Information Circular 8725

Projects To Expand Fuel Sources in Eastern States

Survey of Planned or Proposed Coal Mines, Coal and Noncoal Conversion Plants, Electric Generating Plants, Oil Refineries, Uranium Enrichment Facilities, and Related Infrastructure, in States East of the Mississippi River (as of June 1976)

By Staff, Eastern Field Operation Center, Pittsburgh, Pa.

With Contributions by
Bureau of Mines Eastern State Liaison Officers

UNITED STATES DEPARTMENT OF THE INTERIOR
Thomas S. Kleppe, Secretary

BUREAU OF MINES
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by

Staff[1]

ABSTRACT

This Bureau of Mines report comprises tables listing the name, location, and other pertinent data concerning certain future fuel-related projects. The tables include information on projects involving the proposed or planned development of fuel resources, as well as the development of storage, transportation, and conversion facilities; the report covers the 26 States east of the Mississippi River. Of the total 594 projects for which information is provided, 492 concern coal mines and electric generating plants.

INTRODUCTION

As the demand for energy increases, there is a greater need for comprehensive information regarding fuel resources and what is being done to develop them. The Bureau of Mines is continually assessing the Nation's mineral fuel resources from the standpoint of supply and demand. This report is an overview of how industry and government plan to develop these resources into new or additional sources of energy; it includes information on projects proposed, planned, or under development. These projects involve (1) coal mines, (2) electric generating plants, (3) coal conversion plants, (4) noncoal conversion plants, (5) pipelines, (6) railroads, (7) terminal facilities, (8) oil refineries and natural gas processing plants, (9) gas storage facilities, and (10) uranium enrichment facilities. Also included is information which can be used to appraise the type and amount of fuel-related resource development that may be anticipated within the next several years. The data--based on a survey conducted during May-June 1976--cover the 26 States east of the Mississippi River.

There are two major limitations to the data in this report. (1) Only projects that have been publicly announced are listed; unannounced plans are not included because no direct survey of industry was conducted. (2) Some of the projects that have been proposed and listed may never come into being. Within these limitations the information provides a view of current activities

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in the Eastern United States to increase the energy supplied by mineral fuels; the Bureau of Mines welcomes corrections or additions to the tables that follow. Please notify the Eastern Field Operation Center or the appropriate State Liaison Officer (addresses in appendix).

ACKNOWLEDGMENTS

Bureau of Mines State Liaison Officers in the Eastern States gathered part of the data given in this report. The officers and the States for which they provided information are:

James R. Boyle (Alabama)
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Herman W. Sheffer (South Carolina)
William D. Hardeman (Tennessee)
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Information provided by these officers was submitted to the Eastern Field Operation Center (EFOC), Pittsburgh, where the staff collated and combined the data with other data gathered by the Pittsburgh office. EFOC personnel included David C. Benson, John R. Bitler, Maynard L. Dunn, Jr., Robert E. Kelly, and F. Vernon Tompkins. William Cochran coordinated the survey and compiled the final report.

SOURCES OF DATA

Most of the information was extracted and assembled from published sources. Primary sources are indicated in a bibliography at the end of the report. Other sources include environmental impact statements for proposed projects (EFOC files), State Liaison Officer's monthly reports, and numerous local newspapers that have described projects in their areas. Individual items in the report are not referenced; such procedure was not practical because of the number of citations that would have been required for each project, and the multiple sources for many individual items of information.

SUMMARY OF CERTAIN FUTURE FUEL-RELATED PROJECTS IN THE EASTERN UNITED STATES

As of June 1976, the Bureau of Mines had compiled a list of 594 future fuel-related projects in 26 Eastern States. The projects involve the proposed or planned development of resources, as well as the development of storage, transportation, or conversion facilities. Projects on oil wells, oil shale, tar sand, or coal slurry pipelines are not reported here because plans for developing such projects in the Eastern States have not been revealed.

Over half of the future projects are in six States: Illinois, Kentucky, New York, Ohio, Pennsylvania, and West Virginia. Alabama and Florida also have a large number of planned fuel developments. Table 1 indicates the number of projects in each of the Eastern States, while figure 1 shows the location and distribution of these projects.

TABLE 1. - Number of future fuel-related projects, by State

State	Number of projects	State	Number of projects
Alabama	33	New Hampshire	3
Connecticut	4	New Jersey	22
Delaware	3	New York	31
Florida	34	North Carolina	15
Georgia	20	Ohio	33
Illinois	46	Pennsylvania	61
Indiana	26	Rhode Island	8
Kentucky	50	South Carolina	7
Maine	4	Tennessee	14
Maryland	20	Vermont	2
Massachusetts	20	Virginia	19
Michigan	26	West Virginia	75
Mississippi	7	Wisconsin	11
		Total projects	594

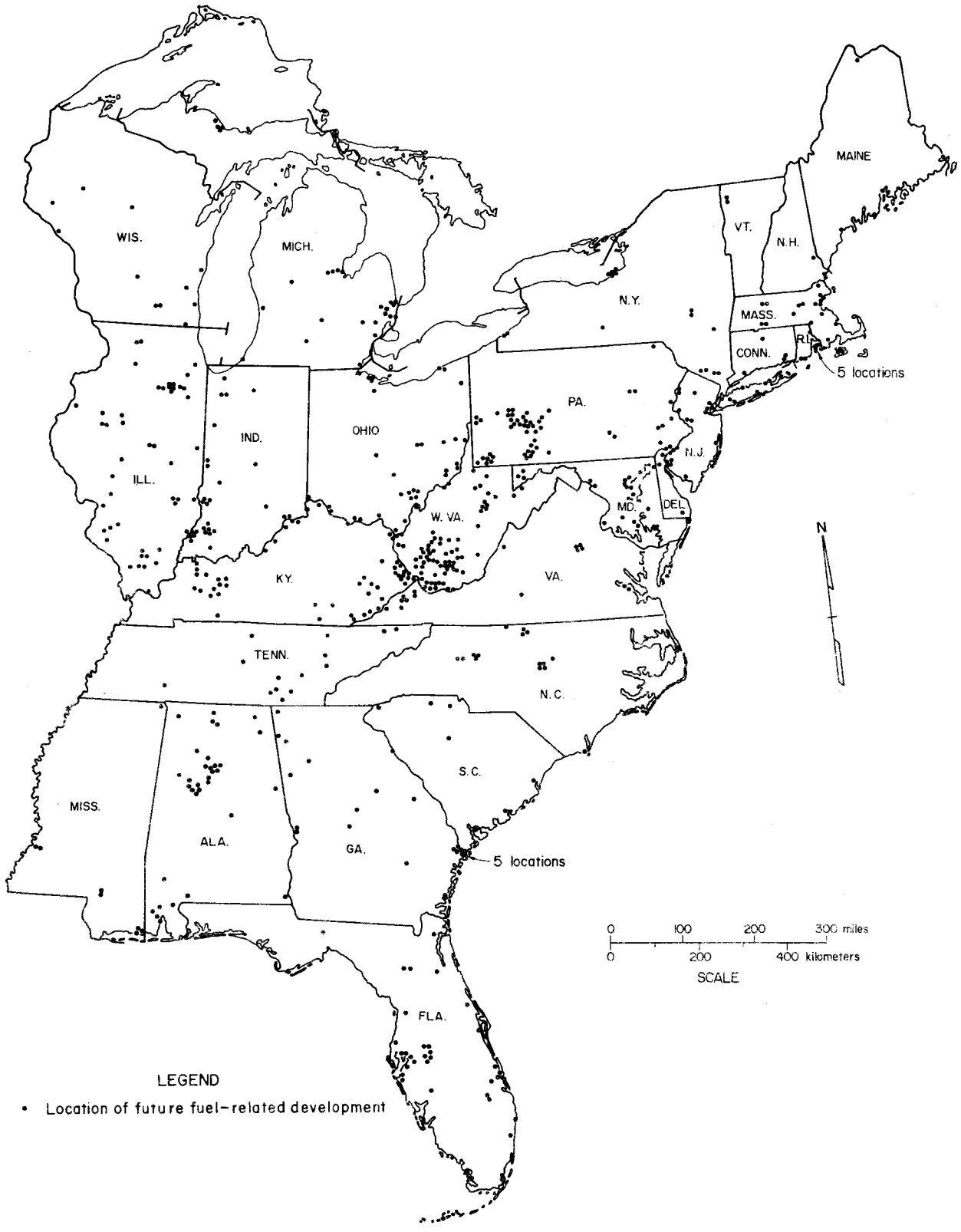

FIGURE 1. - Distribution of future fuel-related projects in the Eastern Un ed States.

Of the 594 projects, 198 are coal mines; 294, electric generating plants. The full distribution of projects by type of development is shown in table 2.

TABLE 2. - Number of future fuel-related projects, by type of facility

Type of facility	Number of projects
Coal mines	198
Electric generating plants	294
Coal conversion plants	14
Noncoal conversion facilities	6
Pipelines	13
Railroads	2
Terminal facilities	19
Oil refineries	16
Natural gas processing plants	5
Gas storage facilities	21
Uranium enrichment facilities	6
Total projects	594

Future Coal Mines

Information is provided for 198 mines: 33 surface mines, 158 underground mines, and 7 combination surface/underground mines. The total also includes the reopening of 5 underground mines and expansion of 4 others. The listing does not include the hundreds of relatively small and short-term surface mines which will be opened (and closed) in the next several years in the Appalachian coalfield; these were considered normal startups of continuing operations, and therefore not pertinent to this report.

Table 3 indicates anticipated additional capacity and potential markets. Although added capacity is shown as 243 million tons, realistically this should be reduced by an amount equal to production losses occasioned by mine closings caused by economic conditions, depletion, production problems, and other factors. About a third of the indicated added capacity is slated for metallurgical use.

TABLE 3. - Future coal mines, capacities, and markets, by State

State	Number of mines[1]	Capacity, million tons per year	Market	
			Steam, million tons per year	Metallurgical, million tons per year
Alabama	17 (1)	22.2	7.6	[2]14.6
Georgia	2 (2)	-	-	-
Illinois	13	30.0	30.0	-
Indiana	5	8.3	8.3	-
Kentucky	35 (4)	59.3	54.9	4.4
Maryland	1	1.8	.9	.9
Ohio	10	[3]18.6	16.1	-
Pennsylvania	37	28.7	16.5	12.2
Tennessee	4	3.5	.8	2.7
Virginia	9	8.5	2.7	[4]5.8
West Virginia	65	61.7	16.3	45.4
Total	198	242.6	154.1	86.0

[1]Numbers in parentheses indicate the number of mines not included in capacity and market data.

[2]Total includes 6 million tons to be exported to Japan.

[3]Includes production of one mine, 2.5 million tons annually, to be used by a gasification plant.

[4]Total includes 1.2 million tons to be exported to Romania.

Future Electric Generating Plants and Expansions

There are 294 generating plant projects consisting of 379 units listed in this report. As indicated in table 4, New York, Florida, and Illinois lead in the number of projects, whereas New York, Tennessee, Maryland, Alabama, and Illinois have the greatest anticipated added capacity. Ultimate capacity of all projects is 242,893 megawatts. Of these, 83 would depend on coal as an energy source and would yield 53,024 megawatts.

TABLE 4. - Future electric generating plants and capacities, by State

State	Sited projects	Capacity, megawatts	Unsited projects	Capacity, megawatts	Total projects	Total units	Total capacity, megawatts
Alabama.....	8	16,306	-	-	8	20	16,306
Connecticut....	1	1,150	-	-	1	1	1,150
Delaware.....	3	2,340	-	-	3	3	2,340
Florida.....	27	14,171	-	-	27	35	14,171
Georgia.....	12	10,781	-	-	12	27	10,781
Illinois.....	23	15,207	-	-	23	23	15,207
Indiana.....	16	11,655	-	-	16	16	11,655
Kentucky.....	9	6,227	-	-	9	18	6,227
Maine.....	3	2,580	-	-	3	3	2,580
Maryland.....	13	18,953	1	650	14	15	19,603
Massachusetts..	17	5,034	-	-	17	17	5,034
Michigan.....	18	10,246	-	-	18	18	10,246
Mississippi....	6	3,900	-	-	6	6	3,900
New Hampshire..	2	2,300	-	-	2	2	2,300
New Jersey.....	15	11,760	3	2,410	18	18	14,170
New York.....	22	18,801	7	8,900	29	38	27,701
North Carolina.	14	12,795	-	-	14	17	12,795
Ohio.....	16	11,213	-	-	16	16	11,213
Pennsylvania...	13	11,541	-	-	13	14	11,541
Rhode Island...	6	2,314	-	-	6	6	2,314
South Carolina[1]	6	8,086	-	-	6	18	8,086
Tennessee.....	8	17,597	-	-	8	14	17,597
Vermont.....	2	369	-	-	2	2	369
Virginia.....	8	6,478	-	-	8	13	6,478
West Virginia..	4	3,552	-	-	4	7	3,552
Wisconsin.....	11	5,577	-	-	11	12	5,577
Total.....	283	230,933	11	11,960	294	379	242,893

[1]Capacity for one project not available and not included.

Future Coal Conversion Plants

Fourteen coal conversion plants are identified in this report. The total includes 10 gasification projects, 3 liquefaction projects, and 1 project to produce solvent refined coal. Table 5 shows that the coal conversion facilities are now being developed on a small scale and proposed and planned projects would yield relatively minor quantities of processed energy.

TABLE 5. - Future coal conversion plants and capacities, by State

State	Gasification		Liquefaction	
	Number of projects	Capacity, million cubic feet per day	Number of projects	Capacity, barrels per day
Connecticut.....	1	3.2	-	-
Illinois.....	1	214.0	1	3,900
Kentucky.....	1	80.0	1	(1)
Maryland.....	1	60.0	-	-
Ohio.....	2	111.6	1	2,600
Pennsylvania.....	3	(1)	-	-
West Virginia....	1	(1)	-	-
Total[2].....	10	468.8	3	6,500

[1] Capacity not available.
[2] Does not include one proposed plant in Pennsylvania to produce solvent refined coal, capacity not available.

Future Noncoal Conversion Plants

Noncoal conversion projects in the Eastern States are neither plentiful nor of a size to produce a major supply of energy. Table 6 indicates only six projects with a combined capacity of only 374.8 million cubic feet of synthetic gas.

TABLE 6. - Future noncoal conversion plants and capacities, by State

State	Number of projects	Capacity, million cubic feet per day
Connecticut.....	1	[1] 31.5
Florida.....	1	1.8
Indiana.....	1	60.0
Massachusetts.....	1	31.5
New Jersey.....	1	125.0
New York.....	1	125.0
Total.....	6	374.8

[1] Product would be solid fuel to be used as boiler feed--converted to gas equivalent.

Future Pipelines

Thirteen pipeline projects are identified; these include 9 intrastate lines and 4 interstate lines for a combined length in the Eastern States of 1,501 miles. The length of pipeline in each of the States is shown in table 7. These pipelines would carry gas, crude oil, and petroleum products; no coal slurry pipeline projects are reported for the Eastern States.

TABLE 7. - Future pipelines, by State

State	Intrastate pipelines	Interstate pipeline segments	Total length, miles
Alabama	-	1	25
Georgia	3	-	268
Illinois	2	-	147
Indiana	-	1	275
Kentucky	-	1	80
Maryland	-	2	73
Michigan	-	1	60
Ohio	-	1	40
Pennsylvania	2	1	245
Tennessee	1	1	180
Virginia	-	2	60
West Virginia	1	-	48
Total	9	(1)	1,501

[1]The 11 pipeline segments combine to form 4 interstate pipelines.

Future Railroads

Only two short railroad projects are indicated. Combined length of the lines is 25 miles. One line is located in Pennsylvania (coal mine to barge transportation--17 miles) and the second line is in Kentucky (spur--8 miles). Not listed here as discrete new railroad projects is the anticipated and extensive upgrading of track, rolling stock, and related facilities for unit-train movement of increased coal tonnage. The Railroad Revitalization and Regulatory Reform Act of 1976 provides for guaranteed loans for this upgrading.

Future Terminal Facilites

Terminal facilities of various types are summarized in table 8. Four of them involve unloading facilities for crude oil and liquefied natural gas; 15 projects would be concerned with coal handling facilities.

TABLE 8. - Future terminal facilities, by State

State	Number of projects	Type of facility
Alabama	3	Coal transloading (2), coal storage and transloading (1).
Georgia	1	Liquefied natural gas, offshore.
Illinois	1	Coal transloading.
Kentucky	3	Do.
Maryland	1	Liquefied natural gas unloading.
Massachusetts	1	Coal transloading.
New Jersey	2	Crude oil unloading (deepwater port), liquefied natural gas unloading.
Ohio	2	Coal transloading, coal barge fleeting area.
Pennsylvania	1	Coal unit train loading.
West Virginia	4	Coal transloading (3), preparation plant (1).
Total	19	

Future Oil Refineries and Natural Gas Processing Plants

Sixteen new oil refineries or expansions and five new natural gas processing plants are listed in this report. If completed, the planned refinery projects would result in additional throughput of 2.6 million barrels per day; similarly, the proposed gas processing plants would process nearly one-quarter billion cubic feet of natural gas per day. Table 9 indicates the number of projects and the capacity by State.

TABLE 9. - Future oil refineries and natural gas processing plants, by State

State	Oil refineries		Natural gas processing plants	
	Number of projects	Throughput capacity[1]	Number of projects	Throughput capacity[2]
Alabama.....	2	35	3	117
Connecticut..	1	400	-	-
Florida.....	1	250	-	-
Illinois.....	4	72	-	-
Maine.....	1	425	-	-
Maryland.....	1	200	-	-
Mississippi..	1	200	-	-
New Hampshire	1	400	-	-
New Jersey...	1	20	-	-
New York.....	1	200	-	-
Pennsylvania.	-	-	[3]1	125
Rhode Island.	1	250	-	-
Tennessee....	-	-	[4]1	6
Virginia.....	1	184	-	-
Total...	16	2,636	5	248

[1]Additional throughput capacity for oil refineries in thousand barrels per day.
[2]Additional throughput capacity for natural gas processing plants in million cubic feet per day.
[3]Gas from naphtha.
[4]LNG plant.

Future Gas Storage Facilities

Twenty-one future gas storage projects have been identified in 11 States (table 10). In 12 projects, depleted natural gas reservoirs would be used; in the other 9, natural gas in liquefied form (LNG) would be stored in subsurface caverns and surface reservoirs. Combined storage of planned LNG projects would be 8.2 million barrels. Total storage of all planned projects--LNG and natural gas storage--would be equivalent to about 420 billion cubic feet of natural gas.

TABLE 10. - Future gas storage facilities, by State

State	Natural gas		Liquefied natural gas	
	Number of projects	Capacity, billion cubic feet	Number of projects	Capacity, thousand barrels
Georgia.....	-	-	2	1,650
Illinois.....	1	112.0	-	-
Indiana.....	2	7.8	1	650
Maryland.....	-	-	1	1,500
Massachusetts.	-	-	1	974
Michigan.....	7	157.1	-	-
North Carolina	-	-	1	174
Ohio.....	1	115.0	-	-
Pennsylvania..	1	2.7	1	1,186
Rhode Island..	-	-	1	1,780
South Carolina	-	-	1	290
Total....	12	394.6	9	8,204

Future Uranium Enrichment Facilities

Six uranium enrichment plants are planned in the Eastern States. Five would be located in Florida, and one, in Ohio.

LISTING OF FUTURE FUEL-RELATED PROJECTS IN THE EASTERN STATES

This section is an individual listing of fuel-related projects in the Eastern States (tables 11-112). The listing is segregated by State and by type of project. At the beginning of each State segment is an index map that indicates project locations (figs. 2-27).

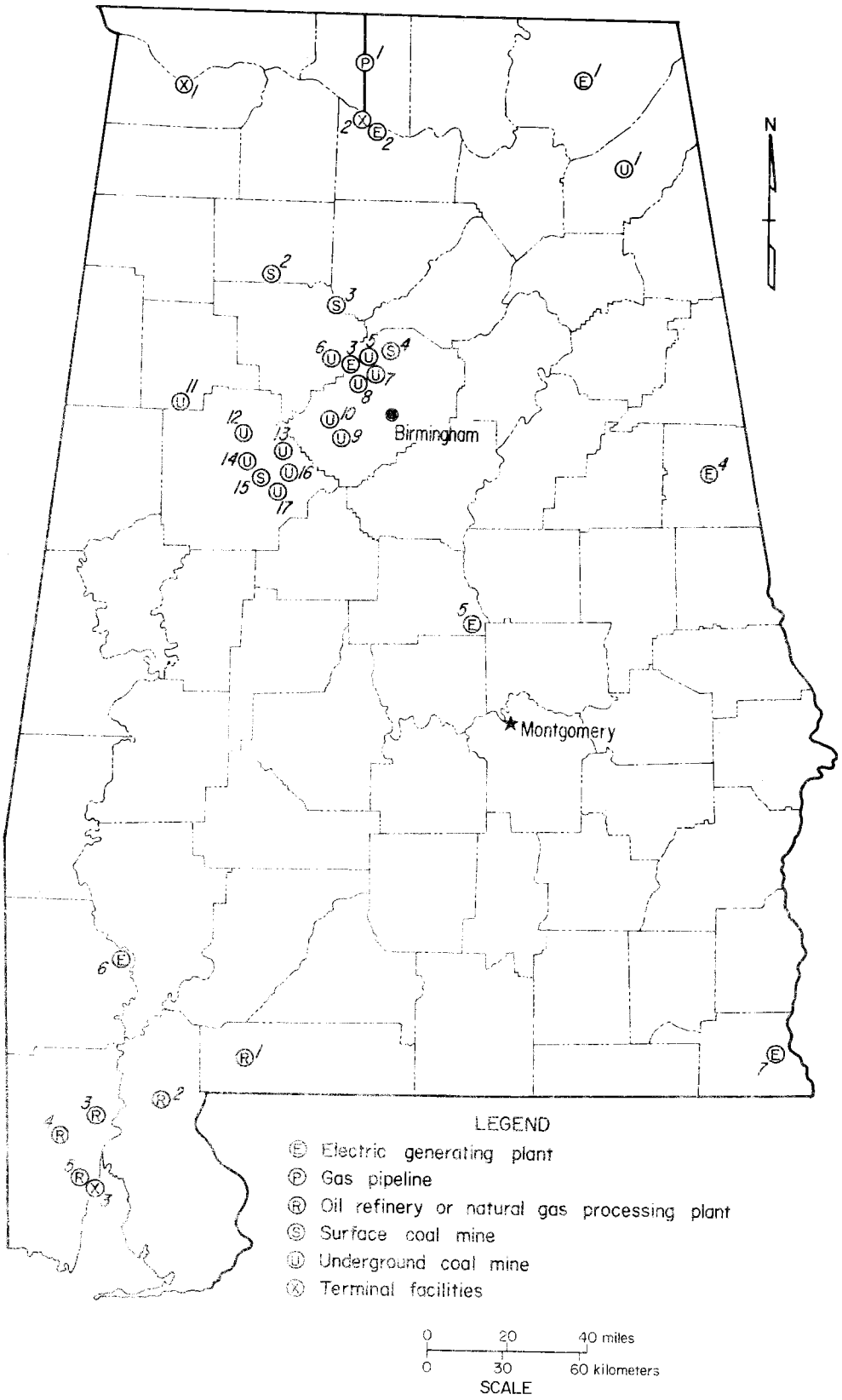

FIGURE 2. - Future fuel-related projects in Alabama.

TABLE 11. - Future coal mines in Alabama

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Unnamed - Northeastern Alabama (possibly DeKalb County)	Canamex Coal Corp. subsidiary of Canamex Commodity Corporation, San Francisco, CA.	Underground	-	Metallurgical & Steam	-	-	-	-	-	-
S2	Brilliant - Winston County	Coalite, Inc., Div. Brilliant Coal Co., sub. of Great Northern Nekoosa Corp., Jasper, AL.	Strip	1.0 - 1980	Steam & retail	S - .5-2.5% Btu- 13,330-14,850 Ash- 1.2-8.0 Moisture - 1.9-5.8%	28	-	17	-	All analyses are Bureau of Mines - "As received."
S3	Unnamed - Cullman and Walker Counties	King Coal Co., sub. of U.S. Home Corp., Clearwater, FL.	do.	0.5 - -	Metallurgical	S - 0.9-1.4% Btu- 14,000-14,200 Ash- 5.2-5.7	-	-	-	-	Do.
S4	Unnamed - Jefferson County	Alabama By-products Corp., Birmingham, AL.	do.	0.25 - 1977	do.	-	-	-	-	-	-
U5	Mary Lee No. 2 - Walker County	do.	Underground	0.75 - 1978	do.	S - 0.5-2.6% Btu- 11,660-13,800 Ash-6.8-16.7 Moisture - 1.2-4.0%	42	580	77	130	All analyses are Bureau of Mines - "As received."
U6	North Mulga - Jefferson County	Mead Corporation, Woodward, AL.	do.	0.5 - 1980	-	S - 0.5-2.7% Btu- 12,800-14,060 Ash-3.5-13.9 Moisture - 0.8-2.8%	34-66	-	-	-	Do. Planning stage.
U7	Nebo - Jefferson County	U.S. Pipe and Foundary Co., sub. Jim Walter Corp., Birmingham, AL.	do.	0.25 - 1977	Metallurgical	S - 0.5-2.6% Btu- 12,800 Ash-6.8-16.7 Moisture - 1.2-4.0%	52	600	45	-	All analyses are Bureau of Mines - "As received."
U8	Mary Lee - Jefferson County	Mead Corporation, Woodward, AL.	do.	1.0 - 1984	-	S - 0.5-2.6% Btu- 11,600-13,800 Ash-6.8-16.7 Moisture - 1.2-4.0%	42	-	-	-	Do. Planning stage.

TABLE 11. - Future coal mines in Alabama - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U9	Blue Creek No. 3 - Jefferson County	U.S. Pipe and Foundry Co., sub. Jim Walter Corp., Birmingham, AL.	Under-ground	1.5 - 1977	Steam & metal-lurgical	S - 0.7-1.0% Btu- 13,530 Ash-8.7-19.8 Moisture - 2.4-3.9%	41-78	1,600	418	-	All analyses are Bureau of Mines - "As received."
U10	Oak Grove - Jefferson County	U.S. Steel Corp., Pittsburgh, PA.	do.	3.0 - 1978	Metal-lurgical	S - 0.7-1.0 Btu- 13,340-13,790 Ash-8.7-19.8 Moisture - 2.4-3.9%	54	1,300	86	-	Do.
U11	North River No. 1 - Fayette County	Republic Steel, Cleveland, OH.	do.	2.0 - 1978	Steam	S - 0.5-2.7 Btu- 12,800-14,060 Ash-3.5-13.9 Moisture - 0.8-2.8%	52	525	420	-	Do.
U12	Blue Creek - Tuscaloosa County	Mead Corporation, Woodward, AL.	do.	0.4 - 1985	-	S - 0.7-1.0% Btu- 13,340-13,790 Ash-6.8-19.8 Moisture - 2.4-3.9 %	41-78	-	-	-	Do.
U13	Blue Creek No. 4 - Tuscaloosa County	U.S. Pipe and Foundry Co., sub. Jim Walter Corp., Birmingham, AL.	do.	2.0 - 1980	Steam	S - 0.7-1.0% Btu- 13,530 Ash-8.7-19.8 Moisture - 2.4-3.9%	41-78	2,000	147	-	Do.
U14	Blue Creek No. 7 - Tuscaloosa County	do.	do.	2.0 - 1981	Metal-lurgical (Japan)	S - 0.7-1.0% Btu- 13,530 Ash-8.7-19.8 Moisture - 2.4-3.9%	41-78	2,500	-	-	Do.
S15	Various mines - Tuscaloosa County	Drummond Company, Jasper, AL.	Strip	3.0 - 1983	Steam, retail, metal-lurgical	S - 0.7-1.5% Btu- 12,230-14,630 Ash-5.2-16.3 Moisture - 1.8-5.7%	-	-	-	-	Do.
U16	Blue Creek No. 5 - Tuscaloosa County	U.S. Pipe and Foundry Co., sub. Jim Walter Corp., Birmingham, AL.	Under-ground	2.0 - 1981	Metal-lurgical (Japan)	S - 0.7-1.0% Btu - 13,530 Ash-8.7-19.8 Moisture - 2.4-3.9%	41-78	2,500	101	-	Do.

TABLE 11. - Future coal mines in Alabama - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U17	Unnamed - Kellerman, Tuscaloosa County	Tuscaloosa Resources Corp., Federal Resources Corp., Salt Lake City, UT.	Under-ground	2.0 - 1980	Metal-lurgical (Japan)	S - 0.7% Btu- 14,000 Ash- 9.5	-	1,500	-	-	-

TABLE 12. - Future electric generating plants in Alabama

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Bellefonte - Scottsboro, Jackson County	TVA, Chattanooga, TN.	Nuclear	1	1,332	1980	2,000	150	-
			do.	2	1,332	1981	2,000	150	
E2	Browns Ferry - Decatur, Morgan County	do.	do.	3	1,152	1976	4,000	200	First two units completed.
E3	James Miller - Jefferson County	Alabama Power Company, Birmingham, AL.	Coal - 1.5	1	880	1978	1,790	100	-
			Coal - 1.5	2	880	1980	1,790	100	
			Coal - 1.5	3	880	1982	1,790	100	
E4	West Jefferson - Jefferson County	do.	Coal	1	660	1978	1,340	150	-
			do.	2	660	1979	1,340	150	
			do.	3	660	1980	1,340	150	
			do.	4	660	1981	1,340	150	
E5	Harris - Wadowee, Randolph County	do.	Hydro	1	135	1979	270	35	-
			do.	2	135	1979	270	35	
E6	Alan Barton - Chilton County	do.	Nuclear	1-4	4,800	-	4,000	275	Completion postponed indefinitely.
E7	Tombigbee - Washington County	Alabama Power Cooperative, Inc., Andalusia, AL.	Coal - .3	2	210	1978	400	50	-
			Coal - .3	3	210	1979	400	50	
E8	Joseph Farley - Dothan, Houston County	Alabama Power Company, Birmingham, AL.	Nuclear	1	860	1977	2,500	250	-
			Nuclear	2	860	1979	2,500	250	

TABLE 13. - Future oil and gas pipelines in Alabama

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Amoco Pipeline Company, Chicago, IL.	Whiting, IN.	Decatur, AL.	500	Oil	Jan. 1978	8	-	-	-

TABLE 14. - Future terminal facilities in Alabama

Map Ref. No.	Terminal location	Operating company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Pride, Mobile County	Southern Railway, Washington, D.C.	Coal transloader	10-12 million tons per year	1977	-	-	Barge to rail, full capacity expected in five years.
X2	Decatur, Morgan County	Alabama State Docks Department, Mobile, AL.	do.	Unknown	-	-	-	Rail to barge, mile 301.3 on the Tennessee River.
X3	Jacintoport, Mobile County	Mobile River Coal Handling Facility, Inc. Mobile, AL.	Coal storage and handling facility	10 million tons per year	-	-	-	Storage facility for McDuffie Terminal near Mobile, AL.

TABLE 15. - Future oil refineries in Alabama

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R2	Stockton - Baldwin County	Tensaw Refining Company	5	-	-	30	-
R5	Jacintoport - near Saraland, Mobile County	Louisiana Land and Exploration Company, New Orleans, LA.	30	1975	-	30	-

TABLE 16. - Future natural gas processing plants in Alabama

Map Ref. No.	Plant name and location	Operating company	Throughput capacity (million cubic feet per day)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Mallard - near Atmore, Escambia County	Mallard Exploration, Inc., Midland, TX.	71	1977	150	40	-
R3	Hatters Pond - Mobile County	Getty Oil Company, Houston, TX.	32	1978	-	10	-
R4	Chunchula - Mobile County	Union Oil Company	14	1976	-	-	-

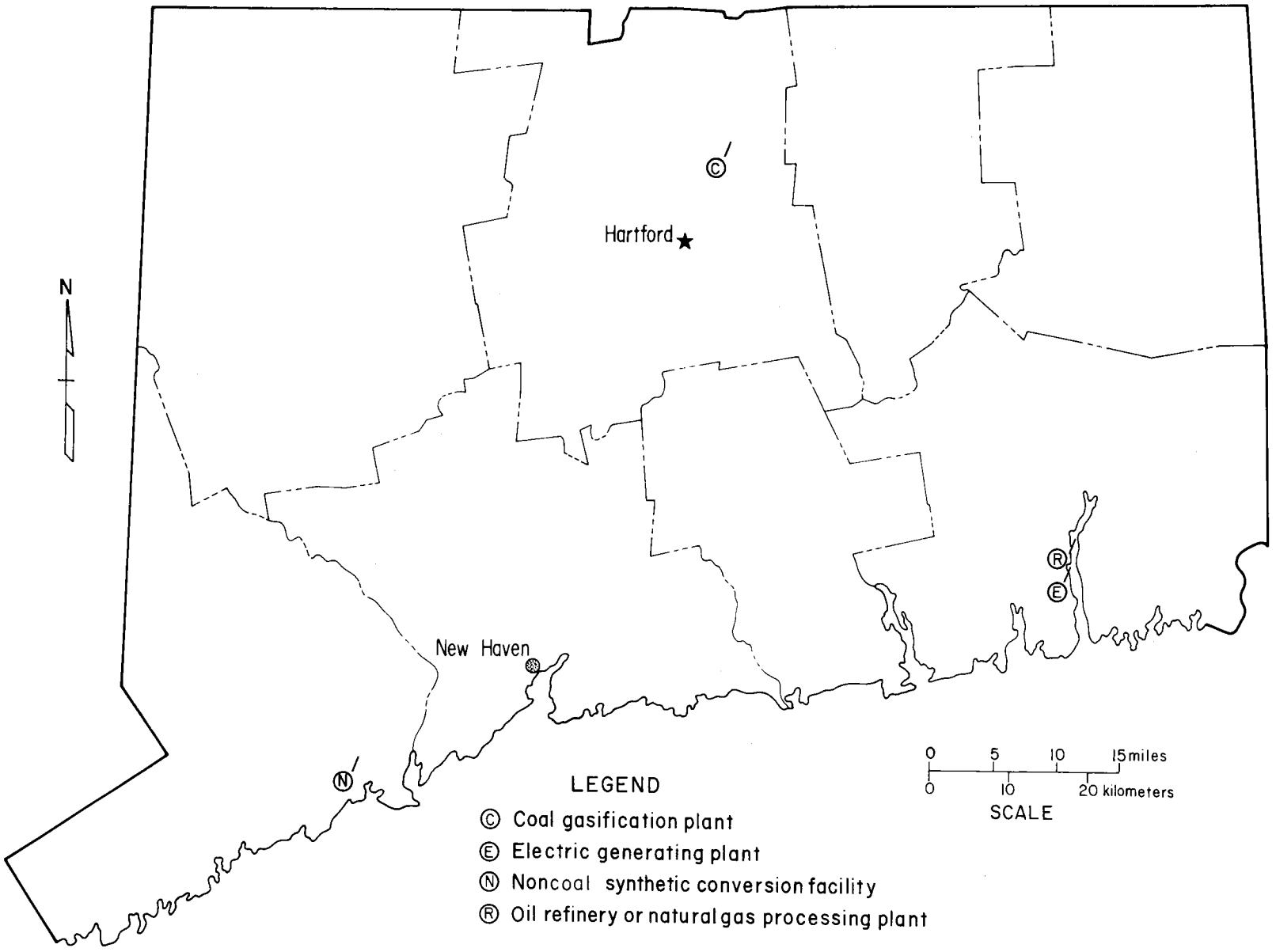

FIGURE 3. - Future fuel-related projects in Connecticut.

TABLE 17. - Future electric generating plants in Connecticut

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Millstone Nuclear Power Station - Hartford, New London County	Northeast Utilities Service Company, Hartford, CT.	Nuclear	3	1,150	1982	1,180	90	-

TABLE 18. - Future coal conversion plants in Connecticut

Map Ref. No.	Plant name and location	Operating company	Type and process	Estimated output (million cf/day or bbls/day)	Initial operating date	Peak employment		Remarks
						Construction	Operation	
C1	Unnamed - Windsor, Hartford County	Combustion Engineering, New York, N.Y.	Gasification	To produce up to 3.2 MMCF	1977	100	30	Partially funded by ERDA.

TABLE 19. - Future noncoal synthetic conversion plants in Connecticut

Map Ref. No.	Plant name and location	Operating company	Type	Estimated capacity	Initial operation date	Peak employment		Remarks
						Construction	Operation	
N1	Unnamed - Bridgeport, Fairfield County	Connecticut Resources Recovery Authority, Hartford, CT.	Solid waste	1,700 tons per day	1978	-	75	Will yield 34 billion Btu's per day in powdered waste to be used as boiler fuel.

TABLE 20. - Future oil refineries in Connecticut

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	IN-O-VEN - New London, New London County	IN-O-VEN Corporation	400	-	4,000	2,000	Proposed - site would include a tanker terminal.

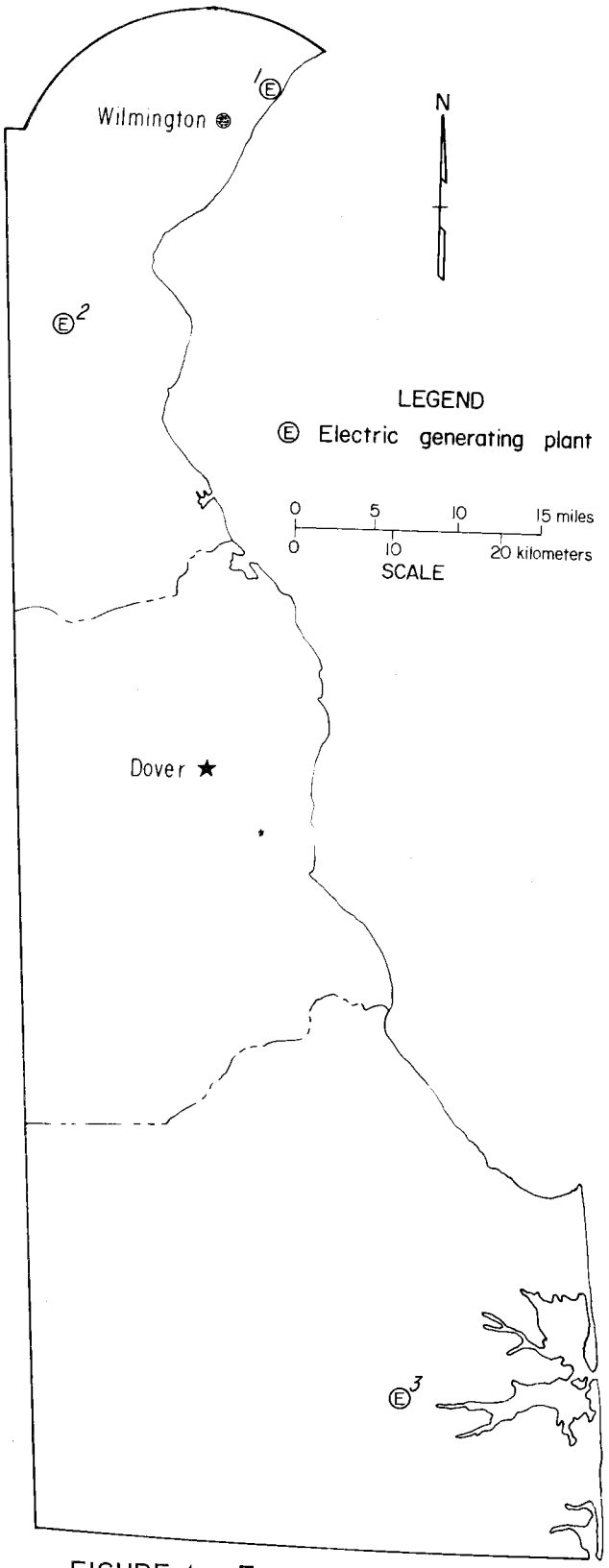

FIGURE 4. - Future fuel-related projects in Delaware.

TABLE 21. - Future electric generating plants in Delaware

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Edge Moor - Edge Moor, New Castle County	Delmarva Power and Light Company (Northern Div.), Wilmington, DE.	Coal	-	400	1979	810	90	Expansion at existing facility.
E2	Summit Power - Summit, New Castle County	do.	Uranium	1	770	1981	790	60	-
			do.	2	770	1984	790	60	-
E3	Indian River - Millsboro, Sussex Co.	Delmarva Power and Light Company (Southern Div.), Salisbury, MD.	Coal	4	400	1979	800	25	Addition of new unit at existing facility.

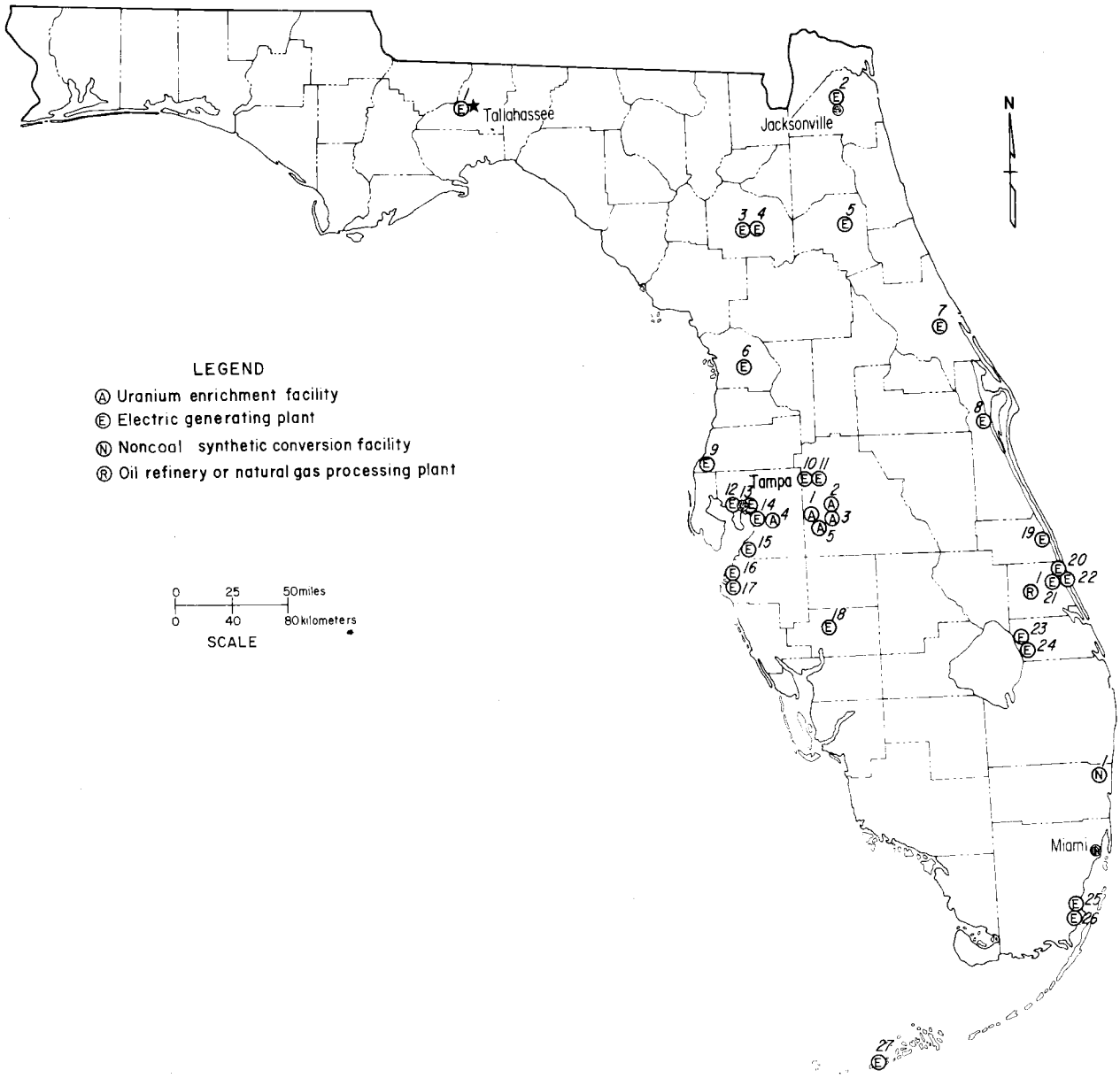

FIGURE 5. - Future fuel-related projects in Florida.

TABLE 22. - Future electric generating plants in Florida

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Hopkins - Tallahassee, Leon County	City of Tallahassee, Tallahassee, FL.	Oil	2	235	1977	-	-	-
E2	Northside - Jacksonville, Duval County	Jacksonville Electric Authority, Jacksonville, FL.	Oil	3	540	1976	1,100	125	-
E3	Deer Haven - Gainsville, Alachua County	City of Gainsville, Gainsville, FL.	Oil	A&B	40	1976	-	-	-
E4	do.	do.	Oil	-	235	1979	-	-	-
E5	Putnam - Palatka, Putnam County	Florida Power & Light Company, Miami, FL.	Oil	1&2	580	1976	1,180	130	Combined cycle.
E6	Crystal River Plant - Red Level, Citrus County	Florida Power Corp., St. Petersburg, FL.	Nuclear	3	825	1976	840	65	-
E7	DeBary - Volusia County	do.	Gas	1-6	260	1976	-	-	Gas turbine - includes 6 units.
E8	Indian River - Rockledge, Brevard County	Orlando Utilities Commission, Orlando, FL.	Oil	1	108	1982	-	-	-
E9	Anclote - New Port Richey, Pasco County	Florida Power Corp., St. Petersburg, FL.	Oil	2	510	1977	1,140	120	-
E10	Plant No. 3 - Lakeland, Polk County	City of Lakeland, Lakeland, FL.	Oil	2	125	1976	-	-	-
E11	do.	do.	Coal	3	425	1981	860	100	-
E12	Big Bend - Tampa, Hillsborough County	Tampa Electric Company, Tampa, FL.	Coal	3	446	1976	900	100	-
E13	do.	do.	Coal	1c&2c	50	1977	-	-	Includes 2 units.
E14	do.	do.	Coal	4	425	1981	860	100	-
E15	Beacon Key - Ruskin, Hillsborough County	do.	Coal	-	425	1985	860	100	-
E16	Manatee - Port Manatee, Manatee County	Florida Power & Light Company, Miami, FL.	Oil	1	850	1976	1,725	200	-
E17	do.	do.	Oil	2	850	1977	1,725	200	-

TABLE 22. - Future electric generating plants in Florida - continued

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity Unit No.	Capacity Mega-watts	Initial operating date	Peak employment Construction	Peak employment Operation	Remarks
E18	De Sota - Arcadia, De Sota County	Florida Power & Light Company, Miami, FL.	Nuclear	1	1,250	1985	1,275	100	-
E19	Municipal Plant - Vero Beach, Indian River County	City of Vero Beach, Vero Beach, FL.	Oil	4	62	1976	-	-	-
E20	King - Fort Pierce, St. Lucie County	City of Fort Pierce, Ft. Pierce, FL.	Oil	8	60	1976	-	-	-
E21	St. Lucie Plant - Fort Pierce, St. Lucie County	Florida Power & Light Company, Miami, FL.	Nuclear	1	820	1976	840	65	-
E22	do.	do.	Nuclear	2	820	1980	840	65	-
E23	Martin - Lake Okeechobee, Martin Co.	do.	Oil	1	850	1979	1,725	195	-
E24	do.	do.	Oil	2	850	1981	1,725	195	-
E25	South Dade - South Dade, Dade County	do.	Nuclear	1	1,250	1983	1,275	100	-
E26	do.	do.	Nuclear	2	1,250	1985	1,275	100	-
E27	Unnamed - Key West, Monroe County	Key West Utilities Board, Key West, FL.	-	-	30	1981	-	-	-

TABLE 23. - Future noncoal synthetic conversion plants in Florida

Map Ref. No.	Plant name and location	Operating company	Type	Estimated capacity	Initial operating date	Peak employment Construction	Peak employment Operation	Remarks
N1	Unnamed - Pompano Beach, Broward County	Waste Management, Inc., Pompano Beach, FL.	Gasification	100 tons of solid waste per day	-	-	-	Construction to begin in 1976.

TABLE 24. - Future oil refineries in Florida

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Radenburgh Ranch, St. Lucie County	Ashland Petroleum Company, Ashland, KY.	250	-	-	-	Land has recently been acquired.

TABLE 25. - Future uranium mills and enrichment facilities in Florida

Map Ref. No.	Plant name and location	Operating company	Type	Initial operating date	Planned capacity	Peak employment		Remarks
						Construction	Operation	
A1	Unnamed - Mulberry, Polk County	United Nuclear Corporation, Elmstead, N.Y. AND International Minerals and Chemical Company, Libertyville, IL.	Acid separation	1977	-	-	-	Two modules to be installed at the IMC Co. phosphoric acid plant in Mulberry, FL.
A2	Unnamed - Bartow, Polk County	United Nuclear Corporation, Elmstead, N.Y. AND W. R. Grace Company, Cambridge, MA.	do.	1977	-	-	-	One module completed and another being built at the Grace phosphoric acid plant in Barton, FL.
A3	Unnamed - near Bartow, Polk County	United Nuclear Corporation, Elmstead, N.Y.	do.	1977	450,000 pounds per year concentrated	-	-	Secondary concentration facility.
A4	Unnamed - East Tampa, Hillsborough County	Gardivier, Inc., East Tampa, FL.	do.	-	-	-	-	Permitted by Florida Department of Health Services.
A5	Unnamed - Mulberry, Polk County	Westinghouse Electric Corporation, Lalceland, FL. AND Farmland Industries, Mulberry, FL.	do.	-	-	-	-	Applied for operating permit from the Florida Department of Health Service.

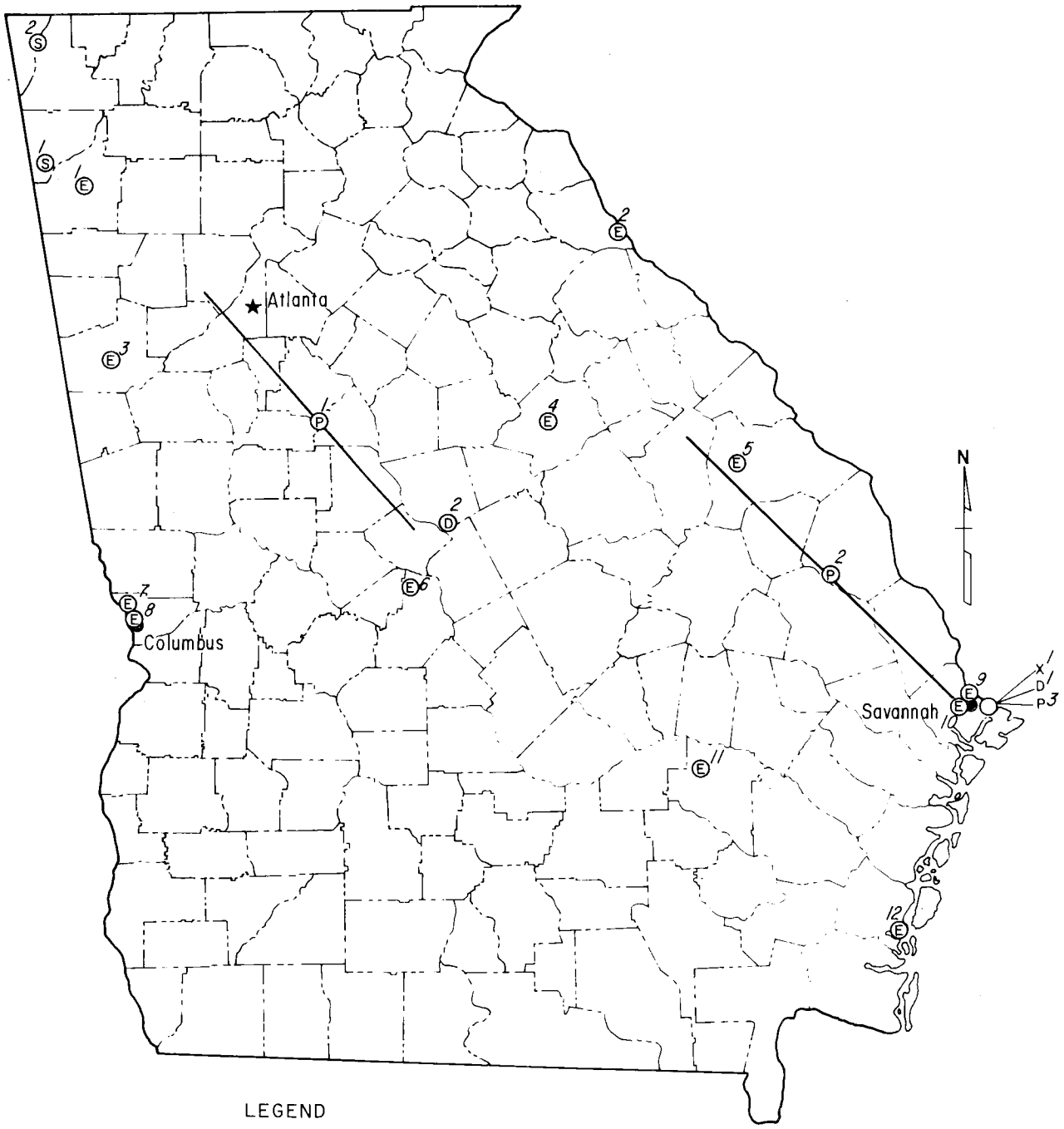

FIGURE 6. - Future fuel-related projects in Georgia.

TABLE 26. - Future coal mines in Georgia

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
S1	Unnamed - near Cloudland, Chatooga County	Alabama Mecal-lurgical Coals, Inc., Montgomery, AL.	Strip	-	Metal-lurgical	S - 0.42% Ash - 3.0% Moisture - 0.46%	18-20	-	-	-	State permit requested.
S2	Unnamed near Trenton, Dade County	Hoover Company	do.	-	do.	S - 0.52% Btu- 14,575 Ash - 3.4% Moisture - 1.93%	24-30	-	-	-	No permit requested, but inquiries made to state agency.

TABLE 27. - Future electric generating plants in Georgia

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity Unit No.	Capacity Mega-watts	Initial operating date	Peak employment Construction	Peak employment Operation	Remarks
E1	Rocky Mountain - Rome, Floyd County	Georgia Power Company, Atlanta, GA.	Hydroelectric	2	675	1981	550	-	Pumped storage - temporarily off planning
E2	Richard B. Russell Dam - Elberton, Elbert County	U. S. Army Corps of Engineers	do.	-	300	1982-85	1,200	10	Capacity to 600 MW if pumped storage is approved.
E3	Wansley - Carrollton, Heard County	Georgia Power Company, Atlanta, GA.	Coal - 2.3 Coal - 2.3	1 2	865 865	1976 1978	1,950 1,950	300 300	- -
E4	Wallace - Sparta, Hancock County	do.	Hydroelectric do.	1,2,6 3,4,5	159 165	1980 1981	500 500	- -	Pumped storage. Do.
E5	Vogtle - Waynesboro, Burke County	do.	Uranium	1 2	1,160 1,160	1983 1984	2,600 2,600	- -	- -
E6	Sherer - Forsyth, Monroe County	do.	Coal - 4.2 Coal - 2.1 Coal - 2.1	1&2 3 4	1,636 818 818	1982 1983 1984	1,700 - -	500 - -	Employment for all units.
E7	Bartlett's Ferry - 15 mi. N. of Columbus, Muscogee County	do.	Hydroelectric	5&6	100	1980	-	-	On Chattahoochee River.
E8	Goat Rock - 5 mi. N. of Columbus, Muscogee County	do.	do.	7&8	68	1981	-	-	Do.
E9	Port Wentworth - Savannah, Chatham County	Savannah Electric and Power Company, Savannah, GA.	Coal - 0.1 Coal - 0.1 Coal - 0.2	1 2 3	50 54 103	1978 1978 1978	- - -	- - -	Under FEA orders to convert from No. 6 fuel oil to coal.
E10	Effingham - near Savannah, Chatham County	do.	Oil	1	850	1978	-	-	-
E11	Edwin I. Hatch - Baxley, Appling County	Georgia Power Company, Atlanta, GA.	Uranium	2	820	1979	1,800	-	Under construction.
E12	McManus - Brunswick, Glynn County	do.	Coal - 0.1 Coal - 0.2	1 2	40 75	- -	- -	- -	Under FEA orders to convert from No. 6 fuel oil to coal.

TABLE 28. - Future terminal facilities in Georgia

Map Ref. No.	Terminal location	Operating Company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Elba Island, near Savannah, Chatham County	Southern Natural Gas Co. Birmingham, AL.	Offshore LNG	-	1977	-	-	Terminal handles one 100,000 ton tanker at a time.

TABLE 29. - Future oil and gas pipelines in Georgia

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Colonial Pipeline Co., Atlanta, GA.	Powder Springs, Cobb County	30 miles S.W. of Macon	137	Pet. prod.	1976	12	200	2	Existing 8 inch line may be removed from service.
P2	Southern Natural Gas Company, Birmingham, AL.	Savannah, Chatham County	Wrens, Jefferson County	104	Gas	1976	20	-	-	-
P3	do.	Elba Island, near Savannah Chatham County	Savannah, Chatham County	27	Gas	1976	30	-	-	Distribution of LNG from Elba Island terminal

TABLE 30. - Future gas storage projects in Georgia

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construc-tion	Opera-tion	
D1	Elba Island LNG Project - Savannah, Chatham County	Southern Natural Gas Company, Birmingham, AL.	Con-structed	4,041 MM cf/day	457 MM cf/day	1977	300	45	LNG will be imported from Algeria. The facilities could be operational in mid-1976 but Algerian construction has been delayed at least a year. Elba Island construction rate has been cut back to mesh with new time schedule.
D2	Macon LNG Plant - Jones County	Atlanta Gas Light Company, Atlanta, GA.	Con-structed	1,525 MM cf/day	100 MM cf/day	1977-78	-	-	-

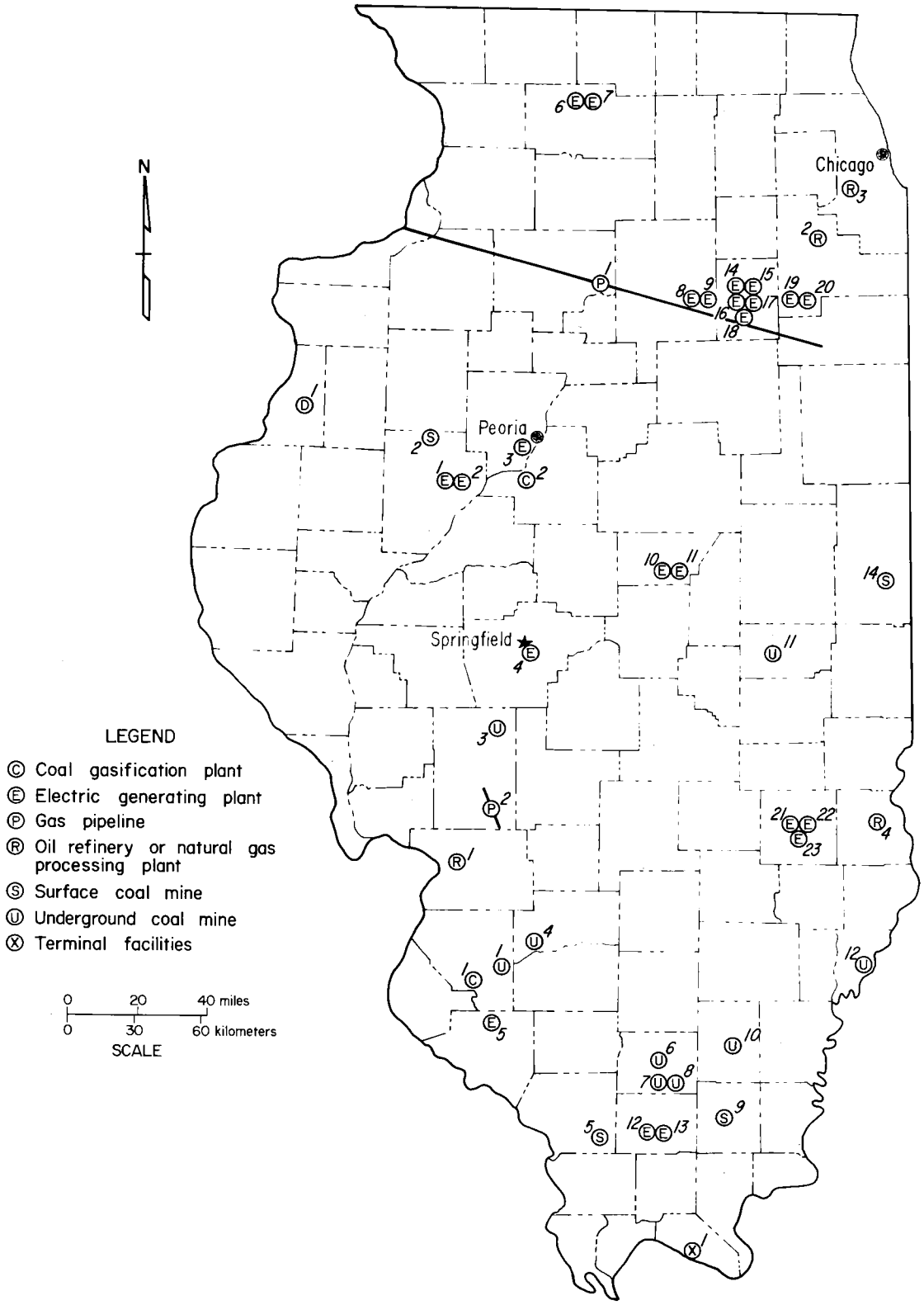

FIGURE 7. - Future fuel-related projects in Illinois.

TABLE 31. - Future coal mines in Illinois

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Zeigler No. 11 - St. Clair County	Zeigler Coal Co., Chicago, IL.	Underground	2.0 by 1979	Steam	-	84	200	-	450	-
S2	Rapatee - Fulton, Knox County	Midland Coal Co., Trivoli, IL.	Strip	0.7 by 1977	do.	Ill. No.5&6	48	65	-	110	Initial production 7/76.
U3	Crown No. 2 - Macoupin County	Freeman-United Coal Mining Co., Chicago, IL.	Underground	2.4 by 1977	do.	Ill. No. 6	84	330	-	450	Initial production 3/76.
U4	Monterey No. 2 - Clinton County	Monterey Coal Co, Carlinville, IL.	do.	3.6 by 1980	do.	Ill. No. 6	88	320	-	650	-
S5	Burning Star No. 5 - Jackson County	do.	do.	2.8 by 1977	do.	-	-	100	-	225	Initial production 1976.
U6	Orient No. 5 - Franklin County	Freeman-United Coal Mining Co., Chicago, IL.	Underground	1.5 -	do.	Ill. No. 6	108	600	-	280	Possible reopening.
U7	Old Ben No. 25 - West Frankfort, Franklin County	Old Ben Coal Co., Chicago, IL.	do.	2.0 by 1981	do.	Ill. No. 6	96	600	-	450	-
U8	Old Ben No. 27 - West Frankfort, Franklin County	do.	do.	2.0 by 1981	do.	Ill. No. 6	86	600	-	450	-
S9	New Delta - Saline County	Amax Coal, Indianapolis, IN.	Strip	2.4 by 1978	do.	-	-	-	-	165	Expansion of existing mine.
U10	Inland No. 2 - McLeansboro, Hamilton County	Inland Steel Co., Chicago, IL.	Underground	2.5 by 1981	do.	Ill. No. 5	66	950	-	500	-
U11	Zeigler No. 5 - Murdock, Douglas County	Zeigler Coal Co., Chicago, IL.	do.	3.0 by 1977	do.	Ill. No. 6	-	-	125	-	Expansion.
U12	Wabash - Wabash County	Amax Coal, Indianapolis, IN.	do.	3.6 by 1977	do.	Ill. No. 5 S - 2.5% Ash - 10% Btu - 11,000	80	800	390	-	Expansion.
S13	Ayrcat - Catlin Township, Vermillion County	do.	Strip	1.5 by 1978	do.	-	-	-	-	165	-

TABLE 32. - Future electric generating plants in Illinois

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Duck Creek - Canton, Fulton County	Central Illinois Light Co., Peoria, IL.	Coal - 1.08	1	400	1976	-	-	-
E2	do.	do.	Coal - 1.08	2	400	1980	-	-	-
E3	Edwards - Bartonville, Peoria County	do.	Coal - 1.35	4	500	1982	1,020	115	-
E4	V. Y. Dallman - Springfield, Sangamon County	City of Springfield, Springfield, IL.	Coal - 0.54	3	200	1977	-	-	-
E5	Baldwin - Baldwin, Randolph County	Illinois Power, Decatur, IL.	Coal - 1.71	3	635	1976	1,290	150	-
E6	Byron Station - Byron, Ogle County	Commonwealth Edison Co., Chicago, IL.	Uranium	1	1,120	1980	1,150	90	-
E7	do.	do.	do.	2	1,120	1982	1,150	90	-
E8	LaSalle County Nuclear Station - LaSalle County	Commonwealth Edison Co., Hammond, IN.	do.	1	1,078	1978	1,100	90	-
E9	do.	do.	do.	2	1,078	1979	1,100	90	-
E10	Clinton Nuclear Power Plant - Clinton, DeWitt County	Illinois Power Co., Decatur, IL.	do.	1	993.4	1981	950	75	-
E11	do.	do.	do.	2	933.4	1984	950	75	-
E12	Marion - Marion, Williamson County	Southern Illinois Power Coop., Marion, IL.	Coal - 0.43	4	160	1978	-	-	-
E13	do.	do.	Coal - 0.40	5	150	1983	-	-	-
E14	Collins - Morris, Grundy County	Commonwealth Edison Co., Chicago, IL.	Oil	1	500	1978	1,020	115	-
E15	do.	do.	Oil	2	500	1977	1,020	115	-
E16	do.	do.	Oil	3	500	1976	1,020	115	-
E17	do.	do.	Oil	4	500	1976	1,020	115	-
E18	do.	do.	Oil	5	500	1977	1,020	115	-

TABLE 32. - Future electric generating plants in Illinois - continued

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E19	Braidwood - Braidwood, Will County	Commonwealth Edison Co., Chicago, IL.	Uranium	1	1,120	1981	1,150	90	-
E20	do.	do.	do.	2	1,120	1982	1,150	90	-
E21	Newton - Newton, Jasper County	Central Illinois Public Service, Springfield, IL.	Coal - 1.55	1	575	1977	1,170	130	-
E22	do.	do.	Coal - 1.55	2	575	1981	1,170	130	-
E23	do.	do.	Coal - 1.48	3	550	1983	1,120	130	-

TABLE 33. - Future coal conversion plants in Illinois

Map Ref. No.	Refinery name and location	Operating company	Type and process	Estimated output (million cf/day or bbls/day)	Initial operating date	Peak employment		Remarks
						Construction	Operation	
C1	Coal Conversion Demonstration Plant - New Athens, St. Clair County	Coalcon, New York City, N.Y.	Hydro-carbonization - gas and liquid from 2,600 tons per day coal	22 MM cf/day 3,900 bbls/day	1980	1,000	400	Demonstration plant - first stage toward a commercial plant.
C2	Powerton Project - Pekin, Tazewell County	Commonwealth Edison, Chicago, IL.	Lurgi gasification from 1,400 tons per day coal	192 MM cf/day Low BTU gas	1978	-	-	Demonstration.

TABLE 34. - Future oil and gas pipelines in Illinois

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Northern Border Pipeline Project	Corodva, Rock Island County	Kankakee, Kankakee County	140	Gas	-	-	-	-	-
P2	Illinois Power Co. - Decatur, IL.	Staunton, Macoupin County	Gillespie, Macoupin County	7	Gas	1978	6	-	-	-

TABLE 35. - Future terminal facilities in Illinois

Map Ref. No.	Terminal location	Operating Company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Metropolis, Massac County	American Electric Power System, New York City, N.Y.	Coal transloader	10 million tons per year	1976	-	-	Rail to barge - initial capacity is 1.5 million tons per year.

TABLE 36. - Future oil refineries in Illinois

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Blue Island, Hartford, Madison County	Clark Oil and Refining Corporation. Milwaukee, WI.	-	1976	-	-	Expansion - 19,200 barrels.
R2	Lockport, Will County	Texaco, New York City, N.Y.	72	1976	-	-	Expansion - 14,000 barrels.
R3	Lemont - Cook County	Union Oil of California, Los Angeles, CA.	-	1976	-	-	Expansion - 19,500 barrels coke.
R4	Robinson - Crawford County	Marathon Oil Company, Findlay, OH.	-	1976	-	-	Expansion - 19,900 barrels coke.

TABLE 37. - Future gas storage projects in Illinois

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construc-tion	Opera-tion	
D1	Media - Henderson County	Mid-Continent Gas Company	-	112,000 MM cf	-	1976	-	-	-

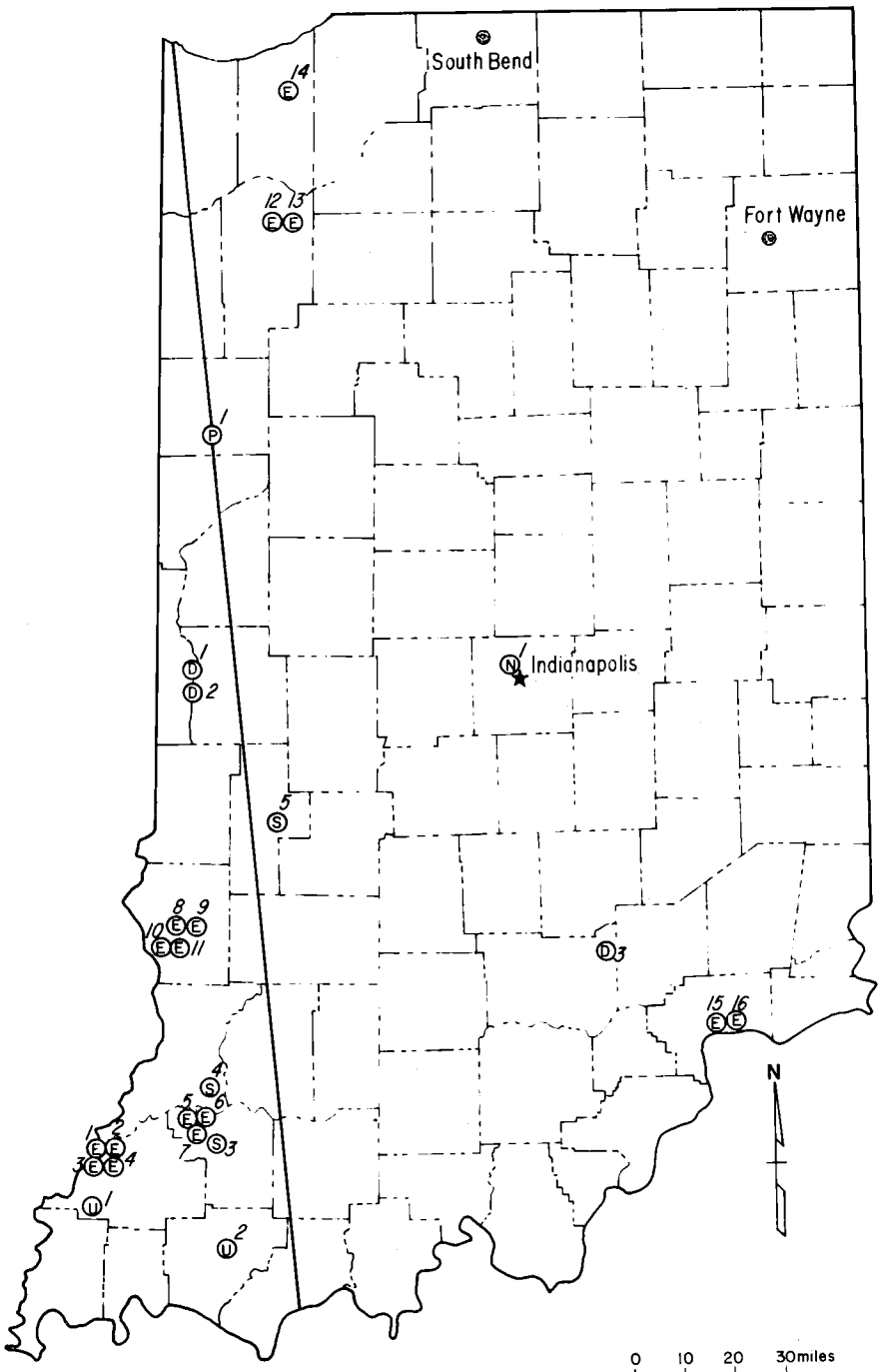

FIGURE 8. - Future fuel-related projects in Indiana.

TABLE 38. - Future coal mines in Indiana

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Unnamed - southwest Gibson County	Old Ben Coal Co. Chicago, IL.	Under-ground	2.0 by 1982	Steam	-	72	450	-	400	-
U2	Spur Mine - 3 miles north of Boonville, Warrick County	Peabody Coal Co., St. Louis, MO.	do.	.5 by 1976	do.	-	72	100 - 300	110	-	Production life - 15 years with total of 3.7 million tons.
S3	Old Ben No. 2 - 4 miles south of Petersburg, Pike County	Old Ben Coal Co., Chicago, IL.	Strip	2.6 by 1977	do.	S - 1.0-15% Btu- 11,000 Ash- 8.5% Moisture- 14.5%	V - 72 VI - 36/48	60 - 100	-	330	-
S4	Unnamed - southeast Knox County	Amax Coal Co., Indianapolis, IN.	do.	1.0 by 1982	do.	-	48 - 60	100	-	130	-
S5	Chinook Mine - Clay County	do.	do.	2.2 by 1978	do.	-	65	100	140	-	Increased capacity of an existing mine.

TABLE 39. - Future electric generating plants in Indiana

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operation date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Gibson - Princeton, Gibson County	Public Service of Indiana, Plainfield, IN.	1.5	2	650	1976	1,320	150	-
E2	do.	do.	1.5	3	650	1978	1,320	150	-
E3	do.	do.	1.5	4	650	1979	1,320	150	-
E4	do.	do.	1.5	5	650	1979	1,320	150	-
E5	Petersburg - Petersburg, Pike County	Indianapolis Power and Light, Indianapolis, IN.	1.2	3	515	1977	1,050	120	-
E6	do.	do.	1.4	4	600	1979	1,220	140	-
E7	do.	do.	1.2	5	515	1981	1,050	120	-
E8	Sullivan - Sullivan, Sullivan County	Indiana and Michigan Electric Company, Fort Wayne, IN.	3.0	1	1,300	1978	2,640	300	-
E9	do.	do.	3.0	2	1,300	1979	2,640	300	-
E10	Merom, Sullivan County	Hoosier Energy, Petersburg, IN.	1.0	-	450	1981	910	100	-
E11	do.	do.	1.0	-	450	1984	910	100	-
E12	Schahfer - Wheatfield, Jasper County	Northern Indiana Public Service, Hammond, IN.	1.2	14	520	1976	1,060	120	-
E13	do.	do.	1.2	15	500	1979	1,020	120	-
E14	Bailey Generating Station - Westchester, Porter County	do.	Nuclear	-	645	-	660	50	-
E15	Marble Hill Nuclear Station - Madison, Jefferson County	Public Service of Indiana, Plainfield, IN.	Nuclear	1	1,130	1982	1,150	90	-
E16	do.	do.	Nuclear	2	1,130	1984	1,150	90	-

TABLE 40. - Future noncoal synthetic conversion plants in Indiana

Map Ref. No.	Plant name and location	Operating company	Type	Estimated capacity	Initial operation date	Peak employment		Remarks
						Construction	Operation	
N1	Synthetic Gas Plant/ Rock Island Refinery - Indianapolis, Marion County	Indiana Gas Company, Indianapolis, IN. and Central Indiana Gas Co., Muncie, IN.	Gas from naphtha	60 million cubic feet from 10,000 barrels per day	1978 - 1980	-	-	Construction delayed.

TABLE 41. - Future oil and gas pipelines in Indiana

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Amoco Pipeline Co., Chicago, IL.	Whiting, Lake County, IN.	Decatur, Morgan County, AL.	500	Oil	1978	8	-	-	Petroleum product line.

TABLE 42. - Future gas storage projects in Indiana

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operation date	Peak employment		Remarks
							Construc- tion	Opera- tion	
D1	Montezuma - Vermillion and Parke Counties	Panhandle Eastern Pipeline Company, Houston, TX.	-	3,400 million cubic feet	-	Unknown	-	-	Expansion.
D2	South Alta - Vermillion and Parke Counties	do.	-	4,400 million cubic feet	-	Unknown	-	-	Expansion.
D3	Reddington - Jackson County	Texas Eastern Transmission Corp., Houston, TX.	-	220,400 barrels of propane - 430,000 barrels of butane.	-	1976	-	-	Two underground caverns.

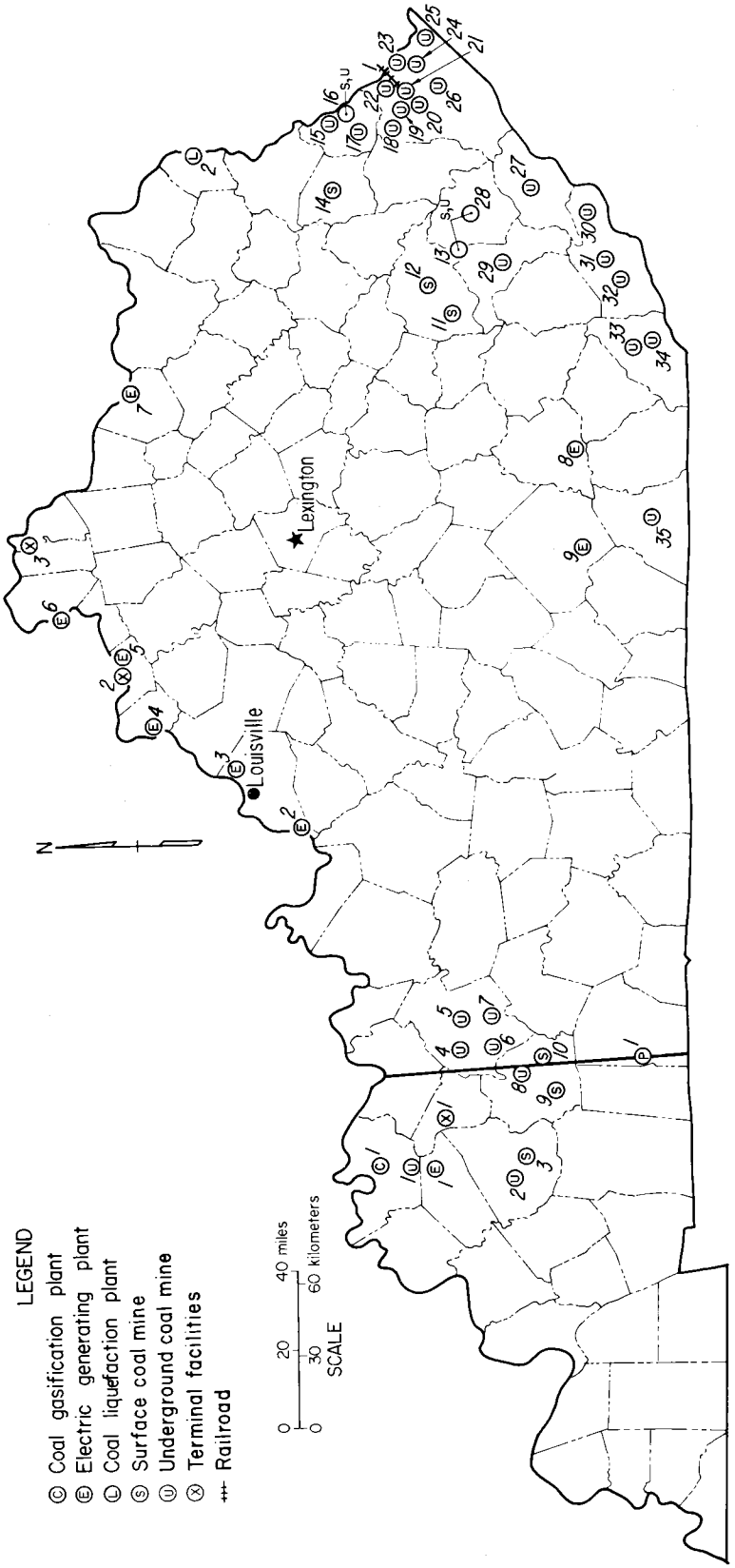

FIGURE 9. - Future fuel-related projects in Kentucky.

TABLE 43. - Future coal mines in Kentucky

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Panama - Henderson County	Peabody Coal Co., St. Louis, MO.	Under-ground	2.3 - 1977	Steam	S - 2.6% Btu- 12,600 Ash - 10%	total= 130 (3 seams)	300-400	100	350	-
U2	No. 9 - Hopkins County	Island Creek Coal Co., Lexington, KY.	do.	1.2 - -	do.	S - 3.2% Btu- 12,900 Ash - 10%	60	200-400	75	250	-
S3	Nortonville - Hopkins County	Pittsburgh and Midway Coal Mining Co., Kansas City, MO.	Strip	1.0 - 1979	do.	Btu- 12,000	72	75-100	75	125	-
U4	Alston No. 4 - Ohio County	Peabody Coal Co., St. Louis, MO.	Under-ground	2.0 - 1976	do.	Btu- over 12,900	60	300-400	300	400	-
U5	Alston No. 3 - Ohio County	do.	do.	2.0 - 1975	do.	Btu- over 12,900	60	300-400	300	400	-
U6	Alston 1-East - Ohio County	do.	do.	1.0 - -	do.	Btu- over 12,900	60	300-400	100	400	-
U7	Alston 1-West - Ohio County	do.	do.	1.0 - -	do.	Btu- over 12,900	60	300-400	100	350	-
U8	Drake No. 5 - Muhlenberg County	Pittsburgh and Midway Coal Mining Co., Kansas City, MO.	do.	0.5 - 1979	do.	Btu- 12,000	72	400	100	400	-
S9	Gibraltar - Muhlenberg County	Gibraltar Coal Corp., Indianapolis, IN.	Strip	2.0 - -	do.	Btu- over 13,000	60	50-125	220	220	-
S10	Sinclair - Muhlenberg County	Peabody Coal Co., St. Louis, MO.	do.	6.0 - 1978	do.	Btu- 13,000	total= 130 (3 seams)	50-125	300	400	-
S11	Oldhouse Branch - Breathitt County	Falcon Coal Co., Inc., Jackson, KY.	do.	1.0-2.0 by 1976	do.	-	-	-	-	400	-
S12	Falcon No. 1 - Breathitt County	do.	do.	0.9 - 1976	do.	-	-	-	-	350	-
S, U13	Various mines in Breathitt, Perry, and Knott Counties	Subsidiaries of American Electric Power	Surface and Under-ground	20.0 - 1985	do.	-	-	-	-	-	-
S14	Unnamed - Johnson County	Addington Bros. Mining Company	Strip	0.5 - -	do.	Btu- over 13,000	40	40	25	125	-

TABLE 43. - Future coal mines in Kentucky - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U15	Pontiki - Martin County	Pontiki Coal Corp. subsidiary of MAPCO, Inc., Tulsa, OK.	Under-ground	1.5 - 1978	Steam & metal-lurgical	Vol.- 35% Fixed- 54% S - 0.8% Btu- 13,200 Ash - 6%	50	-	-	250	-
S, U16	Martiki - Martin County	Martiki Coal Corp. subsidiary of MAPCO, Inc., Tulsa, OK.	Strip and Under-ground	3.0 - 1976	Steam	Vol.- 38% Fixed- 54% S - 0.9% Btu- 12,500 Ash - 9%	total= 246 (4 seams)	up to 700	80	250	-
U17 U18	Unnamed - Pike and Martin Counties	A. T. Massey Coal Co., sub. of St. Joe Minerals Corp, Richmond, VA.	Under-ground	initial production in 1978	Metal-lurgical	-	-	-	-	-	-
U19	Scotts Branch - Pike County	Pickand Mather and Company, Cleveland, OH.	do.	1.3 - 1978	Steam	Btu- 14,500	52	600-900	100	300-500	-
U20	McInnes - Pike County	do.	do.	1.0 - 1979	do.	-	-	-	-	300-500	-
U21	Leslie - Pike County	do.	do.	1.0 - 1978	do.	S - 0.6% Btu- 14,500	52	600-800	125	300-500	Owned by Carolina Power & Light Co.
U22	Big Creek No. 1 and No. 2 -	Island Creek Coal Co., Lexington, KY.	do.	1.3 - 1978	Steam & metal-lurgical	Btu- 14,500	52	600-800	100	500	-
U23	No. 1 - Pike County	Mary Helen Coal Co., Inc. - Indianapolis, IN.	do.	-	Steam	S - 0.9% Btu- 14,000 Ash - 6%	-	-	-	-	-
U24	No. 2 - Pike County	Canada Coal Co., Inc. Pikeville, KY.	do.	1.0 - 1978	Steam & metal-lurgical	S - 0.7% Btu- 12,700 Ash - 7.7%	-	-	100	200	-
U25	Unnamed - Pike County	Kentucky Carbon Corp., sub. of Carbon Fuel Co., Charleston, W.VA.	do.	0.9 - 1976	Metal-lurgical	-	-	-	-	330	-
U26	No. 2 & No. 3 - Pike County	Chapperal Coal Corp., Virgie, KY.	do.	#2 = .4-76 #3 = .4-77	Steam	-	-	-	-	160	-
U27	Eastern Kentucky & Caudill's Branch - Letcher County	Southeast Coal Co, Irvine, KY.	do.	1.0 to 2.0 by 1979	do.	S - 1.3% Btu- 13,800 Ash - 5.8%	42	over 800	200	600	-

TABLE 43. - Future coal mines in Kentucky - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
S, U28	Camp Creek Job - Leslie County	Stansbury & Co., Inc., Cumberland, KY.	Strip and underground	-	Steam	S - 0.9% Btu- 14,000 Ash - 7%	84	-	10	-	Surface operation active -- underground mine under construction.
U29	Unnamed - Perry County	Blue Diamond Coal Co., Knoxville, TN.	Underground	0.3 - 1976	do.	Btu- over 13,000	40	over 800	75	250	-
U30	Lynch - Harlan County	U.S. Steel Coal Operations, Pittsburgh, PA.	do.	1.6 - 1977	Metallurgical	-	-	-	-	-	-
U31	Brookside No. 4 - Harlan County	Eastover Mining Company, Brookside, KY.	do.	0.5 - 1984	Steam	-	-	-	-	170	-
U32	Unnamed - Harlan County	Tampa Electric Co. Tampa, FL.	do.	0.8 - 1976	do.	-	-	-	-	-	Mine formerly owned by Cal-Glo Coal, Inc., Louisville, KY.
U33	Bell No. 7 - Bell County	do.	do.	1.0 - 1983	do.	-	-	-	-	-	-
U34	Unnamed - Bell County	Bell Company Coal Corp., sub. of General Energy Corp., Kansas City, MO.	do.	initial production 0.3 in 1977	do.	-	-	-	-	-	-
U35	Justus - McCreary County	Blue Diamond Coal Co., Knoxville, TN.	do.	0.6 - 1976	do.	S - 2.0% Btu- 13,100 Ash - 7%	total= 105 (2 seams)	-	200	300	Mine formerly operated by Stearns Mining Company, Stearns, KY.

TABLE 44. - Future electric generating plants in Kentucky

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Robert Reid - Sebree, Webster County	Big Rivers Electrical Cooperative Corp., Henderson, KY.	Coal - 0.7	-	200	1978	410	45	-
			Coal - 0.7	-	200	1979	410	45	-
			Gas turbine	-	60	1976	120	15	-
E2	Mill Creek - Kosmosdale, Jefferson County	Louisville Gas and Electric Co., Louisville, KY.	Coal	3	425	1977	860	100	-
			Coal	4	495	1979	1,000	115	-
E3	Kentucky - Louisville, Jefferson County	do.	Gas	3	75	1976	150	15	-
			Gas	-	72	1984	150	15	-
E4	Wise's Landing - Wise's Landing, Trimble County	do.	Coal	1	495	1981	1,000	115	-
			Coal	2	500	1983	1,020	115	-
E5	Ghent - Ghent, Carroll County	Kentucky Utilities Co., Lexington, KY.	Coal	2	511	1977	1,040	120	-
			Coal	-	500	1981	1,020	115	-
E6	East Bend - Rabbit Hash, Boone County	Cincinnati Gas and Electric Co., Cincinnati, OH.	Coal	1	600	1980	1,220	140	-
			Coal	-	600	1982	1,220	140	-
E7	Charleston Bottoms - Maysville, Mason County	East Kentucky Rural Electric Cooperative, Winchester, KY.	Coal	1	333	1976	680	80	This plant may also be referred to as H. L. Spurlock.
			Coal	2	300	1980	610	70	
E8	Laural - Laural County	U. S. Army Corps of Engineers	Hydro-electric	1	61	1976	120	15	-
E9	John Sherman Cooper - Burnside, Pulaski County	East Kentucky Rural Electric Cooperative, Winchester, KY.	Coal	-	300	1976	610	70	-
			Coal	-	500	1980	1,020	115	-

TABLE 45. - Future coal conversion plants in Kentucky

Map Ref. No.	Refinery name and location	Operating company	Type and process	Estimated output (million cf/day or bbls/day)	Initial operating date	Peak employment		Remarks
						Construction	Operation	
C1	Unnamed Unlocated Tentative site in Henderson County	Texas Gas Transmission Co., Joint effort by Commonwealth of Kentucky and ERDA	Coal to SNG	Initially 80 MM cf/day - expandable to 250 MM cf/day	-	-	-	Maximum production will require about 17,000 tons of coal per day.
L2	Unnamed Catlettsburg, Boyd County	ERDA contract with Hydrocarbon Research, Inc.	H-Coal process (coal to oil)	Heavy fuel oil from 600 tons per day of coal	-	-	-	Pilot plant.

TABLE 46. - Future oil and gas pipelines in Kentucky

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Amoco Pipeline Co., Chicago, IL.	Whiting, Lake County, IN.	Decatur, Morgan County, AL.	500	Oil	1978	8	-	-	Petroleum product line.

TABLE 47. - Future railroads (related to energy development) in Kentucky

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Peak employment		Remarks
		Origin	Destination				Construction	Operation	
1	Norfolk and Western Railway Company, Roanoke, VA.	Carolina Power and Light Company's Leslie Mine - Pike County, KY.	nearest main line	7.5	Branch	-	-	-	Service consists of three unit train trips per week, each carrying 5,000 tons of coal.

TABLE 48. - Future terminal facilities in Kentucky

Map Ref. No.	Terminal location	Operating Company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Calhoun, McLean County	Aquarius II	Coal transloader	-	-	-	-	Rail to barge, mile 66.4 on the Green River.
X2	Ghent, Carroll County	Cleancoal Terminals	do.	15 million tons per year	1976	-	-	Rail to barge, initial capacity is 6 million tons per year.
X3	Wilders, Campbell County	Oglebay-Norton Co., Ceredo, W.VA.	do.	8 million tons per year	-	-	-	Rail to barge.

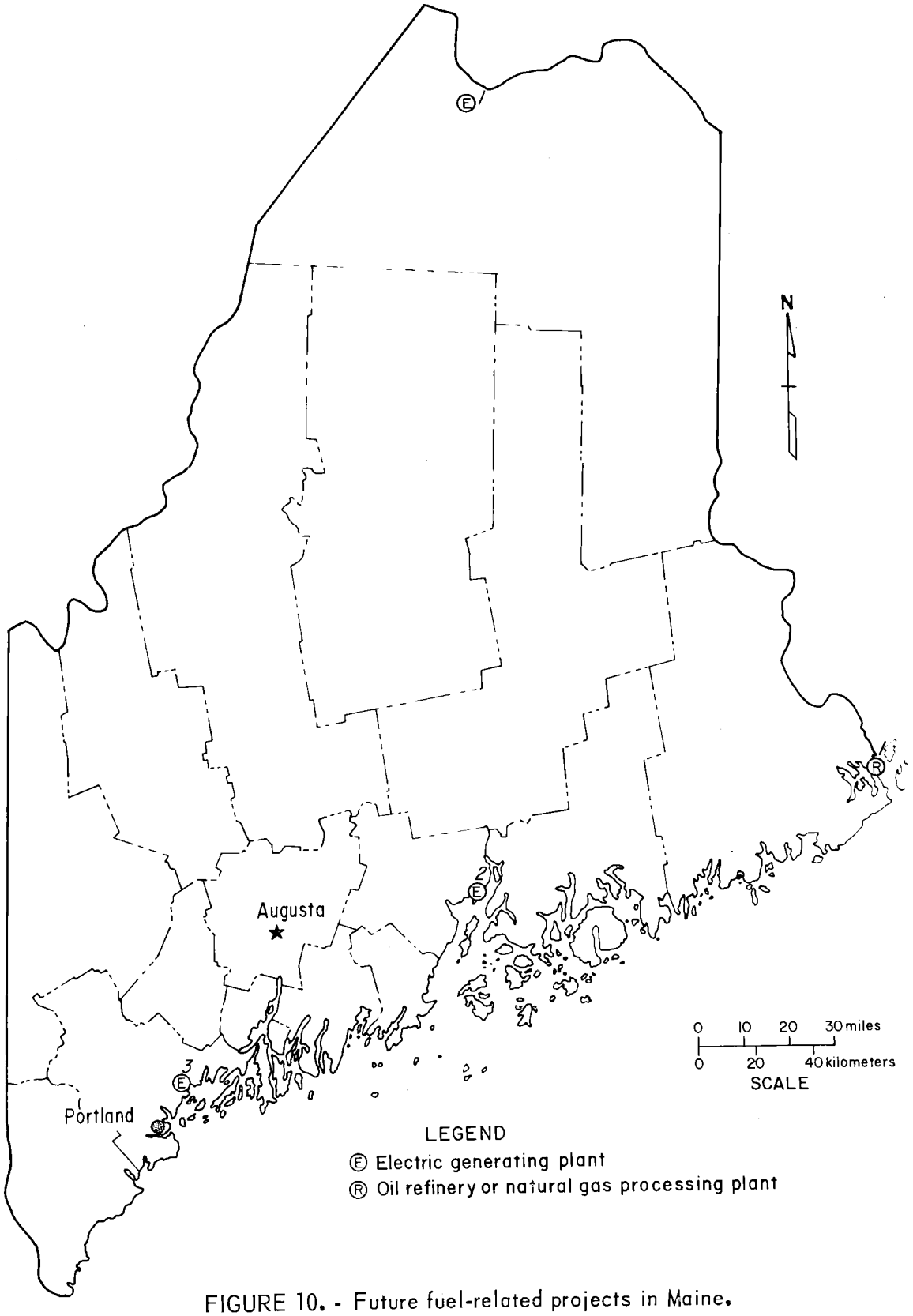

FIGURE 10. - Future fuel-related projects in Maine.

TABLE 49. - Future electric generating plants in Maine

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Dickey-Lincoln Hydroelectric power project - Alagash, Aroostock County	government owned and operated	Hydroelectric	-	830	1980's	1,680	190	Corps of Engineers is conducting preconstruction planning. Power will be sold by Dept. of Interior to private utilities.
E2	Unnamed - Sears Island,	Central Maine Power Company, Augusta, ME.	Nuclear	-	1,150	-	1,170	-	Postponed due to regulatory considerations.
E3	William F. Wyman - Yarmouth, Cumberland County	do.	Oil	4	600	1978	600	-	This will be an addition of one generator to the three already in operation. Total capacity upon completion will be 822 megawatts.

TABLE 50. - Future oil refineries in Maine

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Eastport, Washington County	Pittston Company, New York City, N.Y.	425	-	-	-	Awaiting EPA approval.

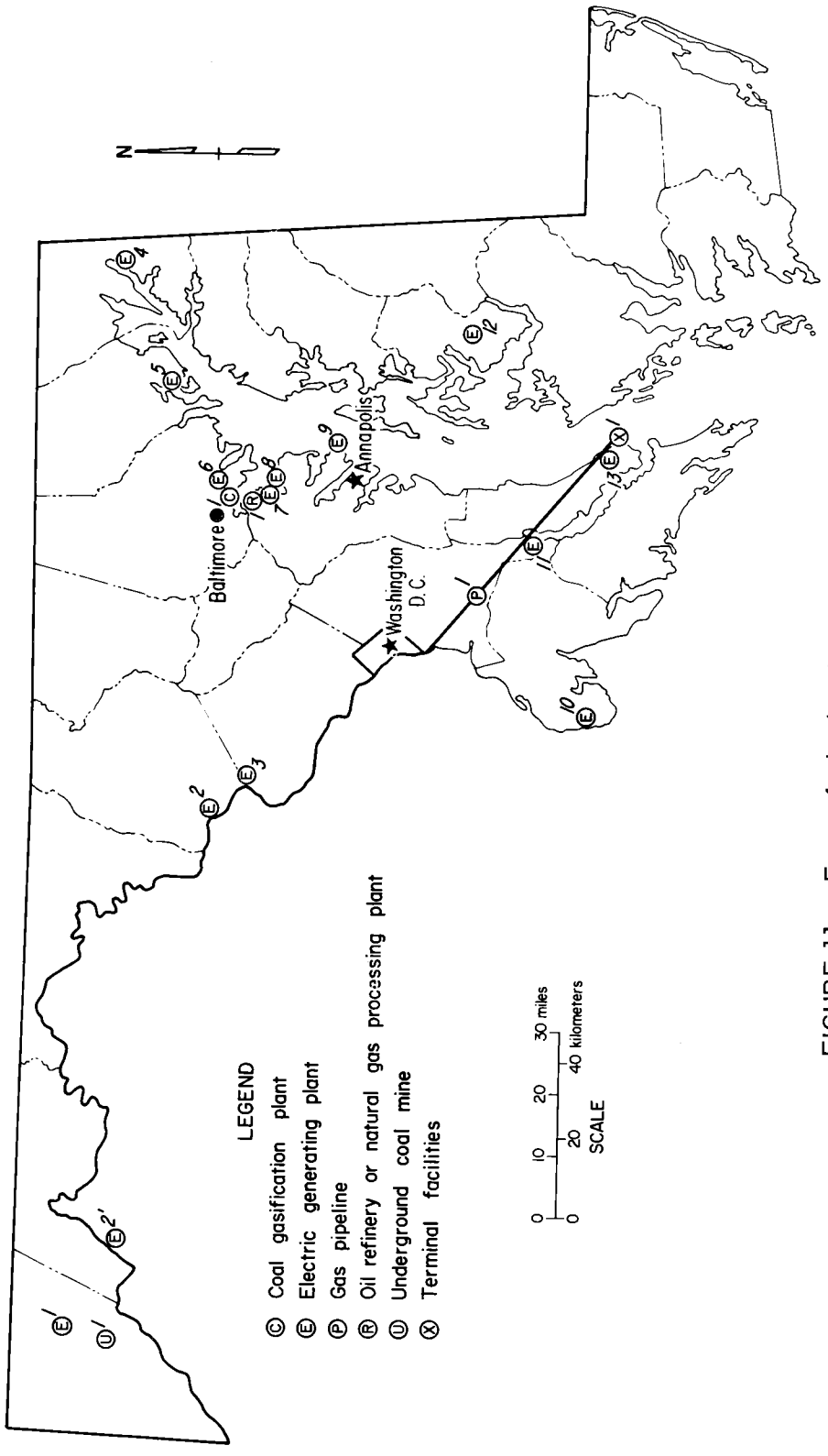

FIGURE 11. - Future fuel-related projects in Maryland.

TABLE 51. - Future coal mines in Maryland

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Mettike Mine - Sincell Field, Garrett County	Mapco Coals, Inc., Tulsa, OK.	Under-ground	1.8 - 1980	Steam & metal-lurgical	Vol. - 20.5% Fixed- 65.3% S - 1.1% Btu- 13,400 Ash - 8.2%	(2 seams) U.Freeport = 92 Bakerstown = 56	-	-	-	-

TABLE 52. - Future electric generating plants in Maryland

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Pepco "J" - Garrett County	Potomac Electric Power Company, Washington, D.C.	Hydro pumped storage	-	1,000	-	-	-	Will not be completed within next 10 years.
E2	Point of Rocks - Frederick County	The Potomac Edison Co., Hagerstown, MD.	Uranium	-	2,500	-	2,550	200	Do.
E2'	Black Oak - Mineral County, W.VA.	do.	do.	-	2,500	-	2,550	200	Alternate site for the above plant.
E3	Dickerson - Montgomery County	Potomac Electric Power Company, Washington, D.C.	Coal - 3.0	4	850	1982	1,730	200	Expansion at an existing plant - possibly oil-fueled.
E4	Chesapeake City - Cecil County	Susquehanna Electric Co., Conowingo, MD.	Uranium	-	3,000	-	3,060	240	Will not be completed within next 10 years.
E5	Perryman - Harford County	Baltimore Gas and Electric Company,	Uranium OR Fossil Fuel	- -	1,800 550	- -	1,840 1,120	140 130	Expansion near existing plant.
E6	Riverside - Baltimore City	do.	-	-	250	-	-	-	Do.
E7	Brandon Shore - Anne Arundel County	do.	Oil Oil	1 2	1,210 1,210	- -	1,000 1,000	200 200	Construction of Unit 1 is 18% completed.
E8	Herbert A. Wagner - Baltimore City	do.	Oil	-	400	1977	810	90	Expansion of existing facility.
E9	Sandy Point - Anne Arundel County	Potomac Electric Power Co., Washington, D.C.	Oil	-	435	1976	880	100	Do.
E10	Douglas Point - Charles County	do.	Uranium do.	1 2	1,178 1,178	1985 1987	1,200 1,200	90 90	- -
E11	Chalk Point - Prince Georges County	do.	Coal - 2.3	4	630	1980	1,280	140	Possibly oil-fueled.
E12	Easton No. 21 & 22 - Easton, Talbot County	Easton Municipal Utility, Easton, MD.	Diesel	-	12	1976	25	5	Data includes both No. 21 and 22.
E13	Calvert Cliffs - Lusby, Calvert County	Baltimore Gas and Electric Company, Baltimore, MD.	Uranium	2	800	1977	2,450	230	Construction was 96% complete as of May 1976.
-	Unassigned plant -	The Potomac Edison Co., Hagerstown, MD.	-	-	650	1979	650	150	Expansion - possibly fossil fuel.

TABLE 53. - Future coal conversion plants in Maryland

Map Ref. No.	Refinery name and location	Operating company	Type and process	Estimated output (million cf/day or bbls/day)	Initial operating date	Peak employment		Remarks
						Construction	Operation	
C1	Riverside SNG Plant - Sollers Point area, Baltimore City	Baltimore Gas and Electric Company, Baltimore, MD.	Gasification	60 MM cf/day	end of 1976	300	30	Uses BASF/Lurgi Gasynthan process. Plant nearing completion.

TABLE 54. - Future oil and gas pipelines in Maryland

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Consolidated Natural Gas Company, Pittsburgh, PA.	Cove Point, Calvert County, MD.	Loudoun County VA.	83	Gas	-	36	-	-	Serves as connection for Cove Point LNG terminal.

TABLE 55. - Future terminal facilities in Maryland

Map Ref. No.	Terminal location	Operating Company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Cove Point, Calvert County	El Paso Natural Gas Company, El Paso, TX.	Offshore LNG terminal	1 billion cubic feet per day	1977	-	-	Terminal includes four 375,000 barrel capacity storage tanks and a 1.2 billion cubic feet per day regasification facility. Terminal can accomodate two 100,000 ton tankers simultaneously.

TABLE 56. - Future oil refineries in Maryland

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Crown Central Refinery - Curtis Bay Area, Baltimore City	Crown Central Petroleum Corporation, Baltimore, MD.	200	1978-80	2,000	350-400	Refinery is estimated to cost between $400 to $500 million to build; completion date is contingent upon Natural Energy Policy reformulation.

TABLE 57. - Future gas storage projects in Maryland

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construction	Operation	
-	Cove Point - Calver County	El Paso Natural Gas Company, El Paso, TX.	Constructed	1,500,000 barrels	-	1977	-	-	LNG storage - part of Cove Point terminal.

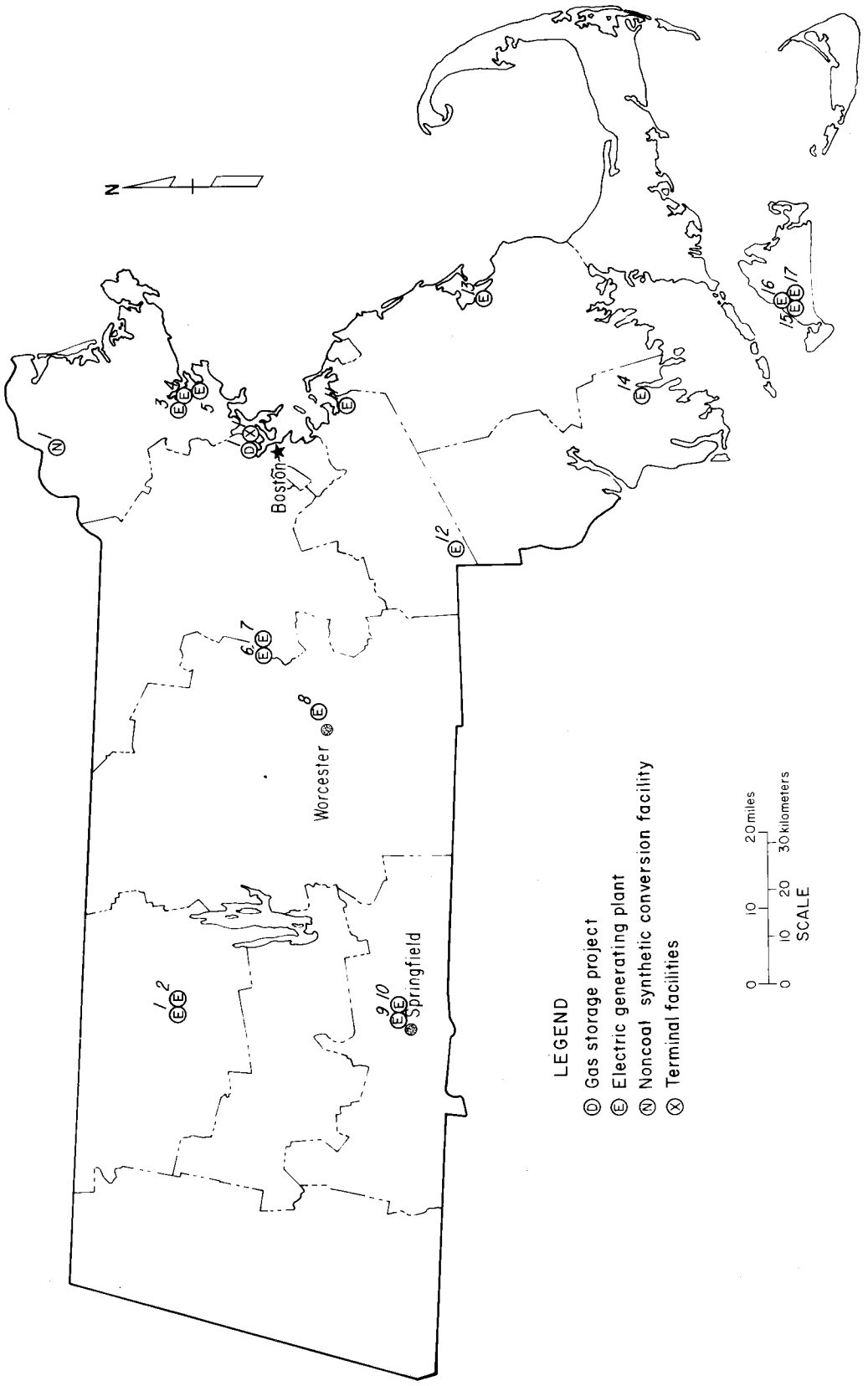

FIGURE 12. - Future fuel-related projects in Massachusetts.

TABLE 58. - Future electric generating plants in Massachusetts

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Montague - Montague, Franklin County	Northeast Utilities, Hartford, CT.	Nuclear	1	1,150	-	1,170	90	-
E2	do.	do.	do.	2	1,150	-	1,170	90	-
E3	Danvers/Peabody - Peabody, Essex County	Massachusetts Municipal Light Companies	Solid Waste	-	75	1980	-	-	-
E4	Waters River - Peabody, Essex County	Peabody Municipal Light Co., Peabody, MA.	Oil	-	17	1981	-	-	-
E5	Salem Harbor - Salem, Essex County	New England Electric System, Boston, MA.	Oil	5	880	1980	1,790	200	-
E6	Cherry Street - Hudson, Middlesex County	Hudson Light and Power Department, Hudson, MA.	Oil	-	6	1980	-	-	-
E7	do.	do.	Oil	-	12	1984	-	-	-
E8	Peaking Station - Shrewsbury, Worcester County	Shrewsbury Electric Light Department, Shrewsbury, MA.	Oil	-	2.75	1978	-	-	-
E8	Stonybrook - Ludlow, Hampden County	Massachusetts Municipal Light Companies	Oil	1	230	1981	470	55	-
E10	do.	do.	Oil	2	84	1982	-	-	-
E11	Potter - Braintree, Norfolk County	Braintree Electric Light Co., E. Braintree, MA.	Gas OR Oil	2	95	1976	-	-	Combined cycle.
E12	Unnamed - Plainville, Norfolk County	Massachusetts Municipal Light Companies	Solid Waste	-	75	1981	-	-	-
E13	Pilgrim Station - Plymouth, Plymouth County	Boston Edison Company, Boston, MA.	Nuclear	2	1,180	1982	1,200	95	-
E14	Cannon Street - New Bedford, Bristol County	New England Gas and Electric Association, Cambridge, MA.	Oil	-	69	1981	-	-	-
E15	West Tisbury - West Tisbury, Martha's Vineyard	do.	Oil	3	2.75	1979	-	-	Proposed.
E16	do.	do.	Oil	4	2.75	1981	-	-	Do.
E17	do.	do.	Oil	5	2.75	1983	-	-	Do.

TABLE 59. - Future noncoal synthetic conversion plants in Massachusetts

Map Ref. No.	Plant name and location	Operating company	Type	Estimated capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
N1	Lowell Synthetic Gas Plant - Haverhill, Essex County	Lowell Gas Company	Gasification	31.5 MM cf/day	-	-	-	Proposed - plant will convert 1,700 tons of solid waste per day into gas.

TABLE 60. - Future terminal facilities in Massachusetts

Map Ref. No.	Terminal location	Operating Company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Chelsea, Suffolk County	Boston and Maine Corp., Boston, MA.	Coal transloader - rail to barge	-	-	-	-	Proposed; study conducted by C. E. Maguire.

TABLE 61. - Future gas storage projects in Massachusetts

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construc-tion	Opera-tion	
D1	Everett LNG Storage Facility - Everett Middlesex County	Cabot Corporation, Boston, MA.	-	974,000 barrels (additional)	75,000 cubic meters per month	1977	-	-	Expansion of facility to be run be Cabot's Distrigas Division.

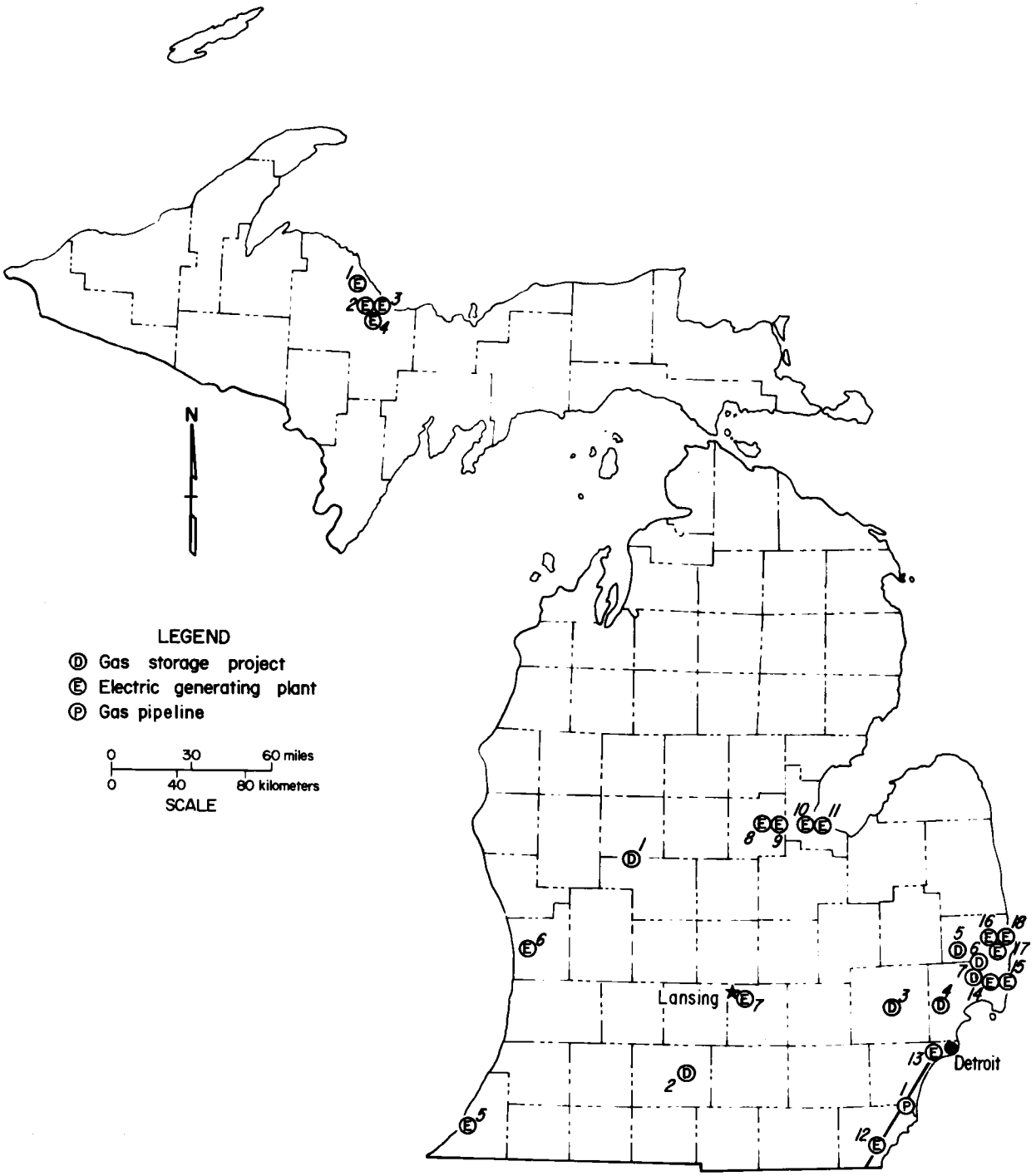

FIGURE 13. - Future fuel-related projects in Michigan.

TABLE 62. - Future electric generating plants in Michigan

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Shiras - Marquette, Marquette County	Marquette Board of Light and Power, Marquette, MI.	Coal - 0.07	3	44	1980	100	-	-
E2	Presque Isle - Marquette, Marquette County	Upper Pennisula Generating Company, Houghton, MI.	Coal - 0.3	7	80	1978	135	-	-
E3	do.	do.	Coal - 0.3	8	80	1978	135	-	-
E4	do.	do.	Coal - 0.3	9	80	1978	135	-	-
E5	Donald C. Cook Plant - Bridgman, Berrien County	Indiana and Michigan Electric Company, Fort Wayne, IN.	Uranium	2	1,060	1978	1,080	85	-
E6	James H. Campbell - Port Sheldon, Ottawa County	Consumers Power Company Jackson, MI.	Coal - 2.8	3	800	1980	1,400	180	Engineering stage.
E7	Erickson - Lansing, Ingham County	Lansing Board of Water & Light, Lansing, MI.	Coal - 0.4	2	160	1980	-	-	-
E8	Midland Nuclear Power Plant - Midland, Midland County	Consumers Power Company Jackson, MI.	Uranium	1	458	1982	470	40	-
E9	do.	do.	do.	2	808	1981	825	65	-
E10	Dan E. Karn - Essexville, Bay County	do.	Oil	3	240	1976	2,000	75	-
E11	do.	do.	Oil	4	663	1977	565	150	-
E12	Enrico Fermi Atomic Power Plant - Lagoon Beach, Monroe County	Detroit Edison Company Detroit, MI.	Uranium	2	1,163	1980	1,120	90	-
E13	Mistersky - Detroit, Wayne County	Detroit Public Lighting Commission, Detroit, MI.	Oil	7	60	1978	100	-	-
E14	Belle River - St. Clair, St. Clair County	Detroit Edison Comy Detroit, MI.	Coal - 2.5	1	675	1981	1,420	160	-
E15	do.	do.	Coal - 2.5	2	675	1982	1,420	160	-
E16	Greenwood - Port Huron, St. Clair County	do.	Oil	1	800	1977	1,620	180	-
E17	do.	do.	Uranium	2	1,200	1984	1,225	100	-
E18	do.	do.	do.	3	1,200	1986	1,225	100	-

TABLE 63. - Future oil and gas pipelines in Michigan

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Anglo Pipeline Co., Calgary, Alberta, CANADA	Kerrobert, Saskatchewan, CANADA	Green Springs, Sandusky County, OH.	1,550	Gas	-	16	-	-	Gas liquids line.

TABLE 64. - Future gas storage projects in Michigan

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construc-tion	Opera-tion	
D1	Taggart/Isabella - Montcalm and Mecosta Counties	Michigan Consol-idated Gas Company, Detroit, MI.	-	54,000 MMCF	-	1976	-	-	Expansion - formerly Six Lakes storage field.
D2	Lee (Cortright) - Calhoun County	Michigan Gas Utilities, Monroe, MI.	-	60,000 MMCF	-	1976	-	-	-
D3	Leonard - Oakland County	Michigan-Wisconsin Pipeline Company, Detroit, MI.	-	12,800 MMCF	-	-	-	-	Early planning.
D4	Muttonville Storage - Macomb County	do.	-	11,000 MMCF	-	1975	-	-	Initial development.
D5	Marysville/Morton - St. Clair County	Southeastern Michigan Gas Co., Port Huron, MI.	-	2,000 MMCF	-	1976	-	-	-
D6	Hessen - St. Clair County	Consumers Power, Jackson, MI.	-	14,000 MMCF	-	1976	-	-	-
D7	Marsac Creek - St. Clair County	do.	-	3,300 MMCF	-	1977	-	-	-

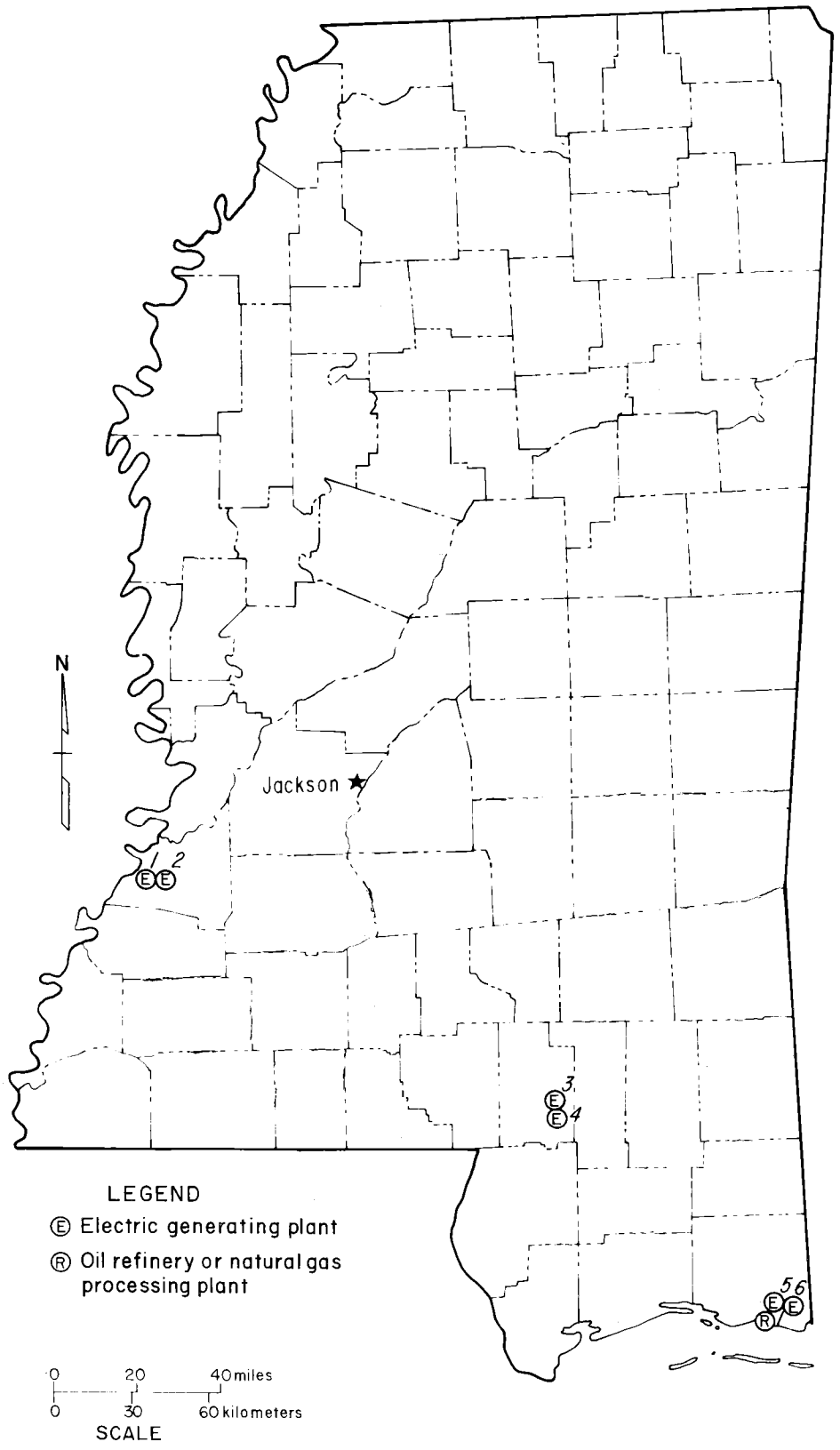

FIGURE 14. - Future fuel-related projects in Mississippi.

TABLE 65. - Future electric generating plants in Mississippi

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Grand Gulf Nuclear Station - Port Gibson, Claiborne County	Mississippi Power and Light Company, Jackson, MS.	Nuclear	1	1,250	1979	1,275	100	-
E2	do.	do.	Nuclear	2	1,250	1984	1,275	100	-
E3	Purvis - Purvis, Lamar County	Southern Mississippi Electric Power Assoc., Hattiesburg, MS.	Coal - 394	1	200	1977	-	-	-
E4	do.	do.	Coal - 394	2	200	1979	-	-	-
E5	Jackson County - Moss Point, Jackson County	Mississippi Power Co., Gulfport, MS.	Coal - 985	1	500	1977	1,015	115	-
E6	do.	do.	Coal - 985	2	500	1980	1,015	115	-

TABLE 66. - Future oil refineries in Mississippi

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Pascagoula, Jackson County	Fuel Desulfurization, Inc., Pascagoula, MS.	200	-	-	-	New refinery (planned).

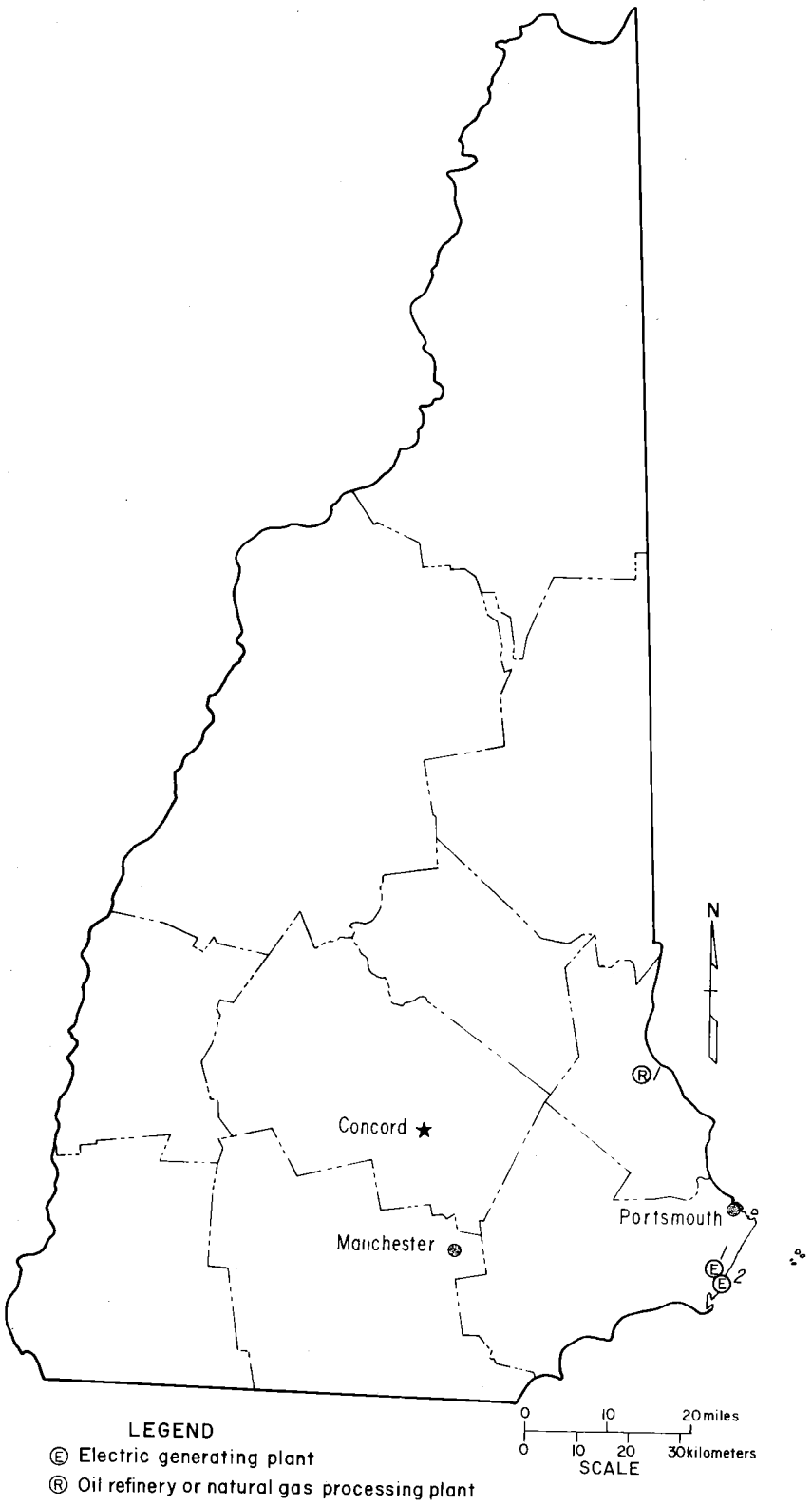

FIGURE 15. - Future fuel-related projects in New Hampshire.

TABLE 67. - Future electric generating plants in New Hampshire

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Seabrook Nuclear Station - Seabrook, Rockingham County	Public Service Company of New Hampshire, Portsmouth, N.H.	Nuclear	1	1,150	1981	1,220	100	-
E2	do.	do.	do.	2	1,150	1983	1,220	100	-

TABLE 68. - Future oil refineries in New Hampshire

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Rochester, Strafford County	Granite State Refineries, Incorporated, Rochester, N.H.	400	-	-	-	Proposed new refinery.

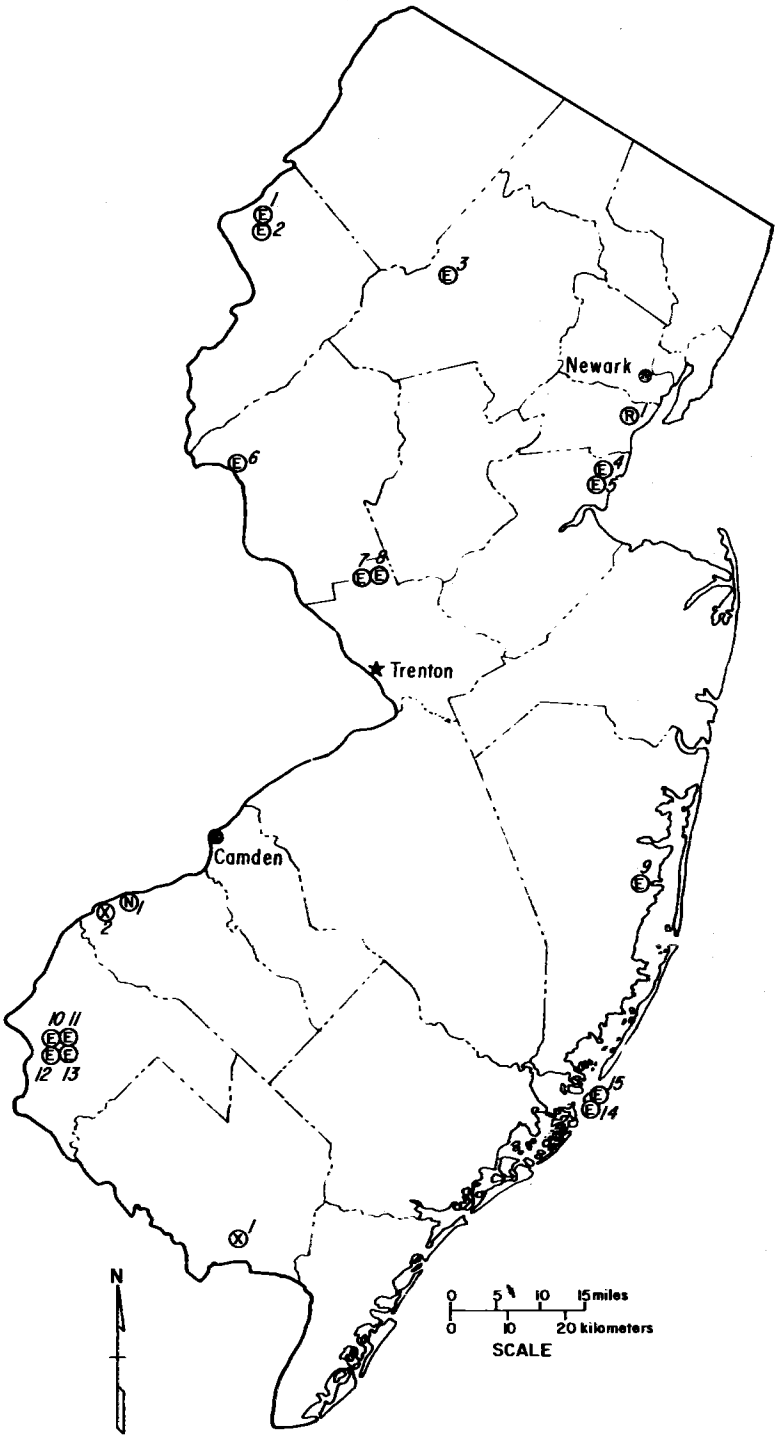

FIGURE 16. - Future fuel-related projects in New Jersey.

TABLE 69. - Future electric generating plants in New Jersey

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Kittanning Mountain - Blairstown, Warren County	Public Service Electric and Gas Company, Newark, N.J.	Hydroelectric	2	500	1977	1,010	115	Pumped storage.
E2	do.	do.	do.	3	800	1979	1,620	180	Do.
E3	Mt. Hope Lake - Middletown, Morris County	Jersey Central Power and Light Company, Morristown, N.J.	do.	-	1,000	1992	2,030	230	Do.
E4	Sewarren - Sewarren, Middlesex County	Public Service Electric and Gas Company Newark, N.J.	Oil	7	400	1977	810	90	-
E5	do.	do.	Oil	8	400	1978	810	90	-
E6	Gilbert Station - Milford, Hunterdon County	Jersey Central Power and Light Company, Morristown, N.J.	Gas OR Oil	-	319	1976	650	70	Combined cycle.
E7	Thuerk - Hopewell, Mercer County	General Public Utility, Reading, PA.	Gas OR Oil	1	316	1979	650	70	Do.
E8	do.	do.	do.	2	316	1979	650	70	Do.
E9	Forked River Generating Station - Forked River, Ocean County	Jersey Central Power and Light Company, Morristown, N.J.	Nuclear	1	1,070	1982	1,090	85	-
E10	Salem Nuclear Generating Station - Salem, Salem County	Public Service Electric and Gas Company, Newark, N.J.	do.	1	1,090	1976	1,110	85	-
E11	do.	do.	do.	2	1,115	1979	1,140	90	-
E12	Hope Creek Generating Station - Salem, Salem County	do.	do.	1	1,067	1982	1,090	85	-
E13	do.	do.	do.	2	1,067	1984	1,090	85	-
E14	Atlantic Generating Station - Little Egg Inlet, Ocean County	do.	do.	1	1,150	1985	1,170	90	-
E15	do.	do.	do.	2	1,150	1987	1,170	90	-

TABLE 69. - Future electric generating plants in New Jersey - continued

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
-	Unnamed and unlocated	Public Service Electric and Gas Company, Newark, N.J.	Nuclear	-	1,150	1990	1,170	90	Offshore power system.
-	do.	do.	do.	-	1,150	1992	1,170	90	Do.
-	do.	Jersey Central Power and Light Company, Morristown, N.J.	Solid Waste	-	110	-	-	-	-

TABLE 70. - Future noncoal synthetic conversion plants in New Jersey

Map Ref. No.	Plant name and location	Operating company	Type	Estimated capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
N1	Unnamed - Gibbstown, Gloucester County	South Jersey Industries, Inc.	Gasification	125 million cubic feet per day	1977	-	-	-

TABLE 71. - Future oil refineries in New Jersey

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Linden, Union County	Exxon Corporation, Houston, TX.	20	1976	-	-	Expansion.

TABLE 72. - Future terminal facilities in New Jersey

Map Ref. No.	Terminal location	Operating Company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Delaware Bay, Cumberland County	Intercontinental Pipeline Company, Vineland, NJ.	Deep water port/ tank farm	862,000 barrels	-	-	-	Deep water port to be connected with tank farm via two 48" diameter pipelines.
X2	Gloucester County	Transco Energy Company, Houston, TX.	LNG	750 MMcf per day	1976	-	-	Proposed receiving terminal.

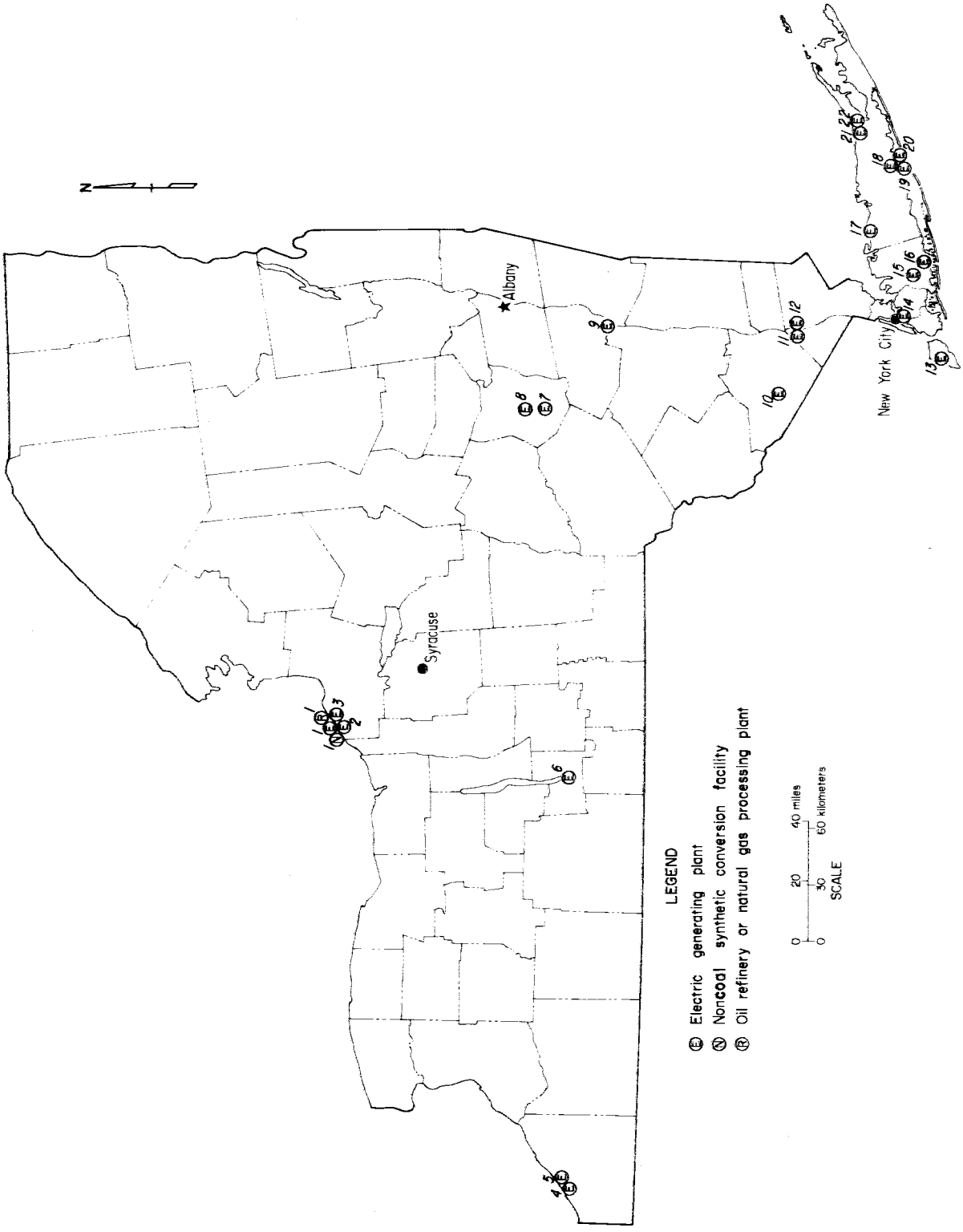

FIGURE 17. - Future fuel-related projects in New York.

TABLE 73. - Future electric generating plants in New York

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Oswego - Oswego, Oswego County	Niagara Mohawk Power Corp Syracuse, N.Y.	Oil	6	850	1978	1,725	195	-
E2	Nine Mile Point Nuclear Station - Scriba, Oswego County	do.	Nuclear	2	1,080	1982	1,100	90	-
E3	Sterling Nuclear Station - Oswego, Oswego County	Rochester Gas and Electric Corporation, Rochester, N.Y.	Nuclear	1	1,150	1984	1,170	90	-
E4	Lake Erie - Chautauqua County	Niagara Mohawk Power Corp Syracuse, N.Y.	Coal - 2.0	1	850	1985	1,725	195	-
E5	do.	do.	Coal - 2.0	2	850	1987	1,725	195	-
E6	Cayuga Lake - Ithaca, Tompkins County	New York State Electric and Gas Corporation, Binghampton, N.Y.	Coal	1	850	1980	1,725	195	-
E7	Pumped Storage No. 2 - Greene County	Power Authority for the State of New York, New York City, N.Y.	Hydroelectric	2	1,000	1977	2,030	230	Pumped storage.
E8	Breakabeen - Breakabeen, Schoharie County	do.	do.	-	1,000	1982	2,030	230	Do.
E9	Greene County Nuclear Power Plant - Cementon, Greene Co.	do.	Nuclear		1,200	1984	2,420	275	-
E10	Cornwall Units - Cornwall, Orange County	Consolidated Edison Co. of New York, Inc., New York City, N.Y.	Hydroelectric	1-8	2,000	1987-88	2,030	230	Eight units (units 1 through 8) at 250 mw per unit; to be used for peaking service.
E11	Indian Point - Buchanan, Westchester County	do.	Nuclear	2	160	1980	-	-	Uprating.
E12	do.	do.	do.	3	160	1980	-	-	Do.
E13	MTA Fossil - Arthur Kill, Richmond County	Power Authority of the State of New York, New York City, N.Y.	Coal - 1.7		700	1980	1,420	160	-
E14	Astoria - Astoria, Queens County	do.	Oil	6	800	1976	1,620	18	-

TABLE 73. - Future electric generating plants in New York - continued

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E15	Mitchell Gardens - Hempsted, Nassau Co.	Long Island Lighting Co., Mineola, N.Y.	Solid Waste	1&2	32	1977	-	-	Includes 2 units.
E16	Freeport - Freeport, Nassau County	City of Freeport, Freeport, N.Y.	Gas	3&4	20	1978	-	-	Includes 2 units.
E17	Northport - Northport, Suffolk County	Long Island Lighting Co., Mineola, N.Y.	Oil	4	380	1977	770	90	-
E18	Shoreham Nuclear Power Station - Brookhaven, Suffolk County	do.	Nuclear	-	819	1978	835	65	-
E19	Shoreham - Shoreham, Suffolk County	-	do.	-	1,300	1987	1,325	100	Ownership undetermined at this time.
E20	do.	-	do.	-	1,300	1989	1,325	100	Do.
E21	Jamesport - Jamesport, Suffolk County	Long Island Lighting Co., Mineola, N.Y.	do.	1	1,150	1982	1,170	90	-
E22	do.	do.	do.	2	1,150	1984	1,170	90	-
-	Unnamed and unlocated	New York State Electric and Gas Corporation, Binghampton, N.Y.	Nuclear	-	1,200	1986	1,220	100	-
-	do.	do.	do.	-	1,200	1988	1,220	100	-
-	Mid-Hudson - Unlocated	-	do.	E1	1,300	1987	1,325	100	Ownership undetermined at this time.
-	do.	-	do.	E2	1,300	1989	1,325	100	Do.
-	do.	-	do.	W1	1,300	1990	1,325	100	Do.
-	St. Lawrence - Unlocated	-	do.	1	1,300	1985	1,325	100	Do.
-	do.	-	do.	2	1,300	1990	1,325	100	Do.

TABLE 74. - Future noncoal synthetic conversion plants in New York

Map Ref. No.	Plant name and location	Operating company	Type	Estimated capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
N1	Unnamed - Oswego, Oswego County	NEPCO Energy Corporation, New York City, N.Y.	Gasification	125 million cubic feet per day SNG	1979	-	-	-

TABLE 75. - Future oil refineries in New York

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Oswego, Oswego County	NEPCO Energy Corporation, New York City, N.Y.	200	1979	-	-	New refinery.

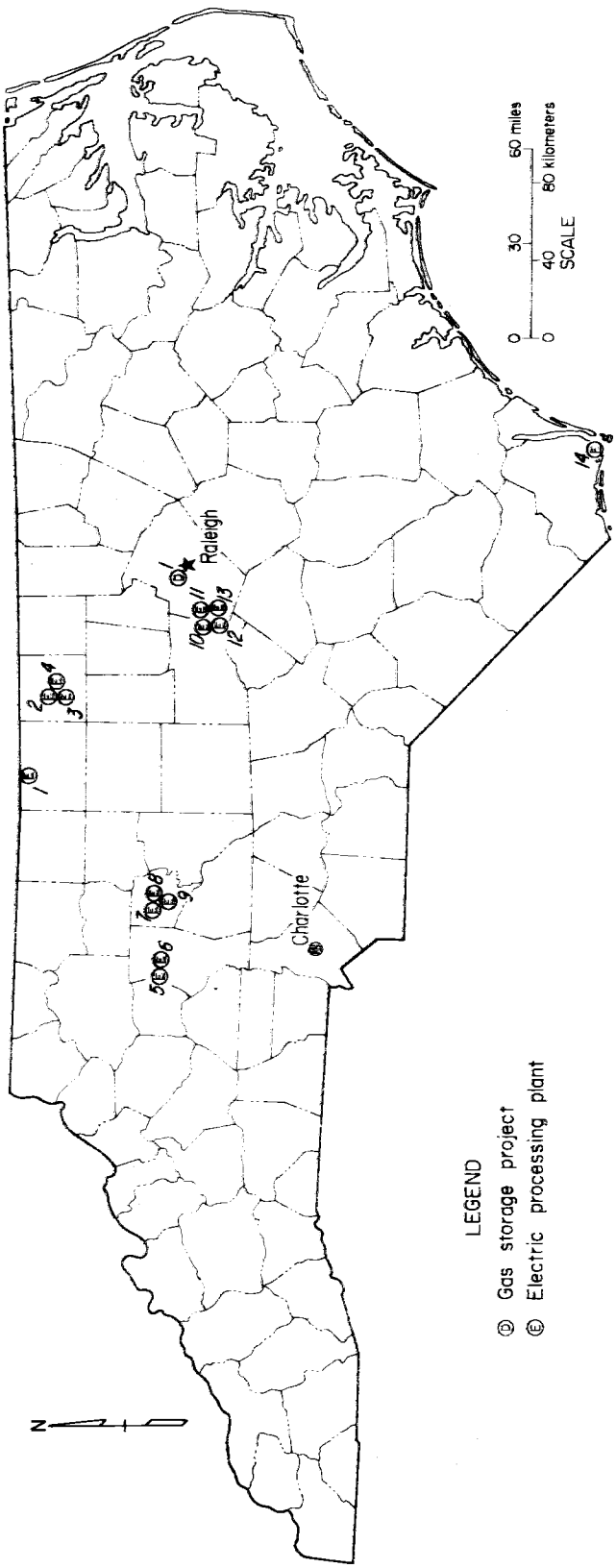

FIGURE 18. - Future fuel-related projects in North Carolina.

TABLE 76. - Future electric generating plants in North Carolina

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Dam River - Eden, Rockingham County	Duke Power Company, Charlotte, N.C.	-	7-10	14	1976	-	-	Units 7 through 10; internal combustion.
E2	Mayo - Person County	Carolina Power & Light Company, Raleigh, N.C.	Coal	1	720	1983	-	-	-
E3	do.	do.	do.	2	720	1985	-	-	-
E4	Roxboro - Roxboro, Person County	do.	do.	4	720	1981	-	-	-
E5	William B. McGuire Nuclear Station - Cowans Ford Dam, Iredell County	Duke Power Company, Charlotte, N.C.	Nuclear	1	1,180	1978	-	-	-
E6	do.	do.	do.	2	1,180	1979	-	-	-
E7	Perkins Nuclear Station - Davie County	do.	do.	1	1,280	1983	-	-	-
E8	do.	do.	do.	2	1,280	1985	-	-	-
E9	do.	do.	do.	3	1,280	1987	-	-	-
E10	Shearon Harris Plant - Bonsal, Wake County	Carolina Power and Light Company, Raleigh, N.C.	do.	1	900	1984	-	-	-
E11	do.	do.	do.	2	900	1986	-	-	-
E12	do.	do.	do.	3	900	1988	-	-	-
E13	do.	do.	do.	4	900	1990	-	-	-
E14	Brunswick Steam Electric Plant - Southport, Brunswick County	do.	do.	1	821	1977	-	-	-

TABLE 77. - Future gas storage projects in North Carolina

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construc-tion	Opera-tion	
D1	Cary Energy Center - Wake County	Public Service Company of North Carolina, Raleigh, N.C.	Con-structed	174,000 barrels of LNG	injection - 3,200 thousand cubic feet/day withdrawal - 110,000 thousand cubic feet/day	1976	-	-	LNG will be stored in a tank which measures 154 feet in diameter by 140 feet high.

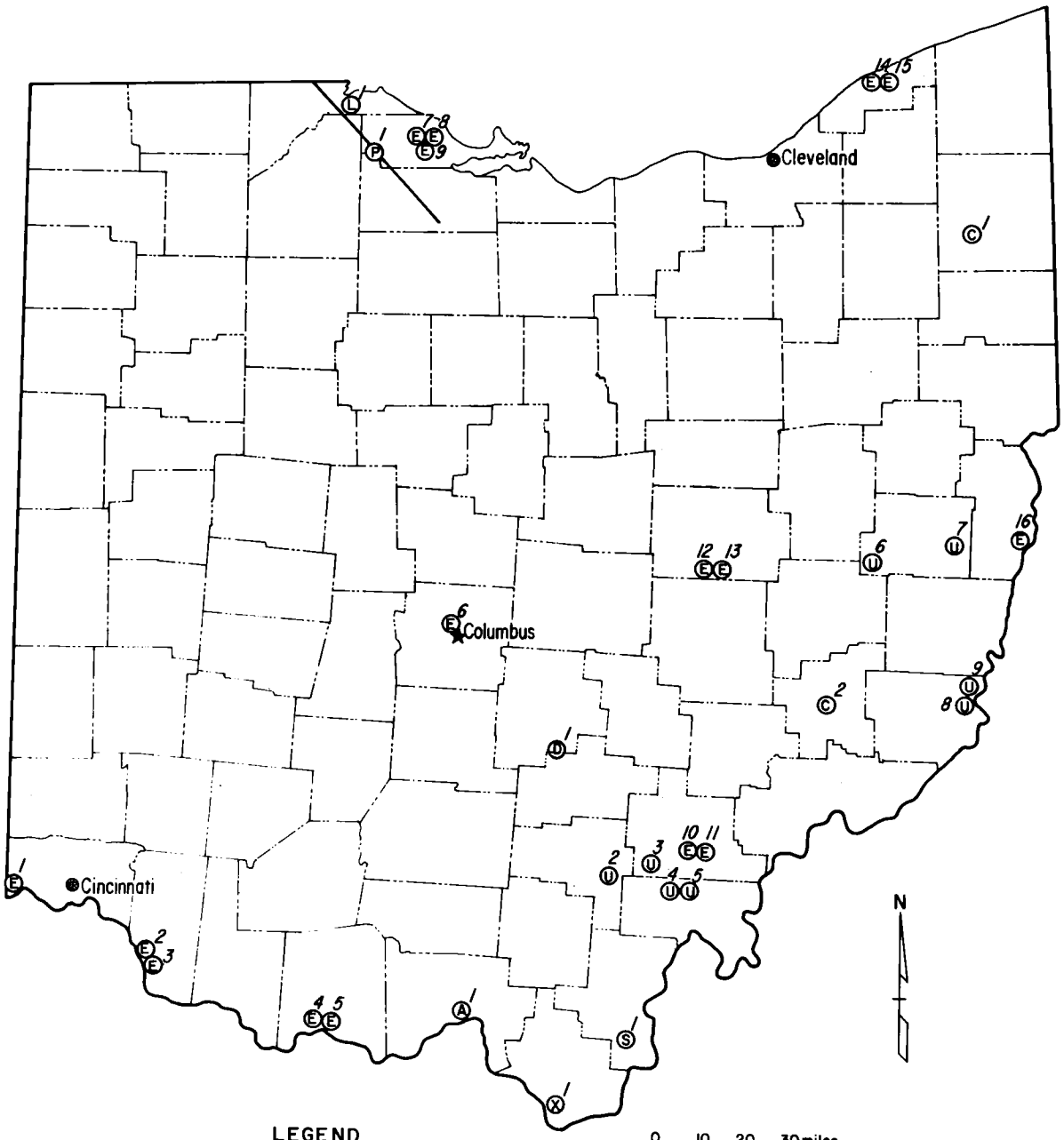

FIGURE 19. - Future fuel-related projects in Ohio.

TABLE 78. - Future coal mines in Ohio

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
S1	Crown City Mine - 4 miles northwest of Crown City, Gallia County	Gilbert Fuel Co., Bloomingdale, OH.	Strip	0.5 by April 1976	Steam	Estimate: 8% moisture, 12% ash, 3.5% S, and 11,300 Btu	31	75	35	35	Expected life - 15 years.
U2	Racoon No. 3 - Vinton County	Southern Ohio Coal Co., New York City, N.Y.	Under-ground	1.6 by 1978	do.	-	54	70	320	-	-
U3	Albany, Athens County	American Electric Power, New York City, N.Y.	do.	1.5 by 1979	do.	-	-	-	-	350	-
U4	Meigs No. 1 - Meigs County	Southern Ohio Coal Co., New York City, N.Y.	do.	2.2 by 1978	do.	-	54	300	440	-	-
U5	Meigs No. 2 - Meigs County	do.	do.	2.5 by 1978	do.	-	54	250	450	-	-
U6	Vail No. 20 - southwest Harrison County	Island Creek Coal Co., Lexington, KY.	do.	0.4 by 1976	do.	-	-	-	-	160	Reopening of mine closed in 1972.
U7	Cadiz Portal - Rt. 5 east of Cadiz, Harrison County	Youghiogheny and Ohio Coal Co., Cleveland, OH.	do.	1.0 by Fall 1977	do.	-	66	-	45	400	-
U8	Powhattan No. 7 - northeast Monroe County	Quarto Mining Co. (North American Coal), Cleveland, OH.	do.	3.2 by 1979	do.	-	48	-	70	600	Expected life - 30 years.
U9	Powhattan No. 4 - northeast Monroe County	do.	do.	3.2 by 1978	do.	-	48	-	530	-	Do.
-	Unnamed - near Caldwell, Noble County	Consolidation Coal Company, Pittsburgh, PA.	Strip	2.5 by 1980	Gasifica-tion	-	-	-	-	-	Production for gasification plant operated by Continental Oil Company - Map reference No. C2.

TABLE 79. - Future electric generating plants in Ohio

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operation date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Miami Fort - North Bend, Hamilton County	Cincinnati Gas and Electric Company, Cincinnati, OH.	Coal - 1.2	8	500	1978	1,020	120	-
E2	Wm. H. Zimmer Nuclear Station - Moscow, Clermont County	do.	Uranium	1	810	1979	830	70	-
E3	do.	do.	do.	2	1,170	1984	1,190	90	-
E4	Wrightsville - Manchester, Adams County	Dayton Power and Light, Dayton, OH.	Coal - 1.4	1	600	1981	1,220	140	-
E5	do.	do.	Coal - 1.4	2	600	1982	1,220	140	-
E6	Unnamed - Columbus, Franklin County	City of Columbus, Columbus, OH.	Coal Trash	-	90	1980	180	20	-
E7	Davis-Besse Nuclear Power Station - Oak Harbor, Ottawa County	Toledo Edison-Cleveland Electric Illuminating Company, Toledo, OH.	Uranium	1	906	1976	920	70	-
E8	do.	do.	do.	2	906	1983	920	70	-
E9	do.	do.	do.	3	906	1985	920	70	-
E10	Posten - Athens, Athens County	Columbus and Southern Ohio Electric Company, Columbus, OH.	Coal - 1.0	5	400	1981	810	90	-
E11	do.	do.	Coal - 1.0	6	400	1983	810	90	-
E12	Conesville - Conesville, Coshocton County	do.	Coal - 1.1	5	450	1976	910	100	-
E13	do.	do.	Coal - 1.1	6	450	1978	910	100	-
E14	Perry Nuclear Power Plant - Perry, Lake County	Cleveland Electric Illuminating Company, Cleveland, OH.	Uranium	1	1,205	1980	1,230	100	-
E15	do.	do.	do.	2	1,205	1982	1,230	100	-
E16	Cardinal - Brilliant, Jefferson County	Ohio Power Company, Canton, OH.	Coal - 1.5	3	615	1976	1,250	140	-

TABLE 80. - Future coal conversion plants in Ohio

Map Ref. No.	Plant name and location	Operating company	Type and process	Estimated output (million cf/day or bbls/day)	Initial operating date	Peak employment		Remarks
						Construction	Operation	
L1	Clean Fuels From Coal, Toledo, Lucas County	Standard Oil of Ohio - Old Ben Coal Company, Chicago, IL.	Hydrogenation-non-catalytic	2,600 barrels	-	-	-	Proposed prototype plant - clean solid or liquid fuel.
C1	Unnamed - Warren, Trumbull County	Consolidated Natural Gas Company, Pittsburgh, PA.	Gasification	53 MMCF	-	-	-	Application for supporting grant from ERDA.
C2	Unnamed - Caldwell, Noble County	Continental Oil Company	Gasification Lurgi process	58.6 MMCF	1980	1,400	600	Plant funded 50% by ERDA; coal supplied by adjacent surface mine operated by Consolidation Coal Company; 2.5 million tons annually.

TABLE 81. - Future oil and gas pipelines in Ohio

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Anglo Pipeline Co., Calgary, Alberta, CANADA	Kerrobert, Saskatchewan, CANADA	Green Springs, Sandusky County, OH.	1,550	Gas	-	16	-	-	Gas liquids line.

TABLE 82. - Future terminal facilities in Ohio

Map Ref. No.	Plant name and location	Operating company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Sheridan, Lawrence County	Tri-State Mining	Coal transloader	10 million tons per year	Unknown	-	-	Construction permit pending with Corps of Engineers.
X2	Chesapeake, Lawrence County	Transfer Terminal Corp., Jeffersonville, IN.	Barge fleeting facility	-	-	-	-	Mooring facility and holding area for nearby coal docks.

TABLE 83. - Future gas storage projects in Ohio

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operation date	Peak employment		Remarks
							Construction	Operation	
D1	Crawford Storage Field - Fairfield and Hocking Counties	Columbia Gas Transmission Corp., Wilmington, DE.	-	115 billion cubic feet	690 million cubic feet per day	-	-	280	Permit delayed by Federal Power Commission.

TABLE 84. - Future uranium mills and enrichment facilities in Ohio

Map Ref. No.	Plant name and location	Operating company	Type	Initial operation date	Planned capacity	Peak employment		Remarks
						Construction	Operation	
A1	Uranium Enrichment Plant - Portsmouth, Scioto County	Energy Research and Development Administration (ERDA), Washington, D.C.	Gaseous diffusion	1981	9 million separative work units	-	1,200	Expansion of current facilities.

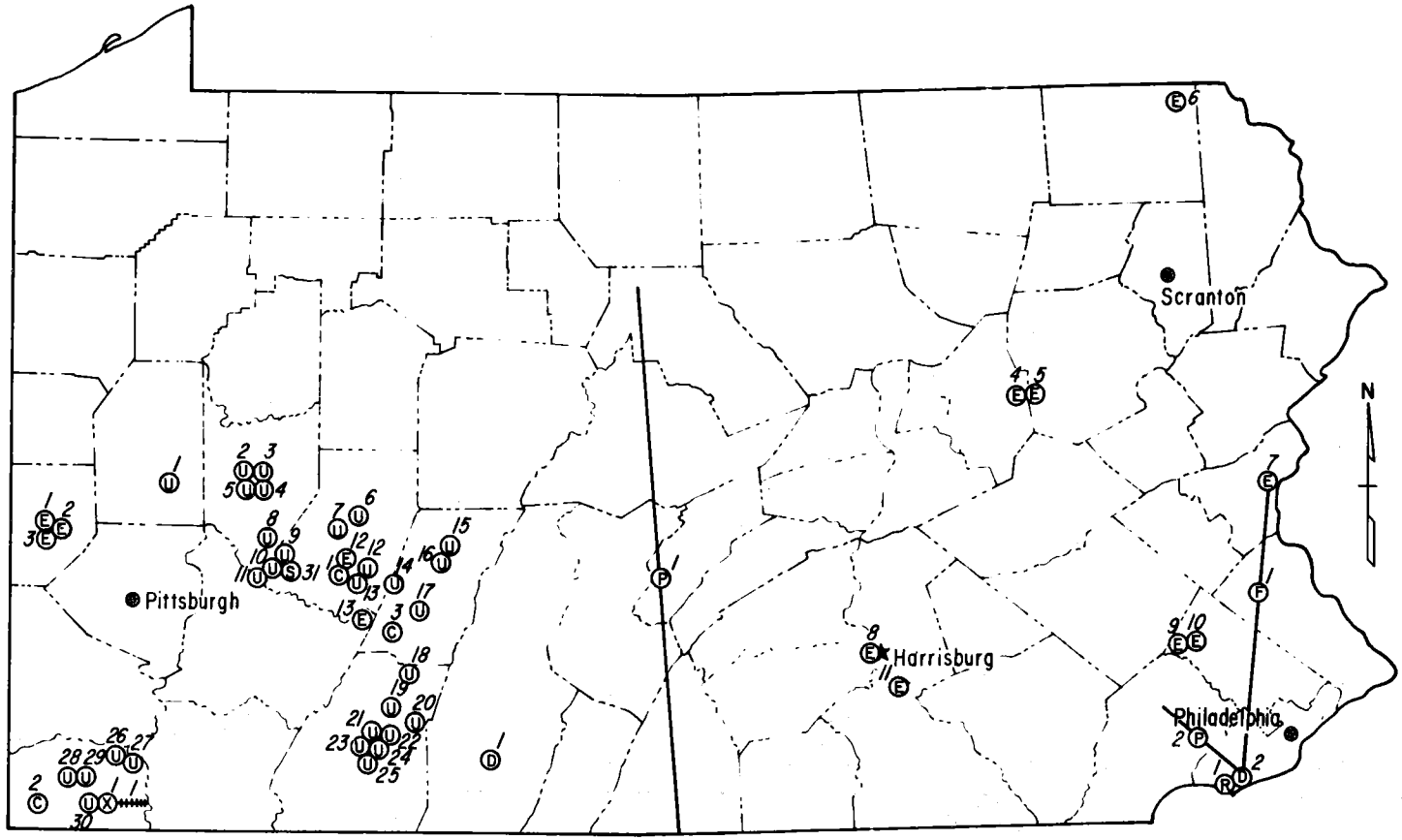

FIGURE 20. - Future fuel-related projects in Pennsylvania.

TABLE 85. - Future coal mines in Pennsylvania

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	No. 91 - near Saxonsburg, Butler County	Bethlehem Mines Corporation, Bethlehem, PA.	Under-ground	.2 - 1975 .3 - 1976 .5 - 1977	Metal-lurgical	-	42	-	-	150	Formerly owned by Union Carbide - reopened 1975.
U2	Urling 1 - central Armstrong County	Rochester and Pittsburgh Coal Co., Indiana, PA.	do.	.2 - 1975 .8 - 1976 1.2 - 1977 1.4 - 1978	Steam	-	42	-	-	800 total for 3 mines	4.2 million tons per year by 1978 from these mines will go to Key-stone Generating Plant, Elderton, Pa.
U3	Urling 2 - central Armstrong County	do.	do.	.1 - 1975 .2 - 1976	do.	-	-	-	-	do.	Do.
U4	Margaret No. 11 - central Armstrong County	do.	do.	.1 - 1975 .2 - 1976	do.	-	42	-	-	do.	Do.
U5	Urling 3 - central Armstrong County	do.	do.	.1 - 1976 .2 - 1977 .3 - 1978 .4 - 1979 .5 - 1980 .6 - 1981	do.	-	-	-	-	-	-
U6	Josephine No. 2 - Indiana County	North Armerican Coal Company, Cleveland, OH.	do.	.3 - 1976	do.	-	42	-	-	-	-
U7	Tanoma Mine - Dixonville, Indiana County	Barnes and Tucker Company, Haverford, PA.	do.	.1 - 1977 .2 - 1978 .4 - 1979 .6 - 1980	Metal-lurgical	-	-	-	-	-	-
U8	Emilie No. 4 - Elderton, Armstrong County	Rochester and Pittsburgh Coal Co., Indiana, PA.	do.	.1 - 1976 .2 - 1977	Steam	-	-	-	-	-	-
U9	Lucerne No. 9 - near Clarksburg, Indiana County	Helvetia Coal Co. Indiana, PA.	do.	.1 - 1976 .8 - 1977	do.	-	42	-	-	-	Supplies Homer City Power Plant.
U10	Lucerne No. 8 - near Clarksburg, Indiana County	do.	do.	.4 - 1976	do.	-	42	-	-	100	Do.

TABLE 85. - Future coal mines in Pennsylvania - Continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U11	Dianne Mine - Avonmore, Armstrong County	Cantebury Coal Company, Avonmore, PA.	Underground	.1 - 1976 .3 - 1977 .4 - 1978	Steam	-	-	-	-	-	-
U12	No. 4 - Five Points, Indiana County	Old Home Manor, Inc., Homer City, PA.	do.	.2 - 1975 .4 - 1976	do.	-	44	-	-	200	-
U13	No. 8 - Brush Valley, Indiana County	do.	do.	.2 - 1976	do.	-	44	-	-	200	-
U14	Yellow Creek Mine - Vintondale, Cambria County	Barnes and Tucker Co., Haverford, PA.	do.	.2 - 1979 1.0 - 1980 1.6 - 1981 1.7 - 1982	do.	-	-	-	-	-	-
U15	Grove 3 - Cambria County	G.M.&W Coal Co., Inc., State Line, PA.	do.	.3 - 1976 .6 - 1977	do.	-	-	-	-	-	-
U16	Grove 4 - Cambria County	do.	do.	.2 - 1976 .4 - 1977 .6 - 1978	do.	-	-	-	-	-	-
U17	No. 38E - north of Ehrenfield, Cambria County	Bethlehem Mines Corp., Bethlehem, PA.	do.	.1 - 1976 .3 - 1977	Metallurgical	-	41	25-250	-	280	Upper Freeport seam.
U18	No. 78 - Windber, Somerset County	do.	do.	.2 - 1975 .3 - 1976 .3 - 1977 .5 - 1978	do.	-	42-44	300-500	-	250	-
U19	Unnamed - Hooversville, Somerset County	North Somerset Mining Co., Hooversville, PA.	do.	.1 - 1976 .3 - 1977 .4 - 1978	Steam	-	42	-	-	-	-
U20	Laurel Mine - Reels Corners, Somerset County	Consolidation Coal Co., Pittsburgh, PA.	do.	.2 - 1975 .8 - 1976	Metallurgical	Less than 1% sulfur	84	400	90	200	Mine developed for National Steel Corp.
U21	Solar Fuel No. 11 - Stoystown, Somerset County	Solar Fuel Co., Somerset, PA.	do.	.1 - 1977 .2 - 1978 .3 - 1979 .4 - 1980 .5 - 1981	do.	-	-	-	-	-	-
U22	Solar Fuel No. 12 Stoystown, Somerset County	do.	do.	.1 - 1978 .2 - 1979 .3 - 1980	do.	-	-	-	-	-	-

TABLE 85. - Future coal mines in Pennsylvania - Continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U23	Solar Fuel No. 7 - Stoystown, Somerset County	Solar Fuel Co., Somerset, PA.	Under-ground	.2 - 1976 .3 - 1977	Metal-lurgical	-	42	-	-	-	-
U24	Solar Fuel No. 10 - Stoystown, Somerset County	do.	do.	.1 - 1976 .2 - 1977	do.	-	-	-	-	-	-
U25	Solar Fuel No. 9 - Stoystown, Somerset County	do.	do.	.1 - 1976 .2 - 1977	do.	-	48	-	40	-	-
U26	Henderson Mine - northeast Greene County near Monongahela River	Jones & Laughlin Steel Corp., California, PA.	do.	.5 - 1976 .5 - 1977 1.0 - 1979	do.	-	-	-	-	-	37,000 acres acquired.
U27	Dilworth Mine - Rices Landing, Greene County	U. S. Steel Corp., Pittsburgh, PA.	do.	.5 - 1975 1.0 - 1976 2.0 - 1977 3.0 - 1978	do.	-	85	160-540	-	600	Supplies coking coal to Clairton
U28	Emerald No. 1 - W. Waynesburg, Greene County	Emerald Mines Corp., Pittsburgh, PA.	do.	.4 - 1976 1.0 - 1977 2.0 - 1978	do.	-	80	400	-	-	-
U29	Emerald No. 2 - W. Waynesburg, Greene County	do.	do.	.4 - 1977 1.0 - 1978 1.6 - 1979 2.0 - 1980	do.	-	80	-	-	-	-
U30	Cumberland Mine - Kirby, Greene County	U. S. Steel Corp., Pittsburgh, PA.	do.	.4 - 1976 1.0 - 1977 1.6 - 1978 2.2 - 1979 3.0 - 1980	Steam	1.8% sulfur coal to be shipped	80	-	-	850	Will supply Ontario Hydro-mainly Plant at Nanticoke on Lake Erie
S31	Iselin No. 9 - Iselin, Indiana County	Rochester and Pittsburgh Coal Co., Indiana, PA.	Strip	.4 - 1977	do.	-	-	-	-	-	-
-	Various operations, Unlocated	Benjamin Coal Co. LaJose, PA.	do.	1.6 - 1975 1.7 - 1976 1.8 - 1977 2.1 - 1980 2.6 - 1985	do.	-	-	-	-	-	Benjamin Coal opens and closes an average of two mines a month. Past operations in Clearfield Co.

TABLE 85. - Future coal mines in Pennsylvania - Continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
-	Unnamed, Unlocated	Old Home Manor, Inc. Homer City, PA.	Under-ground	.2 - 1976 .4 - 1977	Steam	-	-	-	-	-	Past operations in Indiana Co.
-	do.	Oak Run Coal Co. Uniontown, PA.	do.	.5 - 1977 1.0 - 1978	do.	-	-	-	-	-	Past operations in Fayette Co.
-	do.	Wright Coal Co. Fombell, PA.	do.	.1 - 1976 .3 - 1977	do.	-	-	-	-	-	Past operations in Butler Co.
-	do.	do.	do.	.2 - 1977	do.	-	-	-	-	-	Do.
-	do.	do.	do.	.2 - 1976	do.	-	-	-	-	-	Do.

TABLE 86. - Future electric generating plants in Pennsylvania

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity Unit No.	Capacity Mega-watts	Initial operation date	Peak employment Construction	Peak employment Operation	Remarks
E1	Mansfield - Shippingport, Beaver County	Duquesne Light Company, Pittsburgh, PA.	Coal - 2.0	2	880	1977	1,780	200	-
E2	do.	do.	Coal - 2.1	3	917	1978	1,860	210	-
E3	Beaver Valley Power Station - Shippingport, Beaver County	Duquesne Light Co./ Ohio Edison Company, Pittsburgh, PA.	Nuclear	2	852	1981	870	70	-
E4	Susquehanna Steam Electric Station - Berwick, Columbia County	Pennsylvania Power and Light, Allentown, PA.	do.	1	1,050	1980	1,070	80	-
E5	do.	do.	do.	2	1,050	1982	1,070	80	-
E6	Susquehanna, Susquehanna County	do.	Oil	1&2	16	1980	30	5	Diesel engine.
E7	Martins Creek - Martins Creek, Northampton County	do.	Oil	4	800	1977	1,620	180	-
E8	Stoney Creek Station Harrisburg, Dauphin County	do.	Hydro	-	1,500	1982	3,050	350	Pumped storage.
E9	Limerick Generating Station - Pottstown, Montgomery County	Philadelphia Electric Company, Philadelphia, PA.	Nuclear	1	1,065	1981	1,090	90	-
E10	do.	do.	do.	2	1,065	1982	1,090	90	-
E11	Three Mile Island Nuclear Station - Goldsboro, York County	Jersey Central Power, Morristown, N.J.	do.	2	906	1978	920	70	-
E12	Homer City - Homer City, Indiana County	Pennsylvania Electric Company, Johnstown, PA.	Coal - 1.4	3	640	1978	1,300	150	-
E13	Seward - Seward, Indiana County	General Public Utilities Reading, PA.	Coal - 1.8	7	800	1984	1,620	180	-

TABLE 87. - Future coal conversion plants in Pennsylvania

Map Ref. No.	Refinery name and location	Operating company	Type and process	Estimated output (million cf/day or bbls/day)	Initial operation date	Peak employment		Remarks
						Construction	Operation	
C1	Unnamed Homer City, Indiana County	Jointly funded by government and private industry	Gasification	-	1976	-	-	High Btu.
C2	Unnamed Greene County	Consolidated Natural Gas Company, Pittsburgh, PA.	do.	-	1980's	-	-	Will adopt a proven process. Operator owns 300 million tons of recoverable coal and has purchased an additional 29,000 acres of reserves.
C3	Unnamed Cambria County	Bethlehem Steel Corp. Bethlehem, PA.	do.	-	-	-	-	500 tons of coal per day.
-	Unnamed Unlocated	Gulf Oil Corporation with MITSUI group of Pittsburgh, PA.	Solvent refined coal	-	-	-	-	Clean coal and chemical byproducts produced.

TABLE 88. - Future oil and gas pipelines in Pennsylvania

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Consolidated Natural Gas Company, Pittsburgh, PA.	Loudoun County, VA.	Leidy, Clinton County, PA.	190	Gas	-	-	-	-	Distribution of natural gas from Cove Point, Md.
P2	Transcontinental Gas Pipeline Corporation, Houston, TX.	Marcus Hook, Delaware County, PA.	Malvern, Chester County, PA.	22	Gas	Oct. 1978	36	-	-	Petition filed 1975.
F1	Interstate Energy Co.	Lower Chichester, Delaware County, PA.	Easton, Northampton County, PA.	83	Oil	1976	-	1,500	-	Fuel oil to the Martins Creek generating station.

TABLE 89. - Future railroads (related to energy development) in Pennsylvania

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Peak employment		Remarks
		Origin	Destination				Construction	Operation	
1	U. S. Steel Corporation, Pittsburgh, PA.	Kirby, Greene County	Near Alicia - Monongahela River, Greene County	17	Spur	1976	-	-	Will service U. S. Steel's new Cumberland mine.

TABLE 90. - Future terminal facilities in Pennsylvania

Map Ref. No.	Plant name and location	Operating company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Kirby, Greene County	U. S. Steel Corporation, Pittsburgh, PA.	Unit train loading system for coal	3 million tons per year	1976	-	-	Part of a joint coal preparation - unit train loading system for the Cumberland Mine.

TABLE 91. - Future oil refineries in Pennsylvania

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operation date	Peak employment		Remarks
					Construction	Operation	
R1	Chester, Delaware County	Apco Oil Corporation, Oklahoma City, OK.	Synthetic natural gas - 125 million cubic feet per day	-	-	-	Conversion of naphtha to gas - project suspended.

TABLE 92. - Future gas storage projects in Pennsylvania

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operation date	Peak employment		Remarks
							Construction	Operation	
D1	Artemas B Gas Storage, Bedford County	Columbia Gas Transmission Corp., Wilmington, DE.	Natural	2,700 million cubic feet (total)	-	-	-	-	Addition of 3 new wells and a dehydration plant to existing facilities.
D2	Located at Sun's refinery and tank farm southwest of Philadelphia in Delaware County	Sun Oil Company, St. Davids, PA.	Developed	1,186,000 barrels of LPG	-	-	-	-	Largest man-made LPG underground storage facility. Gas stored at 60°F and 90 psi under 420 ft of granite.

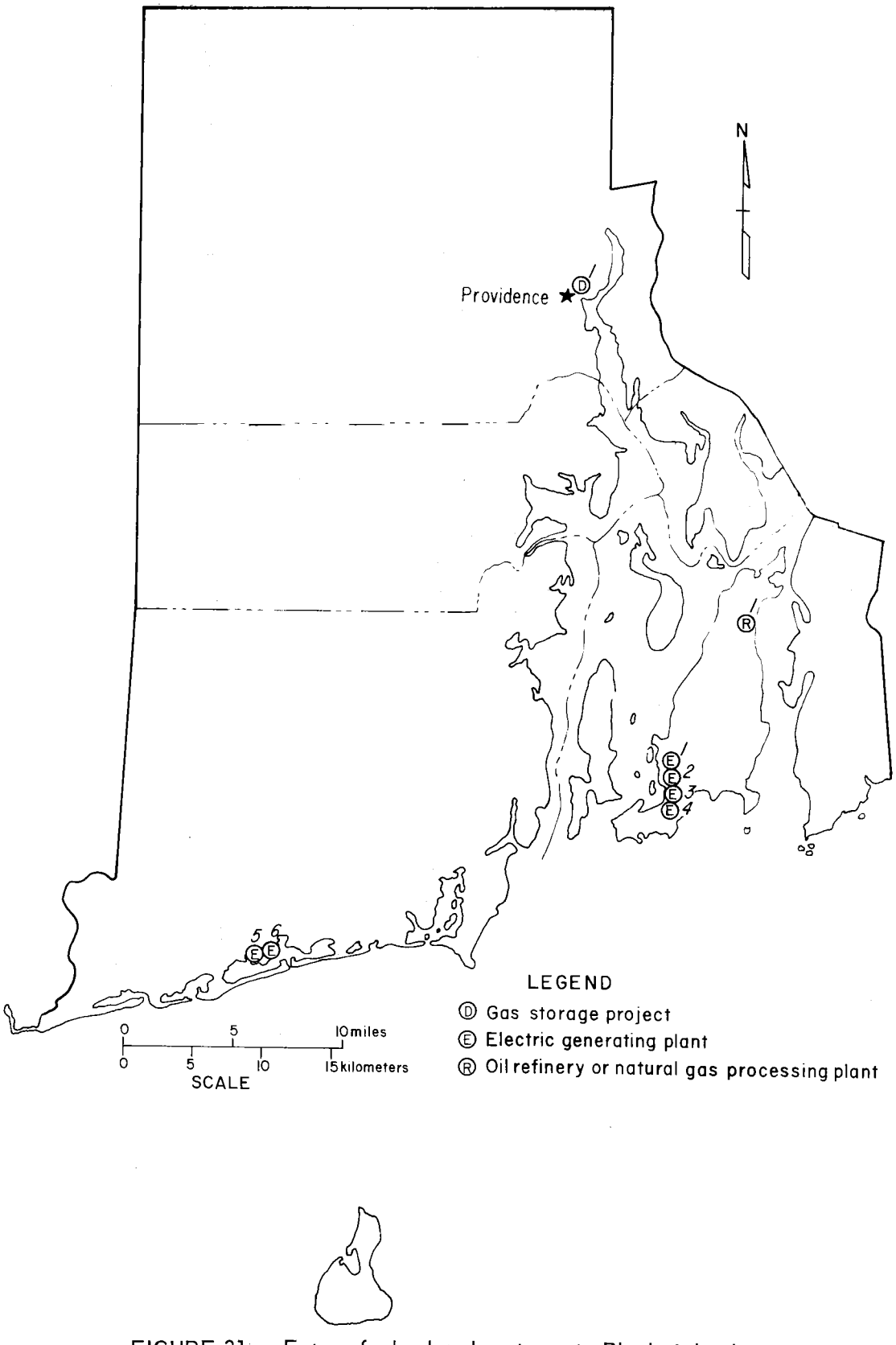

FIGURE 21. - Future fuel-related projects in Rhode Island.

TABLE 93. - Future electric generating plants in Rhode Island

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Unnamed - Newport, Newport County	Newport Electric Company, Newport, R.I.	Diesel	-	2.8	1980	-	-	Under study.
E2	do.	do.	do.	-	5.5	1979	-	-	Do.
E3	do.	do.	do.	-	2.8	1981	-	-	Do.
E4	do.	do.	do.	-	2.8	1982	-	-	Do.
E5	NEPCO - Charlestown, Washington County	New England Power Company Boston, MA.	Nuclear	1	1,150	1984	1,170	90	-
E6	do.	do.	do.	2	1,150	1986	1,170	90	-

TABLE 94. - Future oil refineries in Rhode Island

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Portsmouth, Newport County	Cumberland Farms	250	-	-	-	Permit sought -- new refinery.

TABLE 95. - Future gas storage projects in Rhode Island

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construc-tion	Opera-tion	
D1	Providence Plant - Providence, Providence County	Algonquin LNG, Inc., Providence, R.I.	-	6,000 MMCF	24 MM cf/day	-	-	-	Expansion of existing facility to double capacity.

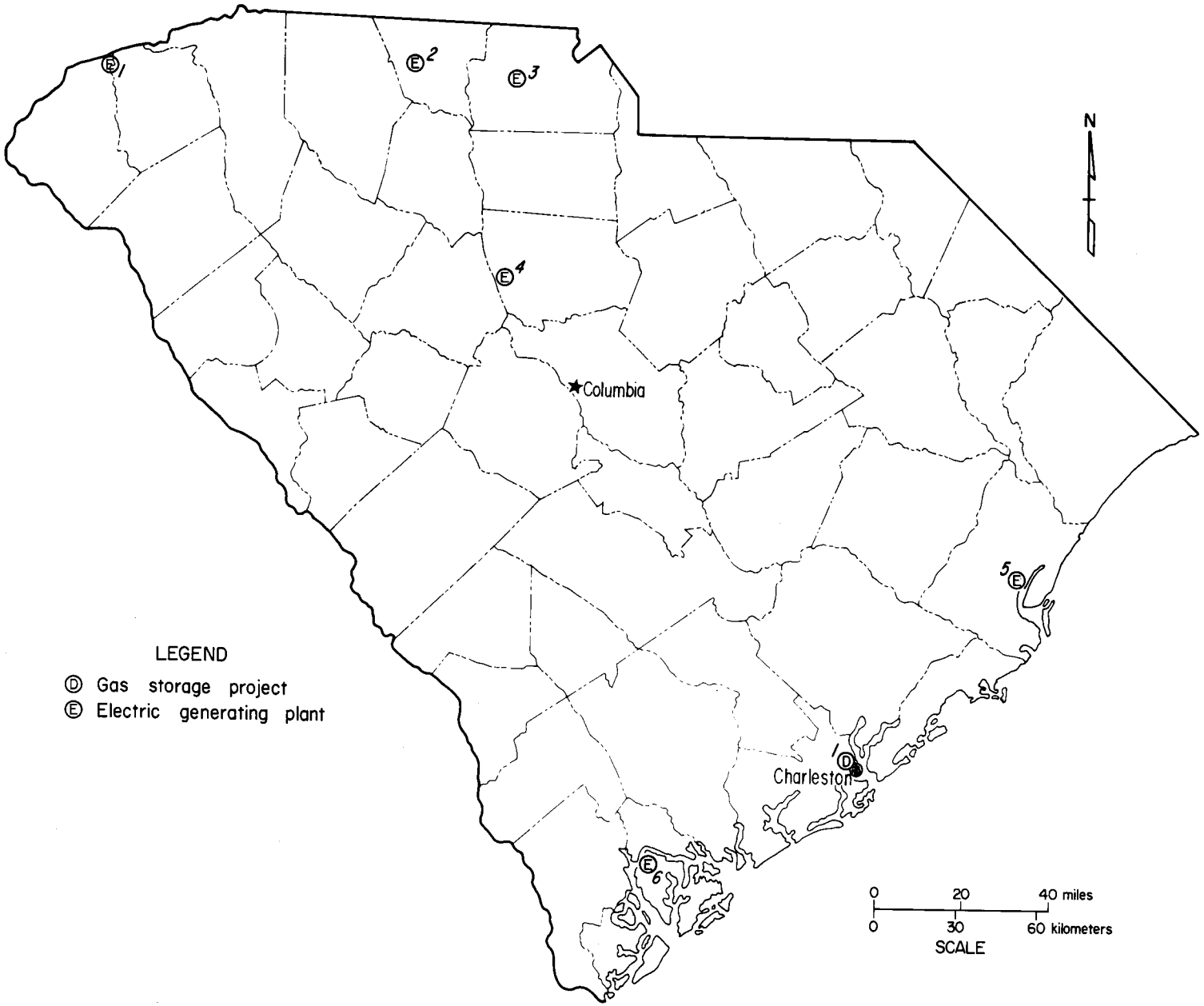

FIGURE 22. - Future fuel-related projects in South Carolina.

TABLE 96. - Future electric generating plants in South Carolina

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Jocassee - Oconee County	Duke Power Company, Charlotte, N.C.	Hydroelectric	3	-	1977	-	-	Pumped storage.
			do.	4	-	1979	-	-	do.
E2	Cherokee Nuclear Station - Cherokee County	do.	Uranium	1	1,280	1984	-	-	-
			do.	2	1,280	1986	-	-	-
			do.	3	1,280	1988	-	-	-
E3	Catawba Nuclear Station - Lake Wylie, York County	do.	do.	1	1,153	1981	-	-	-
			do.	2	1,153	1982	-	-	-
E4	Fairfield - Parr, Fairfield County	South Carolina Electric and Gas Company, Columbia, S.C.	Hydroelectric	1-4	240	1977	-	-	Pumped storage (4 units)
			do.	5-8	240	1979	-	-	do.
E5	Georgetown - Georgetown, Georgetown County	South Carolina Public Service Authority, Moncks Corner, S.C.	Coal	2	280	1977	-	-	-
			Coal	3	280	1980	-	-	-
E6	Summer Nuclear Station- Beaufort County	South Carolina Electric and Gas Company, Columbia, S.C.	Uranium	1	900	1979	-	-	-

TABLE 97. - Future gas storage projects in South Carolina

Map Ref. No.	Field or facility name and location	Operating company	Type	Capacity	Peak load deliverability	Initial operating date	Peak employment		Remarks
							Construc-tion	Opera-tion	
D1	Bushy Park Facility - one-half mile from South Carolina Electric and Gas Company steam plant	South Carolina LNG Company, Bushy Park Industrial Park, Goose Creek, S.C.		290,000 barrels	60 million cubic feet per day	August 1976	60	13	Plant construction is 50 percent complete. Company will get gas from its own system pipeline. Market area will be systemwide.

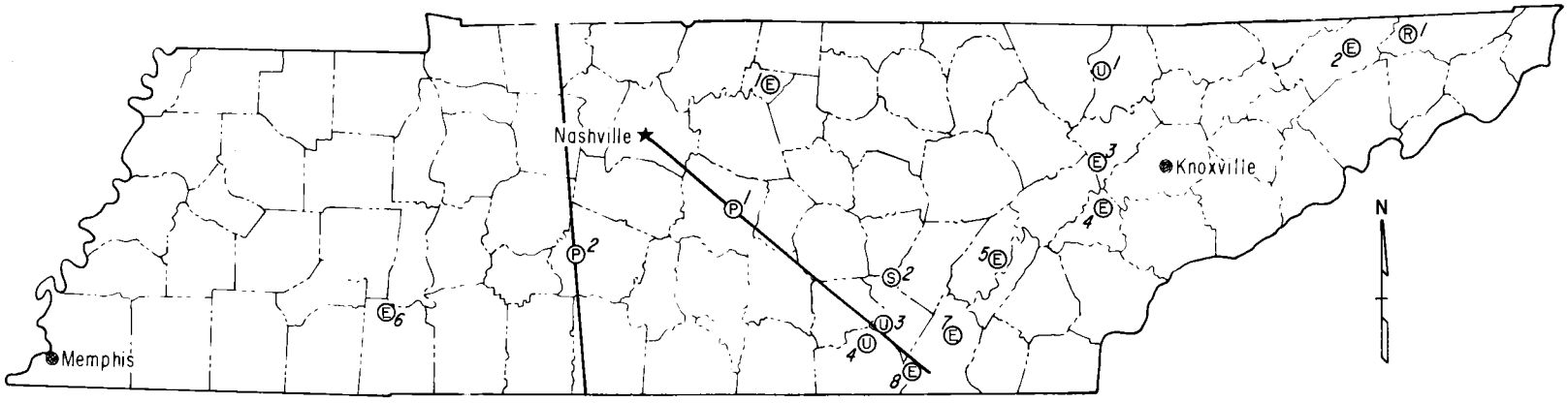

FIGURE 23. - Future fuel-related projects in Tennessee.

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TABLE 98. - Future coal mines in Tennessee

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Plateau No. 2 and Plateau No. 3 - Campbell County	Plateau Mining Co. Oakridge, TN.	Under-ground	0.8 - 1977	Steam (TVA)	S - 3.0% Btu- 12,700 Ash - 14.1%	42-45	-	-	-	-
S2	Amax-Tenn No. 1 - Bledsoe, VanBuren, and Sequatchie Counties	Amax-Tenn, Inc., Dunlap, TN.	Strip	0.6 - 1977 1.4 - 1978	Metal-lurgical	S - 1.6% Btu- 13,300 Ash - 12.4%	36	150	-	290	Will be Tennessee's largest surface coal mine.
U3	No. 24, 28 & 30 - Sequatchie County	Grundy Mining Co., Jasper, TN.	Under-ground	0.8 - 1976 1.3 - 1977 (includes No. 21)	Metal-lurgical (foreign)	S - 1.2% Btu- 13,500 Ash - 10.9%	36-40	-	600 (includes No. 21)	-	-
U4	No. 21 - Marion County	do.	do.	included in No. 24, 28, and 30	do.	S - 1.2% Btu- 13,500 Ash - 10.9%	36-40	-	included in No.24, 28 & 30	-	-

TABLE 99. - Future electric generating plants in Tennessee

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Hartsville Nuclear Plant - Trousdale County	Tennessee Valley Authority, Chattanooga, TN.	Nuclear	-	5,148	1981-83	5,700	300	Includes four units; work is scheduled to begin in April 1976.
E2	Phipps Beud Nuclear Plant - Hawkins County	do.	do.	-	2,574	1983-84	3,000	150	Includes two units; work is scheduled to begin in 1977.
E3	Clinch River Breeder Reactor - Oak Ridge, Anderson County	Project Management Corporation	Nuclear	-	350	1982	-	-	-
E4	Tellico Dam - Loudon County	Tennessee Valley Authority, Chattanooga, TN.	Hydroelectric	-	200	Not announced	280	None	This project will have no powerhouse but will be connected by canal to Ft. Loudon Lake and will increase the capacity of that plant by the amount shown.
E5	Watts Bar Nuclear Plant - Rhea County	do.	Nuclear	-	2,540	1978-79	3,000	150	Includes two units; plant under construction
E6	Saltillo Nuclear Plant - Hardin County	do.	do.	-	2,814	1983-84	3,000	150	Includes two units; an alternate site for this plant is in Tishomingo MS. - no formal announcement has been made.
E7	Sequoyah Nulcear Plant - Hamilton County	do.	do.	-	2,441	1977-78	3,000	150	Includes two units; under construction.
E8	Racoon Mountain Pumped Storage - Hamilton County	do.	Hydroelectric	-	1,530	1978	1,610	-	-

TABLE 100. - Future natural gas processing plants in Tennessee

Map Ref. No.	Plant name and location	Operating company	Throughput capacity (million cubic feet per day)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Kingsport, Sullivan County	East Tennessee Natural Gas Company, Kingsport, TN.	5.5	-	-	-	LNG plant.

TABLE 101. - Future oil and gas pipelines in Tennessee

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Colonial Pipeline Co.	Chattanooga, Hamilton County	Nashville, Davidson County	60	Pet. prod.	-	10 & 12	-	-	-
P2	Anglo Pipeline Co., Calgary, Alberta, CANADA	Kerrobert, Saskatchewan, CANADA	Green Springs, Adams County, OH.	1,550	Gas	-	26	-	-	Gas liquids line.

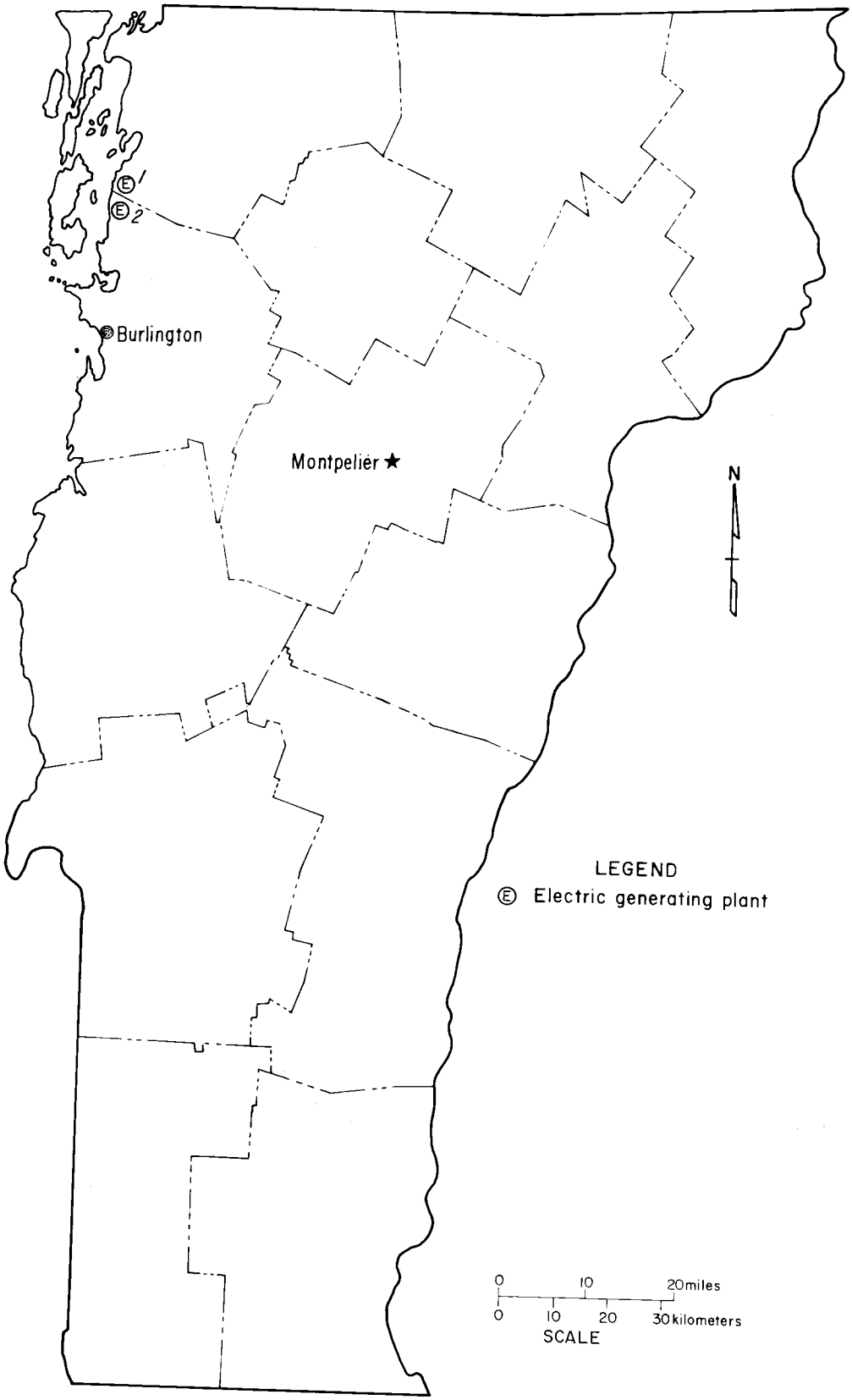

FIGURE 24. - Future fuel-related projects in Vermont.

TABLE 102. - Future electric generating plants in Vermont

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Unnamed - Georgia, Franklin County	Central Vermont Public Service Corporation, Milton, VT.	Oil OR Gas	-	329	1977	670	75	Combined cycle.
E2	Green Mountain - Milton, Chittenden County	Green Mountain Power Company	Wood Wastes	-	40	-	-	-	Planned conversion of obsolete oil fired plant.

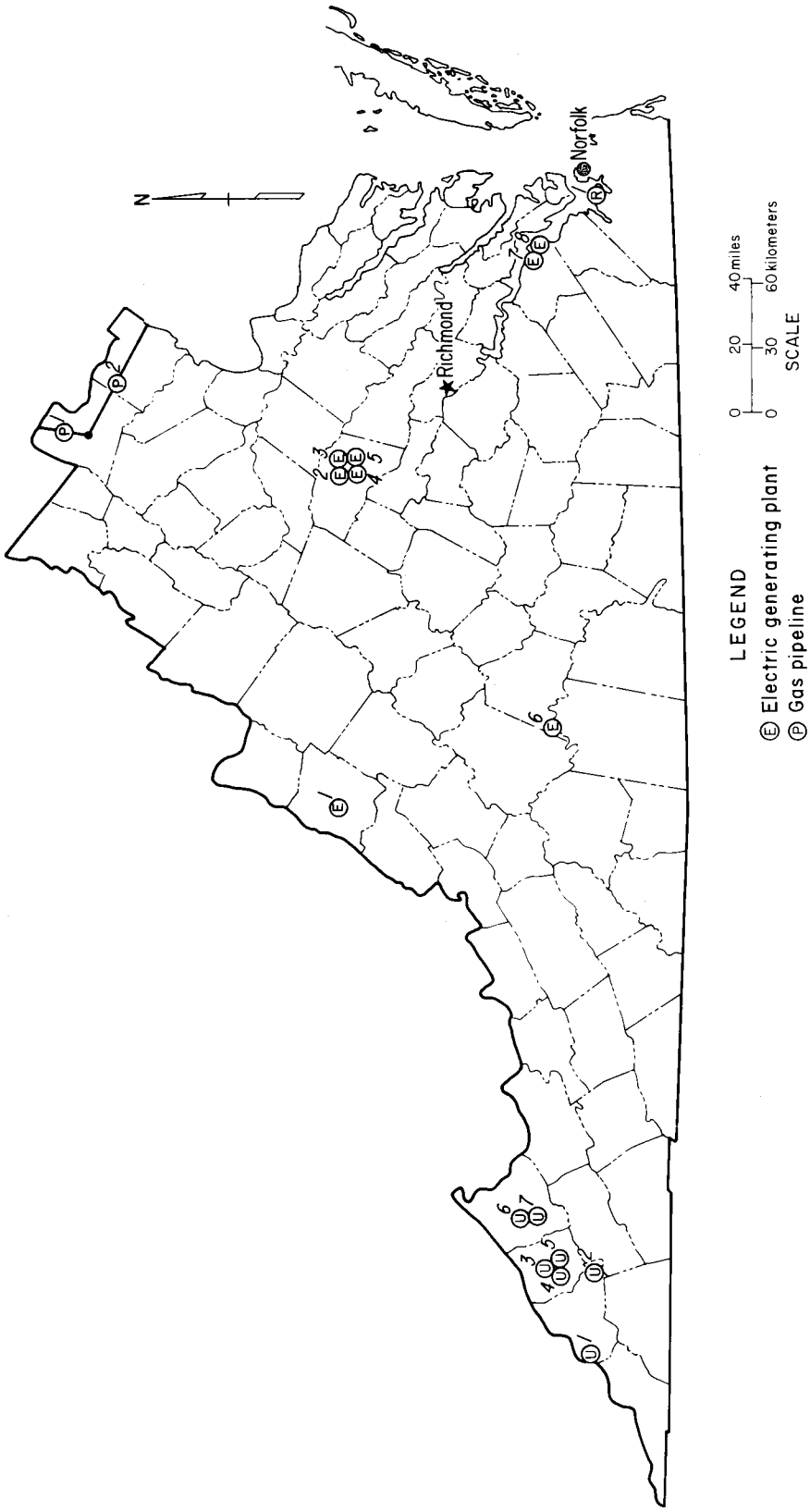

FIGURE 25. - Future fuel-related projects in Virginia.

TABLE 103. - Future coal mines in Virginia

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Holton-Taggart - Appalachia, Wise County	Westmoreland Coal Company, Philadelphia, PA.	Under-ground	.3 - 1976 .6 - 1977 .7 - 1978	Metal-lurgical & Steam	-	66-72	-	-	300	-
U2	Virginia No. 2 - St. Paul, Wise County	Eastover Mining Company, Brookside, KY.	do.	.3 - 1976 .4 - 1977	Steam	-	60-84	-	-	200	-
U3	McClure No. 1 - McClure, Dickenson County	Clinchfield Div., Pittston Company, Dante, VA.	do.	1.0 - 1977	Metal-lurgical	-	60-84	-	-	800	-
U4	McClure No. 2 - McClure, Dickenson County	do.	do.	1.0 - 1977	do.	-	60-84	-	-	800	-
U5	McClure No. 3 - McClure, Dickenson County	do.	do.	1.0 - 1978	do.	-	60-84	-	-	800	-
U6	Virginia Poca-hontas No. 5 - Vansant, Buchanan County	Island Creek Coal Company, Lexington, KY.	do.	.1 - 1976 .4 - 1977 1.2 - 1980	do.	-	48-60	-	-	575	Joint venture with Alabama By-Products Corp.
U7	Virginia Poca-hontas No. 6 - Vansant, Buchanan County	do.	do.	1.2 - 1983	do.	-	48-60	-	-	500	Partially owned by Rumanian interests.
-	Unnamed - Unlocated	Pittston Company, New York, N.Y.	do.	1.0 - 1979	Steam	-	-	-	-	-	-
-	do.	do.	do.	1.0 - 1981	do.	-	-	-	-	-	-

TABLE 104. - Future electric generating plants in Virginia

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Bath County Power Plant - Bath County	Virginia Electric and Power Company	Hydroelectric	1-6	1,050	1982	2,130	240	Pumped storage.
E2	North Anna Power Station - Mineral, Louisa County	do.	Nuclear	1	898	1977	915	70	-
E3	do.	do.	do.	2	898	1977	915	70	-
E4	do.	do.	do.	3	907	1980	925	70	-
E5	do.	do.	do.	4	907	1981	925	70	-
E6	Smith Mountain Dam - Roanoke River, Campbell County	do.	Hydroelectric	5	100	1977	-	-	-
E7	Surry Power Station - Gravel Neck, Surry County	do.	Nuclear	3	859	1983	880	70	-
E8	do.	do.	do.	4	859	1984	880	70	-

TABLE 105. - Future oil and gas pipelines in Virginia

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Consolidated Natural Gas Company, Pittsburgh, PA.	Loudoun County, VA.	Leidy, Clinton County, PA.	190	Gas	-	-	-	-	-
P2	do.	Cove Point, Calvert County MD.	Loudoun County, VA.	83	Gas	-	-	-	-	-

TABLE 106. - Future oil refineries in Virginia

Map Ref. No.	Refinery name and location	Operating company	Throughput capacity (thousand bbl/day of crude oil)	Initial operating date	Peak employment		Remarks
					Construction	Operation	
R1	Unnamed - Portsmouth, Norfolk County	Hampton Roads Energy Company Portsmouth, VA.	184	1978	-	-	New refinery.

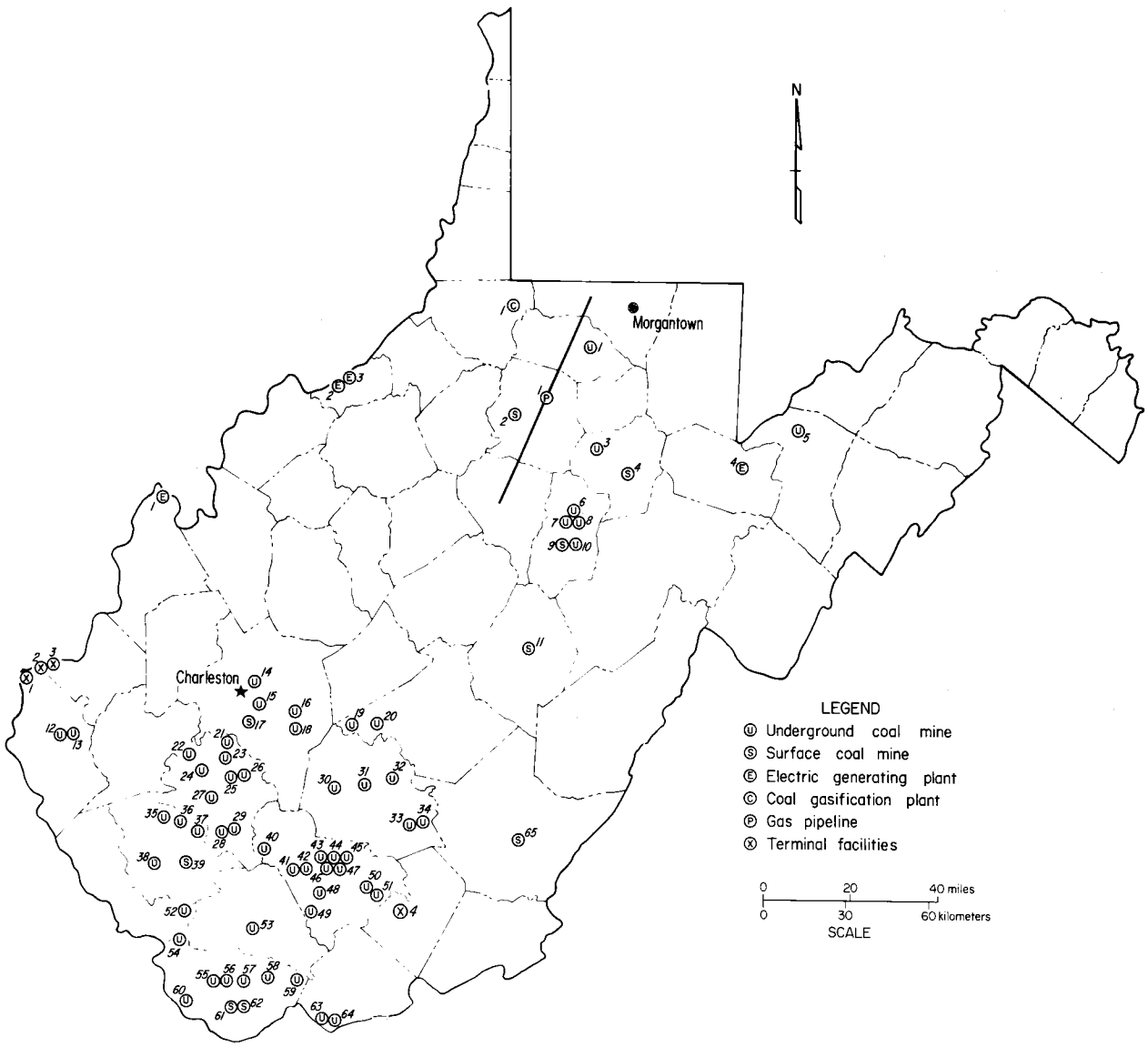

FIGURE 26. - Future fuel-related projects in West Virginia.

TABLE 107. - Future coal mines in West Virginia

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U1	Martinka No. 1 - Fairmont, Marion County	Southern Ohio Coal Company, New York, N.Y.	Under-ground	1.3 - 1975 2.0 - 1976	Steam	-	58	-	-	850	Subsidiary of American Electric Power Corp.
S2	Unnamed - Harrison County	Grafton Coal Co., Clarksburg, W.VA.	Strip	0.2 - 1976 0.8 - 1977 0.9 - 1978	Metal-lurgical	-	39	-	-	110	-
U3	Kitt Mine - Galloway, Barbour County	Republic Steel Corporation, Cleveland, OH.	Under-ground	0.4 - 1976 1.0 - 1977	do.	-	-	-	-	500	-
S4	Unnamed - Barbour County	Barbour Coal Co., Clarksburg, W.VA.	Strip	0.3 - 1976 0.8 - 1977	do.	-	50	-	-	100	-
U5	No. 1 - Mt. Storm, Grant County	Laurel Run Mining Co., Richmond, VA.	Under-ground	1.1 - 1976 1.5 - 1977	Steam	-	74	-	-	350	Subsidiary of Vepco.
U6	Grand Badger #1 - Sago, Upshur County	Badger Coal Co., New York, N.Y.	do.	.8 - 1975 1.3 - 1976	Metal-lurgical	-	56	-	-	500	Subsidiary of Pittston Co.
U7	Grand Badger #2 - Sago, Upshur County	do.	do.	.4 - 1977 .7 - 1978 1.3 - 1980	do.	-	56	-	-	500	Do.
U8	Buckhannon - Sago, Upshur County	do.	do.	.1 - 1976 .5 - 1977 1.0 - 1978	do.	-	-	-	-	450	Do.
S9	Upshur No. 1 - Upshur County	Island Creek Coal Company, Lexington, KY.	Strip	.4 - 1978 1.4 - 1979 1.7 - 1980	Steam	-	-	-	-	150	-
U10	Upshur No. 2 - Upshur County	do.	Under-ground	.5 - 1978 2.0 - 1979 3.0 - 1980	do.	-	-	-	-	650	-
S11	Unnamed - Webster County	Allegheny Pitts-burgh Coal Co., Greensburg, PA.	Strip	1.0 - 1976 1.1 - 1979	Metal-lurgical & Steam	-	65	-	-	110	Subsidiary of Allegheny Power Service Corp.
U12	Unnamed - East Lynn, Wayne County	Monterey Coal Co., New York, N.Y.	Under-ground	.4 - 1977 1.4 - 1978 4.4 - 1981	Metal-lurgical	-	-	-	-	1,530	Subsidiary of Exxon Corp. - Capacity and employment for two mines.
U13	do.	do.	do.	See remarks	do.	-	-	-	-	See remarks	Do.

TABLE 107. - Future coal mines in West Virginia - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U14	Mine No. 125 - Cannelton, Kanawha County	Cannelton Industries, Inc., Cannelton, W.VA.	Under-ground	.1 - 1975 .2 - 1976	Metal-lurgical	-	72	-	19	200	-
U15	Unnamed - Kanawha County	Carbon Fuel Co., Charleston, W.VA.	do.	.7 - 1976 .9 - 1977	do.	-	-	-	-	450	-
U16	Donaldson Mine - Cedar Grove, Kanawha County	Valley Camp Coal Company, Cleveland, OH.	do.	.5 - 1976	Steam	-	-	-	-	500	-
S17	Spring Fork - Kanawha County	Bell Petroleum, Encino, CA.	Strip	.2 - 1975 .4 - 1976	do.	-	-	-	-	90	-
U18	Cedar Grove - Kanawha County	Valley Camp Coal Company, Cleveland, OH.	Under-ground	.5 - 1976 1.0 - 1977 2.0 - 1979	do.	-	-	-	-	600	-
U19	Twenty Mile Creek - Vaughan, Nicholas County	Bethlehem Mines Corporation, Bethlehem, PA.	do.	.6 - 1982 1.6 - 1985	Metal-lurgical	-	45	-	-	600	-
U20	Jerry Fork - Drennen, Nicholas County	do.	do.	.1 - 1976 .4 - 1977	do.	-	45	-	-	270	-
U21	Madison Mine - Peytona, Boone County	Kanawha Coal Co., Cleveland, OH.	do.	1.0 - 1978	do.	-	42	-	-	100	Subsidiary of Pickands Mather
U22	Ivy Creek - Julian, Boone County	Southern Appalachia Coal, New York, N.Y.	do.	.3 - 1976 .5 - 1977	Steam	-	40	-	-	170	Subsidiary of A.E.P.
U23	Indian Creek Mine - Peytona, Boone County	Cannelton Industries, Inc., Cannelton, W.VA.	do.	1.0 - 1978	Metal-lurgical	-	-	-	-	500	-
U24	Twin Poplar No. 1 - Boone County	Cedar Coal Co., New York, N.Y.	do.	.1 - 1977 .3 - 1978	Steam	-	-	-	-	100	Subsidiary of A.E.P.
U25	Big John No. 3 - Boone County	do.	do.	.2 - 1977	do.	-	-	-	-	200	Do.
U26	Big John No. 2 - Boone County	do.	do.	.1 - 1977 .3 - 1978	do.	-	-	-	-	100	Do.
U27	No. 131 - Van, Boone County	Bethlehem Mines Corporation, Bethlehem, PA.	do.	.2 - 1976 .4 - 1977 .8 - 1978	Metal-lurgical	-	54	-	-	250	-

TABLE 107. - Future coal mines in West Virginia - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U28	Lightfoot No. 1 - Pond Fork, Boone County	Eastern Assoc. Coal Company, Pittsburgh, PA.	Under-ground	.1 - 1976 .2 - 1977 .8 - 1981	Metal-lurgical	-	-	-	-	350	-
U29	Lightfoot No. 2 - Pond Fork, Boone County	do.	do.	.1 - 1975 .2 - 1977 .8 - 1981	do.	-	-	-	-	350	-
U30	Beard's Fork Beard's Fork, Fayette County	Hawley Fuels Corp. New York, N.Y.	Under-ground AND Strip	.2 - 1975 .4 - 1976	do.	12,000 to 13,800 Btu 0.8% S 6-10% Ash	30 & 32	-	62	-	Two seams - Littleton = 32" Powellton = 30"
U31	Unnamed - Fayette City, Fayette County	Riverton Coal Co., Oak Hill, W.VA.	do.	.7 - 1976	do.	-	-	-	-	600	Eagle coal seam.
U32	Meadow River - Lookout, Fayette County	Sewell Coal Co., New York, N.Y.	Under-ground	.6 - 1975 1.0 - 1976 1.2 - 1977	do.	-	40	-	-	400	Subsidiary of Pittston Co.
U33	Royal No. 11 - Damese, Fayette County	United Pocahontas Coal Company, Beckley, W.VA.	do.	.1 - 1975 .5 - 1976	do.	-	-	-	-	200	-
U34	Royal No. 12 - Damese, Fayette County	do.	do.	.5 - 1976	do.	-	-	-	-	200	-
U35	Betty - Logan County	Zapata Coal Corp., Sharples, W.VA.	do.	.5 - 1976	Steam	-	48	-	36	-	Chilton seam.
U36	Donna - Logan County	do.	do.	.5 - 1976	Metal-lurgical	-	54	-	36	-	Do.
U37	Jean - Logan County	do.	do.	.5 - 1976	do.	-	48	-	36	-	Buffalo seam.
U38	Rum Creek - Lyburn, Logan County	Elkay Mining Co., New York, N.Y.	do.	.1 - 1975 .5 - 1976 1.0 - 1977	Metal-lurgical & Steam	-	46	-	32	-	Cedar Grove seam- Subsidiary of Pittston Co.
U39	Unnamed - Logan County	Island Creek Coal Company, Lexington, KY.	Strip	.4 - 1976 .6 - 1977 1.2 - 1978	Steam	-	45	-	-	-	-
U40	Sundial Mine - Edwight, Raleigh County	Armco Steel Corp, Middletown, OH.	Under-ground	.2 - 1976 .6 - 1977 1.0 - 1978	Metal-lurgical	-	-	-	-	300	-

TABLE 107. - Future coal mines in West Virginia - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U41	Beckley Mine - Glen Daniel, Raleigh County	Beckley Coal Mining Company, Cannelton, W.VA.	Under-ground	.5 - 1975 1.0 - 1976 1.5 - 1977	Metal-lurgical	-	66	-	50	450	Beckley seam.
U42	Maple Meadow Mine - Fairdale, Raleigh County	Maple Meadow Mining Company, Cannelton, W.VA.	do.	.3 - 1975 .6 - 1976 1.3 - 1979	do.	Moisture- 5% Ash - 5% S - .8% Btu - 15,000 Vol.Mat.-18%	101	735 at portal	-	500	Do.
U43	Unnamed - Beckley, Raleigh County	Chessie System, Cleveland, OH./ USINOR, Dunkirk, France	do.	.5 - 1977 1.0 - 1978 3.0 - 1980	do.	-	-	-	-	650	-
U44	New River Mine - Beckley, Raleigh County	do.	do.	.2 - 1977 .5 - 1978 1.0 - 1980	do.	-	-	-	-	400	-
U45	Beckley No. 1 - Beckley, Wyoming County	Ranger Fuel Corp., New York, N.Y.	do.	.2 - 1975 1.0 - 1976	do.	-	92	-	400	-	Beckley & Sewell seams - sub. of Pittston Co.
U46	Beckley No. 2 - Beckley, Wyoming County	do.	do.	.8 - 1975 1.2 - 1976	do.	-	92	-	400	450	Do.
U47	Beckley No. 3 - Beckley, Wyoming County	do.	do.	.2 - 1976 .8 - 1977 1.2 - 1978	do.	-	-	-	400	450	Do.
U48	Keystone No. 5 - Sophia, Raleigh County	Affinity Mining Company, Pittsburgh, PA.	do.	.4 - 1975 .6 - 1976 .8 - 1977	do.	-	40	-	390	-	Pocahontas No.3 sub. of Eastern Assoc. Coal Corp.
U49	Triangle Mine - Tams, Raleigh County	Westmoreland Coal Company, Philadelphia, PA.	do.	.3 - 1978 .4 - 1979 .7 - 1981	do.	-	-	-	-	425	Pocahontas No. 3
U50	Coal Fork No. 1 - White Oak, Raleigh County	Cedar Coal Co., New York, N.Y.	do.	.1 - 1975 .2 - 1976	Steam	-	-	-	-	70	Subsidiary of A.E.P.
U51	Coal Fork No. 2 - White Oak, Raleigh County	do.	do.	.1 - 1975	do.	-	-	-	-	70	Do.

TABLE 107. - Future coal mines in West Virginia - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U52	Unnamed - Gilbert, Mingo County	Hawley Fuel Corp., New York, N.Y.	Underground AND Strip	.2 - 1976 .8 - 1977 1.0 - 1978	Metallurgical	-	-	-	-	200	-
U53	Kepler Mine - Pineville, Wyoming County	National Steel Corporation, Pittsburgh, PA.	Underground	.2 - 1976 .6 - 1977	do.	-	40	-	-	425	Reopened mine.
U54	Peter White Mine - Isaban, McDowell County	Peter White Coal Mining Corp., Isaban, W.VA.	Underground AND Strip	.5 - 1975 1.0 - 1976	do.	-	-	-	-	200	Operated by Hawley Fuel Corp.
U55	War Creek No. 5 - Coalwood, McDowell County	Olga Coal Co., Youngstown, OH.	Underground	.2 - 1975 .4 - 1977 .8 - 1978	do.	-	48	-	-	80	Subsidiary of Youngstown Steel.
U56	Caretta No. 4 - Coalwood, McDowell County	do.	do.	.1 - 1975 .2 - 1976	do.	-	50	-	-	20	Do.
U57	Mine No. 2 - Superior, McDowell County	Cannelton Industries, Inc., Cannelton, W.VA.	do.	.1 - 1976	do.	-	36	-	-	-	Pocahontas No. 11 seam.
U58	Glade Creek Mine - McDowell County	United Pocahontas Coal Company, Beckley, W.VA.	do.	.5 - 1978	do.	-	-	-	-	200	-
U59	United No. 19 - Crumpler, McDowell County	do.	do.	.5 - 1976	do.	-	-	-	-	200	-
U60	Bradshaw Mine - Bradshaw, McDowell County	Elkay Mining Co., New York, N.Y.	do.	.1 - 1975 .5 - 1976 1.0 - 1977	Metallurgical & Steam	-	-	-	-	400	Subsidiary of Pittston Co.
S61	Unnamed - McDowell County	Eastern Assoc. Coal Corp., Pittsburgh, PA.	Strip	.5 - 1976 1.0 - 1977	Metallurgical	-	38	-	-	110	-
S62	do.	do.	do.	.5 - 1976 1.0 - 1978	do.	-	34	-	-	110	-

TABLE 107. - Future coal mines in West Virginia - continued

Map Ref. No.	Mine name and location	Operating company	Mine type	Annual capacity, million tons and year	Planned markets	Analytical information	Seam thickness, inches	Depth or overburden thickness, feet	Employment		Remarks
									Present	Maximum	
U63	Brush Fork No. 1 - Mercer County	Bell Petroleum, Encino, CA.	Under-ground	.1 - 1975 .2 - 1976	Steam	-	-	-	-	90	-
U64	Brush Fork No. 2 - Mercer County	do.	do.	.1 - 1975 .2 - 1976	do.	-	-	-	-	90	-
S65	Unnamed - Greenbrier County	Sewell Coal Co., New York, N.Y.	Strip	.2 - 1976 .8 - 1977 .9 - 1978	Metal-lurgical	-	39	-	-	100	Subsidiary of Pittston Co.

TABLE 108. - Future electric generating plants in West Virginia

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Unnamed - New Haven, Mason County	Appalachian Power Co., Roanoke, VA.	Coal - 2.9	-	1,300	1978	2,640	300	-
E2	Pleasants- St. Marys, Pleasants County	Monongahela Power Co., Fairmont, W.VA.	Coal - 1.4	1	626	1979	1,270	145	-
E3	do.	do.	Coal - 1.4	2	626	1980	1,270	145	-
E4	Blackwater River - Davis, Tucker County	do.	Hydroelectric	-	1,000	1978	2,030	230	Four 250 megawatts units; pumped storage. Proposal made by opponents for alternate location on Glade Run.

TABLE 109. - Future coal conversion plants in West Virginia

Map Ref. No.	Refinery name and location	Operating company	Type and process	Estimated output (million cf/day or bbls/day)	Initial operating date	Peak employment		Remarks
						Construction	Operation	
C1	Unnamed - 50 miles west of Morgantown, Wetzel County	Paramount Exploration, Inc., Waynesburg, PA.	Underground gasification	-	1976	-	-	Contracted by ERDA: three wells were to be drilled by November 1975.

TABLE 110. - Future oil and gas pipelines in West Virginia

Map Ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Peak employment		Remarks
		Origin	Destination					Construction	Operation	
P1	Equitable Gas Co., Pittsburgh, PA.	Lewis County, W.VA.	Monongalia County, W.VA.	47.6	Gas	1976	20	-	-	Gas pipeline.

TABLE 111. - Future terminal facilities in West Virginia

Map Ref. No.	Terminal location	Operating Company	Type	Capacity	Initial operating date	Peak employment		Remarks
						Construction	Operation	
X1	Ceredo, Wayne County	Oglebay Norton Company, Cleveland, OH.	Coal transloader	8 million tons per year	-	-	-	Expansion of present capacity to 8 million tons per year; rail to barge.
X2	Huntington, Cabell County	Unknown	do.	2.5 million tons per year	-	-	-	Four docks to be built by unspecified companies; construction applications approved by Corps of Engineers.
X3	do.	do.	do.	12 million tons per year	-	-	-	Ten docks planned for construction; applications pending with Corps of Engineers.
X4	Meadow Creek, Summers County	New River Company	Coal preparation plant	1 million tons per year	1979	75	35	Subsidiary of Chessie System.

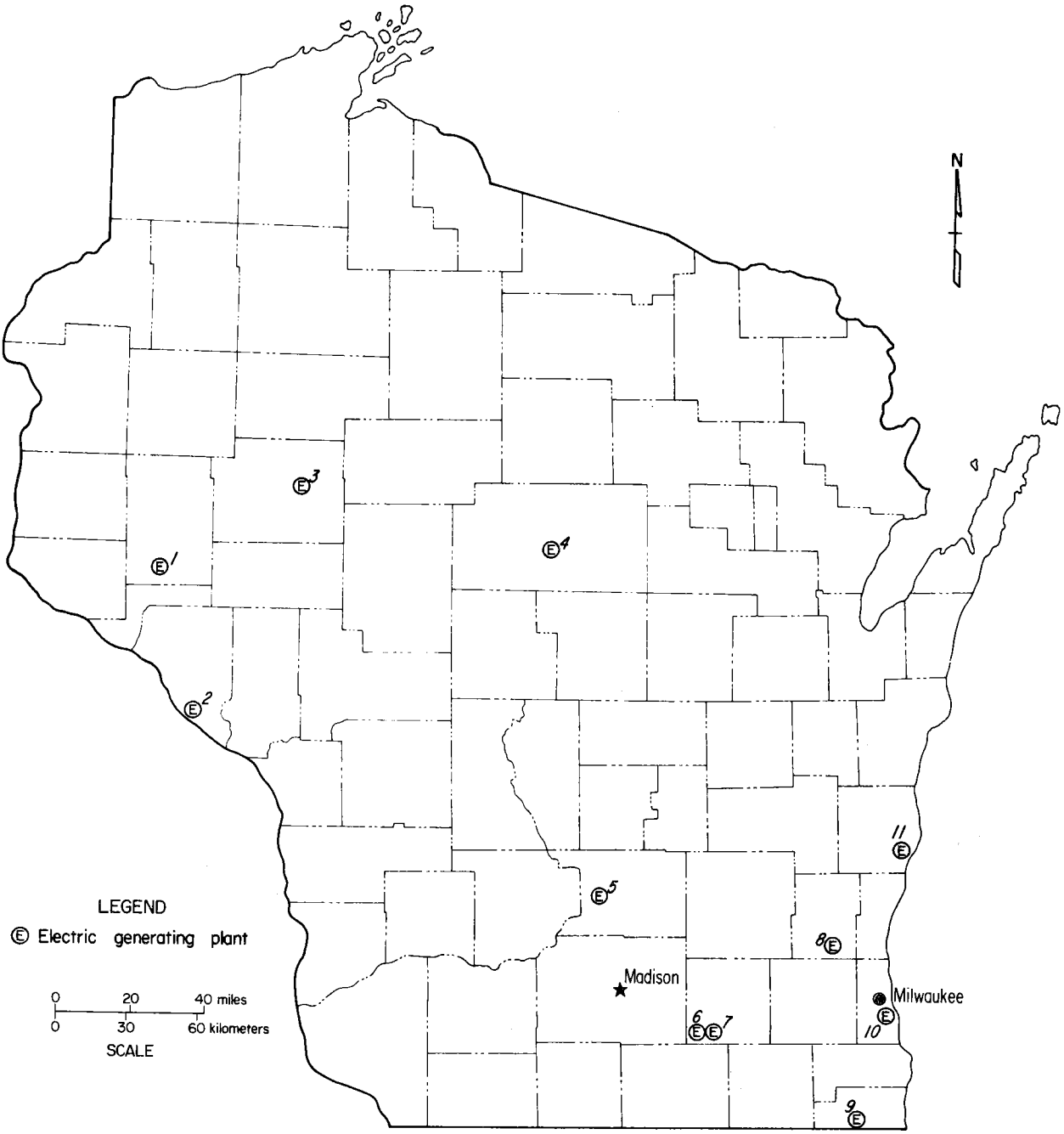

FIGURE 27. - Future fuel-related projects in Wisconsin.

TABLE 112. - Future electric generating plants in Wisconsin

Map Ref. No.	Plant name and location	Operating company	Fuel, (million tons/yr. for coal)	Capacity		Initial operating date	Peak employment		Remarks
				Unit No.	Mega-watts		Construction	Operation	
E1	Tyrone - Dunn County	Northern States Power, Minneapolis, MN. and Dairyland Power Coop., LaCrosse, WI.	Uranium	1	1,150	1985	1,500	180	-
E2	Alma - Buffalo County	do.	Coal - 1.3	6	350	1978	600	50	-
E3	Cornell - Chippewa County	Northern States Power, Minneapolis, MN.	Hydroelectric	4	30	1976	75	-	Additional unit will not require an increase in operating employment.
E4	Weston - Marathon County	Wisconsin Public Service, Green Bay, WI.	Coal - 1.0	3	300	1981	450	70	-
E5	Columbia - Columbia County	Wisconsin Power & Light, Madison, WI. - Wisconsin Public Service, Green Bay, WI. - Madison Gas & Electric, Madison, WI.	Coal - 1.9	2	527	1978	300	35	-
E6	Koshkonong - Jefferson County	Wisconsin Electric Power, Milwaukee, WI. - Wisconsin Power & Light, Madison, WI. - Madison Gas & Electric, Madison, WI. - Wisconsin Public Service, Green Bay, WI.	Uranium	1	900	1983	2,200	110	-
E7	do.	do.	do.	2	900	1984	2,200	110	-
E8	German Town - Washington County	Wisconsin Electric Power, Milwaukee, WI.	Gas/Oil	-	213	1979	50	10	-
E9	Pleasant Prairie - Kenosha County	do.	Coal - 2.0 Coal	1 2	580	1980	600	120	Capacity and employment includes 1 & 2.
E10	Lakeside - Milwaukee County	do.	Gas/Oil	-	227	1978	50	20	-
E11	Edge Water - Sheboygan County	Wisconsin Power & Light, Madison, WI.	Coal - 0.8	5	400	1982	530	45	-

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APPENDIX.--ADDRESSES OF EASTERN STATE LIAISON OFFICERS

State	Liaison Officer	Office address and commercial telephone
Alabama.....	James R. Boyle.....	U.S. Bureau of Mines P.O. Box L University, Ala. 35486 (205) 758-0491
Connecticut.....	William R. Barton.....	U.S. Bureau of Mines Post Office and Federal Bldg. Newmarket, N.H. 03857 (603) 659-3101
Delaware.....	Joseph A. Sutton.....	U.S. Bureau of Mines Room 9008 Columbia Plaza Office Bldg. 2401 E Street, N.W. Washington, D.C. 20241 (202) 634-1272
Florida.....	John W. Sweeney.....	U.S. Bureau of Mines Room 204 547 North Monroe Street Tallahassee, Fla. 32301 (904) 222-6218
Georgia.....	James D. Cooper.....	U.S. Bureau of Mines Room 431 19 Hunter Street, S.W. Atlanta, Ga. 30334 (404) 526-6204
Illinois.....	Thomas O. Glover.....	U.S. Bureau of Mines Room 1117 Ridgely Building 504 East Monroe Street Springfield, Ill. 62701 (217) 525-4368
Indiana.....	William S. Miska.....	U.S. Bureau of Mines Room 113 7th and College Streets Bloomington, Ind. 47401 (812) 339-6139
Kentucky.....	William T. Boyd.....	U.S. Bureau of Mines Room 269 John C. Watts Federal Bldg. 330 West Broadway Frankfort, Ky. 40601 (502) 875-4120

State	Liaison Officer	Office address and commercial telephone
Maine.....	Herbert R. Babitzke.....	U.S. Bureau of Mines Federal Bldg. and Post Office 40 Western Avenue Augusta, Minn. 04330 (207) 622-6171, ext. 292
Maryland.....	Joseph A. Sutton.....	SEE DELAWARE
Massachusetts.....	William R. Barton.....	SEE CONNECTICUT
Michigan.....	Edward C. Peterson.....	U.S. Bureau of Mines Room 1121 Commerce Center Building 300 Capitol Street Lansing, Mich. 48933 (517) 372-1910, ext. 681
Minnesota.....	Ronald C. Briggs.....	U.S. Bureau of Mines Room G-23, Federal Building Fort Snelling Twin Cities, Minn. 55111 (612) 725-4535
Mississippi.....	John L. Reuss.....	U.S. Bureau of Mines Room 408, 301 Building 301 North Lamar Street Jackson, Miss. 39202 (601) 969-4208
New Hampshire.....	William R. Barton.....	SEE CONNECTICUT
New Jersey.....	William Kebblish.....	U.S. Bureau of Mines P.O. Box 783 Federal Square Station Harrisburg, Pa. 17108 (717) 782-4474
New York.....	Leonard F. Heising.....	U.S. Bureau of Mines Suite 203 1659 Central Avenue Albany, N.Y. 12205 (518) 869-9536
North Carolina.....	Lawrence E. Shirley.....	U.S. Bureau of Mines P.O. Box 2828 Raleigh, N.C. 27602 (919) 755-4166
Ohio.....	William S. Miska.....	SEE INDIANA

State	Liaison Officer	Office address and commercial telephone
Pennsylvania.....	William Kebblish.....	SEE NEW JERSEY
Rhode Island.....	William R. Barton.....	SEE CONNECTICUT
South Carolina.....	Hewson Lawrence[1].....	U.S. Bureau of Mines 403 Columbia Building Main and Gervais Streets Columbia, S.C. 29201 (803) 765-5561
Tennessee.....	William D. Hardeman.....	U.S. Bureau of Mines 1109 Parkway Towers 404 James Robertson Parkway Nashville, Tenn. 37219 (615) 749-7254
Vermont.....	William R. Barton.....	SEE CONNECTICUT
Virginia.....	Lawrence E. Shirley.....	SEE NORTH CAROLINA
West Virginia.....	James E. Gilley.....	U.S. Bureau of Mines P.O. Box 428 Charleston, W. Va. 25322 (304) 343-6181, ext. 443

[1]Hewson Lawrence replaced Herman W. Sheffer as South Carolina State Liaison Officer on Aug. 1, 1976.

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