May 1979 to Aug. 1979	Oct. 1980 to Dec. 1980
HVAC	Apr. 1979 to Aug. 1980	Nov. 1980 to Oct. 1981
Station Piping	Apr. 1979 to Mar. 1981	Nov. 1980 to Nov. 1982
Electrical Work	Apr. 1979 to Apr. 1981	Nov. 1980 to Nov. 1982
Coal Handling	Aug. 1979 to Nov. 1980	Feb. 1981 to May 1982
Cooling Tower (mech)	May 1979 to Oct. 1980	Feb. 1981 to Aug. 1982
Precipitators	Aug. 1979 to Dec. 1980	Mar. 1981 to Mar. 1982
Switchyard	Oct. 1979 to Oct. 1980	May 1981 to May 1982
Turbine Generator	Dec. 1979 to Mar. 1980	July 1981 to Nov. 1982
Ductwork	Oct. 1979 to Sep. 1980	Aug. 1981 to May 1982
Thermal Insulation	Feb. 1979 to Mar. 1981	Sep. 1981 to Jan. 1983

The following information (through p. 35) has been abstracted from

Draft Environmental Statement
Project 1301
New Power Plant On the Ohio River
New Haven, West Virginia
U.S. Army Engineer District
Huntington, W. Va.
October 1975

One 1300 Mw coal-fired generating unit
American Electric Power System

- 4. ENVIRONMENTAL IMPACT OF THE PROPOSED ACTION
- 4.1 ENVIRONMENTAL EFFECTS OF SITE PREPARATION AND PLANT AND TRANSMISSION FACILITIES CONSTRUCTION
- 4.1.1 Effects of Site Preparation and Plant Construction
- 4.1.1.1 Construction Plans
- 4.1.1.1.1 Schedules

Project Control

The size, cost, and complexity of the Project 1301 dictates close supervision and control to minimize construction delays and cost overruns. Because of the large capital investment involved and because of the high cost of replacement power, it is imperative that the plant be built by the most expeditious schedule possible. The electrical power industry has a responsibility for providing economical and reliable power consistent with doing everything technically feasible to protect the environment.

Awarding of Contracts

To ensure that the cost of construction is as economical as possible, major contracts are awarded only after competitive bids have been analyzed for both the economics of the costs and the professional capability of the bidder. This entire process of

plan and specification preparation, bidding, bid review, and award can take anywhere from two to nine months depending on the size and complexity of the work covered by the contract.

Critical Path Analysis

An effective scheduling technique for planning and controlling construction activities is the "Critical Path" method of network planning. This logic system details construction activities so that all physical and time restraints for each construction activity are factored into the job sequence. The available time to accomplish each activity and the particular work path which sets the minimum job completion time are determined from the logic diagram.

The Critical Path technique will be used throughout the various construction phases of Project 1301 to enable Appalachian Power Company & the AEP Service Corporation to discover and correct any condition which might lead to a delay in plant startup and resulting increased costs.

Material Control Record

One of the most crucial tasks in the entire construction process is purchasing and expediting of equipment and material which must be installed before the plant can operate. Each item must be ordered in the correct quantity with the proper lead time to ensure timely delivery. Traceability of every item is necessary at every stage of the job, i.e., from the first day it is put on a drawing until the day it is installed.

To provide this amount of information, American Electric Power Service Corp. and Appalachian Power Company have developed a data control program called the Material Control Record. This record allows ready checking of all identifiable equipment which must be bought for the plant, the required quantity, its drawing number, responsible engineer, vendor, order number, ordered quantity, actual and schedule purchase dates, required date, manufacturers' expected delivery date, and storeroom location.

Schedules

It will take approximately 4-1/2 years for the powerplant to become commercially operable. Presently, most of the major equipment has been ordered and is in fabrication. The following is a listing of construction schedules for the major structures which comprise a 1300 MW unit:

<u>Structure</u>	<u>Construction Time</u>	<u>Planned Completion</u>
Boiler Room		
a. Concrete	7 mos.	4/30/76
b. Steel	8 1/2 mos.	11/31/76
Turbine Room		
a. Concrete	11 mos.	8/31/76
b. Steel	4 mos.	4/30/77
Service Building	10 mos.	6/30/77
Cooling Tower	24 mos.	7/31/78
Stack	26 mos.	9/30/78
Coal Handling System	31 mos.	9/30/78
Switchyard	21 mos.	3/1/78
Precipitator	25 mos.	10/31/77

After boiler room concrete and structural steel are completed, boiler erection becomes the most critical path for timely completion. All other work is completed in parallel with the boiler. Boiler erection requires 24 months, turbine generator installation 10 months, piping and mechanical equipment installation 28 months, and installation of electrical facilities 26 months.

Approximately 14 months before commercial operation of a unit, testing of the many plant electrical and mechanical systems begins. Systems are operated to make sure that they meet functional requirements as set forth in the respective system specifications developed by AEPSC and Appalachian Power Company engineers. They are also tested at various overload conditions to ensure safe and reliable operation.

Actual construction of Project 1301 began in the spring of 1974. The following chart 1/ outlines the schedule for the major construction activities.

4.1.1.1.2 Manpower Requirements

At the height of construction, more than 2500 construction workers will be on the job. Since almost all of the workers are hired in the local area, construction of Project 1301 will produce a substantial expansion in the local economy.

It is estimated that more than 7,000,000 manhours will be required to complete the unit. The total payroll will be in excess of 130 million dollars. The total project cost will be in excess of 400 million dollars.

4.1.1.2 Land Use Impact

4.1.1.2.1 Area Involved In Construction

Much of the area is devoted to agriculture. Within a three mile area of the proposed plant, 47.3 percent is agricultural or other open space, while 42.8 percent is wooded, 4.8 percent industrial, 3.3 percent residential-commercial, and 1.8 percent transmission.

1/ Refers to the chart which is reproduced on page 36 of this Appendix.

Residential and commercial areas are concentrated in New Haven, West Virginia, Racine, Ohio, and Syracuse, Ohio.

4.1.1.2.2 Local Population

The total work force peak at the construction site during the next three and one-half years is expected to be 2600.

After plant completion, 150 persons will be hired permanently at the proposed plant while 1500 employees will be hired in West Virginia mines to supply the 3.8 million tons of coal that will be needed at the plant annually.

PROJECT 1301 MAJOR CONSTRUCTION ACTIVITIES

The following information (through p. 39) has been abstracted from

Draft Environmental Impact Statement
Pleasants Power Station
Units No. 1 and 2 Ohio River
Willow Island, Pleasants County, W. Va.
Prepared by
U.S. Army Engineer District
Huntington, W. Va.
June 1974

Two coal-fired units, each approximately 626 Mw
Allegheny Power System

- 3. THE ENVIRONMENTAL IMPACT OF THE PROPOSED ACTION
- 3.1 ENVIRONMENTAL EFFECTS OF SITE PREPARATION AND PLANT AND TRANSMISSION FACILITIES CONSTRUCTION
- 3.1.1 Effects of Site Preparation and Plant Construction
- 3.1.1.1 Construction Plans
- 3.1.1.1.1 General Description

Flexibility has been designed into the construction plans in order to take advantage of site information currently being generated. These plans are under constant review and can be revised to minimize environmental effects predicted from the ongoing site environmental studies.

- 3.1.1.1.2 Schedules

A summary project schedule is given in Table 3.1-1. The schedule indicates a construction start on June 1, 1974, with commercial operation beginning March 1, 1978. The major activities for the first unit during construction are indicated in the table.

The second unit is scheduled to follow the first unit by approximately 3 years and will employ a similar erection sequence. 1/

- 3.1.1.1.3 Manpower Requirements

Site preparation will commence in June 1974; manpower mobilization will begin at this time and a force of approximately 100 men will be attained by the end of the year. By the latter part of 1975 approximately 900 people will be employed, ascending to a peak of approximately 1,200 in the fall of 1976. The descent from this peak will level out in the spring of 1978 at approximately 400 men. At this time the manpower level will ascend to a peak of approximately 1,000 men in the fall of 1979. Manpower levels will start decreasing at this point until completion of the project in June 1981. The estimated number of workers on the site, by years, is provided in Table 3.1-2.

1/ Pleasants No. 1 was placed in commercial operation on March 31, 1979. As of January 1980, Pleasants No. 2 was scheduled for commercial operation in October 1980.

TABLE 3.1-1
(Sheet 1 of 2)

CONSTRUCTION SCHEDULE

<u>Activity</u>	<u>Date</u>
Start Site Preparation	4/01/74
Construction Services	
Potable Water Distribution - Start	8/01/74
Fire Protection Distribution - Start	9/01/74
Sewage Disposal - Complete	12/31/74
Boiler House	
Excavation - Start	9/01/74
Substructure - Start	10/15/74
Superstructure - Start	3/15/75
Erect Boiler - Complete	9/30/77
Turbine Room	
Excavation - Start	8/15/74
Substructure - Start	10/15/74
Turbine-Generator Pedestal - Complete	10/31/75
Superstructure - Start	11/01/75
Turbine-Generator - Complete	9/30/77
Draft Plant	
Flue Gas Treatment Equipment - Start	9/01/76
Precipitator - Complete	4/30/77
Chimney - Complete	7/31/77
Circulating Water	
Pump House - Complete	1/31/77
Cooling Towers - Complete	3/31/77
Ash Disposal	
Offsite Area - Complete	12/31/75
Onsite Facilities - Complete	8/31/77
Wastewater Treatment	
Facilities - Complete	3/01/77

TABLE 3.1-1
(Sheet 2)

<u>Activity</u>	<u>Date</u>
Coal Handling	
Conveying - Start	7/01/75
Barge Unloading - Start	1/01/76
Steam to Turbine	10/01/77
Start of Commerical Operation	3/01/78

TABLE 3.1-2

ESTIMATED NUMBER OF CONSTRUCTION WORKERS

<u>Year</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
<u>Month(s)</u>	Jun-Dec	Jan-Dec	Jan-Oct-Dec	Jan-May-Jul-Dec	Jan-Jun-Dec	Jan-Oct-Dec	Jan-Jul-Dec	Jan-Jun
<u>Workers</u>	0-100	100-900	900-1200-1170	1170-1000-660-440	440 760	760-1000-960	960-700-200	200-0
<u>Avg. no. of workers - yearly basis</u>	29	500	1085	800	520	915	660	50

The following information (through p. 50) has been abstracted from

Shearon Harris Nuclear Power Plant
Units 1, 2, 3 & 4
Environmental Report
Carolina Power & Light Company

Four nuclear units, nominal capacity
approximately 900 Mw each

Carolina Power and Light Co. announced plans on April 30, 1971 for 4 nuclear units, each of approximately 900 Mw capacity, to be built at Shearon Harris Nuclear Plant. An application for construction of this plant was submitted to the U. S. Atomic Energy Commission 1/ on June 8, 1971.

2.3 PERMITS AND ENVIRONMENTAL APPROVALS

In addition to the AEC 1/ review of plant design which precedes the issuance of a construction permit, there will be a number of other permit proceedings and reviews concerned with the environmental impact of the plant. These permits and approvals governing water use, waste water discharges, thermal effects and various phases of construction will be obtained from the N. C. Board of Water and Air Resources, the N. C. Office of Fisheries and Wildlife Resources, the U. S. Army Corps of Engineers, the N. C. Board of Health, and the Federal Aviation Agency. These permits include environmental impact as a major consideration in the review process and, in each case, other interested agencies such as the Environmental Protection Agency and the U. S. Fish and Wildlife Service are involved in the review and decision-making process. The eight major permits, licenses, or approvals required for construction of the Harris Plant are as follows:

1. Construction Permit from the AEC. 1/
2. Certificate of Public Convenience and Necessity from the North Carolina Utilities Commission.

1/ Now the U.S. Nuclear Regulatory Commission (NRC)

3. Waste Water Discharge Permit from the N. C. Board of Water and Air Resources.
4. Discharge Permit from the U. S. Army Corps of Engineers.
5. Lake Construction and Impoundment Permit from the North Carolina Board of Health.
6. Approval of Road Relocations by the County Commissioners and State Highway Commission.
7. Permit to obstruct navigable airspace from the Federal Aviation Agency.
8. Facility Operating License from the AEC. 1/

1/ Now NRC

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
UNITS 1, 2, 3 & 4
Environmental Report

NORMAL PROCESSING OF AN APPLICATION
FOR A NUCLEAR FACILITY
CONSTRUCTION PERMIT

2.3-1

CAROLINA POWER & LIGHT COMPANY SHEARON HARRIS NUCLEAR POWER PLANT UNITS 1, 2, 3 & 4 Environmental Report	
NORMAL PROCESSING OF AN APPLICATION FOR A CERTIFICATE OF PUBLIC CONVEN- IENCE & NECESSITY	
<div style="text-align: right;">2.3-2</div>

AMENDMENT NO. 36

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
UNITS 1, 2, 3 & 4
Environmental Report

NORMAL PROCESSING OF AN APPLICATION
FOR STATE WASTE WATER DISCHARGE
PERMIT

2.3-3

Figure 2.3-4

AMENDMENT NO. 36	
CAROLINA POWER & LIGHT COMPANY	
SHEARON HARRIS NUCLEAR POWER PLANT	
UNITS 1, 2, 3 & 4	
Environmental Report	
NORMAL PROCESSING OF AN APPLICATION FOR THE LAKE CONSTRUCTION AND IMPOUNDMENT PERMIT	
2.3-6

AMENDMENT NO. 36

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
UNITS 1, 2, 3 & 4
Environmental Report

NORMAL PROCESSING OF AN APPLICATION
FOR RELOCATING ROADS

2.3-7

AMENDMENT NO. 36

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
UNITS 1, 2, 3 & 4
Environmental Report

NORMAL PROCESSING OF AN APPLICATION
FOR THE PERMIT TO OBSTRUCT NAVIGABLE
AIR SPACE

2.3-8

The following information (through p. 54) has been abstracted from

Yellow Creek Nuclear Plant
Units 1 & 2
Environmental Report
Tennessee Valley Authority

Two nuclear units, nominal capacity
approximately 1285 Mw each

4.1 Site Preparation and Plant Construction

Construction of the Yellow Creek Nuclear Plant is anticipated to begin in December 1977. Commercial operation is projected for unit 1 in March 1985 and unit 2 in March 1986. 1/

For a total construction period of about 8 years, forecast employment of TVA and contractor employees is as follows (also see Figure 4.1-1):

<u>Months After Start</u>	<u>Employees</u>
6	500
12	1000
18	1700
24	2150
30	2400
36	2700
42	2800
48	2800
54	2800
60	2750
66	2400
72	1800
78	1400
84	1000
90	400

1/ As of January 1980 Yellow Creek No. 1 was scheduled for commercial operation in November 1985 and Yellow Creek No. 2 was scheduled for April 1988.

Figure 4.1-1
MANPOWER FORECAST
YELLOW CREEK NUCLEAR PLANT

The following page (page 56 of this Appendix) has been reproduced from

Callaway Plant Units 1 & 2
Environmental Report
Union Electric Co.

Two nuclear units, nominal capacity
approximately 1150 Mw each

Figure 4.1-4

PRELIMINARY
CONSTRUCTION SCHEDULE

UNION ELECTRIC CO.
CALLAWAY PLANT
UNITS 1 & 2

The following pages (through p. 61) have been reproduced from

Clinton Power Station Units 1 & 2
Environmental Report
Illinois Power Co.

Two nuclear units, nominal
capacity approximately 950 Mw each

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SUPPLEMENT NO. 4
4/15/74

TABLE 12.1-1

PERMITS AND LICENSES FOR CLINTON POWER STATION

ITEM	AGENCY OR JURISDICTION	APPROVAL OR PERMIT REQUIRED		PURPOSE OF ACTION	ESTIMATED SCHEDULE FOR SUBMISSION	STATUS & REMARKS
		Description	Authority			
1.	Illinois Commerce Commission	Certificate of Public Convenience and Necessity	Illinois Public Utilities Act, Ill. Rev. Stat. 1971, ch. 111 1/2 §§ 1001 et seq.	Construction, operation and maintenance of Units 1 and 2	Oct. 1, 1972	Order and certificate granted November 21, 1973
2.	Illinois Dept. of Transportation (Div. of Waterways)	Construction Permit	Ill. Commerce Act of June 10, 1911, Ill. Rev. Stat. 1971, ch 19 § 65	Construct dam and discharge structure on Salt Creek	April 15, 1974	
3.	DeWitt County Zoning Board of Appeals	Approvals	Ill. Zoning Act, Ill. Rev. Stat. 1971, ch. 34 § 3151	Authority to Form Lake and Construct Plant	May 15, 1974	
4.	United States Atomic Energy Commission	Construction Permit	Atomic Energy Act of 1954, 42 U.S.C. 2011 et seq. and Regulations 10 C.F.R. 50	Construction of Units 1 and 2	Aug. 17, 1973	Docketed Oct. 30, 1973, Nos. 50-461 and 50-462
5.	Illinois Dept. of Transportation Div. of Highways	Permit to perform road work	Ill. Highway Code, Ill. Rev. Stat. 1971, ch. 121 §§ 1-101	Changes and Alterations to US Routes 54 and 48	April 1, 1974	Initial contact made
6.	Trenkle Slough Drainage District	Agreement	Ill. Drainage Code, Ill. Rev. Stat. 1971, ch. 42 §§ 1-1 to 12-24	Obtain drainage agreement	May 15, 1974	--
7.	City of Farmer	Agreement	Ill. Drainage Code, Ill. Rev. Stat. 1971, ch. 42 §§ 1-1 to 12-24	Land Exchange Agreement	April 1, 1974	--
8.	DeWitt County Supt. of Highways	Permit to perform road work	Ill. Highway Code, Ill. Rev. Stat. 1971, ch. 121 §§ 1-101	Vacating, replacement and alteration of roads	May 15, 1974	Initial contact made
9.	Creek, DeWitt, Harp Township Highway Commissions	Vacation, replacement, and alteration of roads	Ill. Highway Code, Ill. Rev. Stat. 1971, ch. 121 §§ 1-101	Relocations and closings of township roads as required	May 15, 1974	Initial contact made
10.	Circuit Court of DeWitt County	Petition for condemnation	Eminent Domain Act, Ill. Rev. Stat. 1971, ch. 47 §§ 1-18	Exercise right of eminent domain	Sept. 15, 1974	--
11.	Illinois Commerce Commission	Order under Sects. 50 and 59	Ill. Public Utilities Act §§ 50, 59, Ill. Rev. Stat. 1971, ch. 111 2/3 §§ 50, 63	Obtain right of eminent domain	April 22, 1974	--
12.	State of Illinois Dept. of Mines and Minerals	Permit	Ill. Act of July 29, 1941, § 6, Ill. Rev. Stat. 1971, ch. 104 § 67	Drilling of water wells and plugging of existing wells	4th Qtr. 1973	--

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SUPPLEMENT NO. 4
4/15/74

TABLE 12.1-1 (continued)

ITEM	AGENCY OR JURISDICTION	APPROVAL OR PERMIT REQUIRED		PURPOSE OF ACTION	ESTIMATED SCHEDULE FOR SUBMISSION	STATUS & REMARKS
		Description	Authority			
13.	Various Pipeline Companies	Agreements and/or Contracts for Easements as needed	--	Obtain property easements for relocations and operation	July 1974	Initial contacts made
14.	Illinois Central Gulf Railroad	Agreement	--	Rail bridge, right of way and spur line access	2nd Qtr. 1974	
15.	U. S. Army Corps of Engineers	Construction Permit	Rivers and Harbors Act of 1899 §§ 10, 11, 33 U.S.C. §§ 403, 404 and 33 U.S.C. § 565	Construct dam discharge structure	--	Letter of 3-30-73 from Corps indicates no permit currently needed.
16.	U. S. Environmental Protection Agency	Operating Permit ^a	Federal Water Pollution Control Act §402(b), 84 Stat. 816	Waste discharge from Lake (NPDES permit program)	3rd Qtr. 1974	--
17.	State of Illinois EPA, Division of Water Pollution Control	Construction Permit	Ill. Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Construction of lake and other waste treating facilities	2nd Qtr. 1974	--
18.	State of Illinois EPA, Division of Water Pollution Control	Construction Permit	Ill. Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Construction of sewage treatment unit	2nd Qtr. 1974	--
19.	State of Illinois EPA, Div. of Land Pollution Control	Operating Permit	Ill. Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Operate land fills at site	Mid 1974	--
20.	State of Illinois EPA, Div. of Air Pollution Control	Operating Permit	Ill. Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Permit for open burning of debris	Mid 1974	--
21.	State of Illinois EPA, Div. of Air Pollution Control	Construction and Operating Permit	Ill. Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Construct and operate auxiliary boiler	Mid 1975	--
22.	State of Illinois EPA, Div. of Water Pollution Control	Operating Permit	Ill. Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Waste water discharge	Mid 1978	--

^a If the State of Illinois EPA Program (Item 22) is approved by Federal EPA, Item 16 may not be required.

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SUPPLEMENT NO. 4
4/15/74

TABLE 12.1-1 (Continued)

ITEM	AGENCY OR JURISDICTION	APPROVAL OR PERMIT REQUIRED		PURPOSE OF ACTION	ESTIMATED SCHEDULE FOR SUBMISSION	STATUS & REMARKS
		Description	Authority			
23.	State of Illinois EPA, Div. of Water Pollution Control	Operating Permit	Ill. Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111 1/2 §§ 1001 et seq.	Operate sewage treatment unit	6 months after initial operation	--
24.	United States Atomic Energy Commission	Materials License	Atomic Energy Act of 1954, 42 U.S.C. 2011 and Regulation 10 C.F.R. 70	License to possess special nuclear materials prior to operating license	Mid 1976	--
25.	United States Atomic Energy Commission	By Product License	Atomic Energy Act of 1954, 42 U.S.C. 2011 et seq. and Regulations 10 C.F.R. 30	License to possess special nuclear materials prior to operating license	Mid 1976	--
26.	United States Atomic Energy Commission	Operating Permit	Atomic Energy Act of 1954, 42 U.S.C. 2011 et seq. and Regulations 10 C.F.R. 50	Operation of Units 1 and 2 (submission of PSAR and final ER)	April 1, 1977	--
27.	Federal Aviation Administration	Determination if installation of lightning arrestors on buildings would constitute an obstruction	Federal Aviation Act § 1101, 49 U.S.C. § 1501 and Regulations 14 C.F.R. § 77.13	An obstruction determination may require lighting or markings	2nd Quarter 1975	--
28.	State of Ill. Div. of Aeronautics	Notification that an FAA application for construction of lightning arrestors on buildings has been made	Ill. Airport Hazards Elimination Act, Ill. Rev. Stat. 1971, ch. 15 1/2 §§ 48.101-.112	Following FAA determination this agency is notified of the approved construction	2nd Quarter 1975	--
29.	Federal Aviation Administration	Notice of Proposed Construction or Alteration	Federal Aviation Act § 1101, 49 U.S.C. § 1501 and Regulations 14 C.F.R. § 77.13	Construction or Alteration in Transmission lines	Pending determination of need	Engineering on transmission lines incomplete. It is not known at this time whether or not notification will be required.
30.	State of Illinois Div. of Aeronautics	Permit required if erection of a structure contravenes Part 77 of the Federal Aviation Administration	Ill. Airport Hazards Elimination Act, Ill. Rev. Stat. 1971, ch. 15 1/2 §§ 48.101-.112	Erect structures, if required	Pending determination of need	Engineering on transmission lines incomplete. It is not known at this time whether or not a permit will be required.

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SUPPLEMENT NO. 4
4/15/74

TABLE 12.1-1 (Continued)

ITEM	AGENCY OR JURISDICTION	APPROVAL OR PERMIT REQUIRED		PURPOSE OF ACTION	ESTIMATED SCHEDULE FOR SUBMISSION	STATUS & REMARKS
		Description	Authority			
31.	Illinois Commerce Commission	Certificate of Public Convenience and Necessity	Ill. Public Utilities Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Installation and operation of two transmission lines	Application for 138 kV line scheduled to be filed in June, 1974. Application for 345 kV lines scheduled to be filed in May, 1976	--
32.	State of Illinois Dept. of Transportation Water Resource Management	Permit required if a structure is to be erected near bank of stream or line is crossing a navigable waterway	Illinois Rivers and Streams Act, Ill. Rev. Stat. 1971, ch. 19 §§ 52-78	Erect structures if required	Pending determination of need	Engineering on transmission lines incomplete. It is not known at this time whether or not a permit will be required.
33.	Illinois Pollution Control Board	Permit for open burning during clearing and construction of transmission lines	Illinois Environmental Protection Act, Ill. Rev. Stat. 1971, ch. 111½ §§ 1001 et seq.	Dispose of clearing	Pending determination of need	To be obtained by Contractor if needed
34.	State of Ill. Environmental Protection Agency, Div. of Water Pollution Control	Certification	Federal Water Pollution Control Act § 401, 84 Stat. 816	AEC Draft Environmental Statement	May 1, 1974	--

^b Public Hearings may be necessary for Items 30 and 31

(Sheet 4 of 4)

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

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