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# APPENDIX F

## THE PIES REPORT: A GUIDE

The Project Independence Evaluation (PIE) is a report of the findings of the Project Independence Evaluation (PIE) Commission. The PIE Commission was established by Executive Order on August 12, 1976, to evaluate the progress and the results of the Project Independence program. The PIE Commission was composed of seven members, including the Secretary of Defense, the Secretary of State, the Secretary of Energy, the Secretary of Health, Education and Welfare, the Secretary of Housing and Urban Development, and the Secretary of Labor. The PIE Commission's report is a valuable resource for understanding the progress and the results of the Project Independence program.

The report is divided into the following sections:

- I. Introduction
- II. History and Development
- III. Project Organization **Appendix F**
- IV. Description of the Information
- V. Findings
- VI. Final Summary, Conclusions, and Recommendations

### THE PIES REPORT: A GUIDE



## Appendix F

### THE PIES REPORT: A GUIDE

The Project Independence Evaluation System Report summarizes a portion of the information available from a single execution of the Project Independence Evaluation System (PIES). A detailed evaluation of the full output requires familiarity with the terminology and assumptions of the analysis and the units of measurement of the report. This note provides a guide to the report and some caveats for interpretation. A sample output is attached to illustrate the page references and comments.

The material is presented in the following order:

- I. Label and Title Page
- II. Units and Terminology
- III. Report Organization
- IV. An Overview of Key Information
- V. Full Explanation of the Details
- VI. Final Summary Quantities and Tables

## I. LABEL AND TITLE

The PIES models the state of the energy system on an average day during a particular model year, given a host of assumptions. The labels in the upper right hand corner of each page are intended to make a few of these assumptions explicit and to provide a link to separate documentation.

'85BAU6A' - '85' indicates that the model year is 1985. 'BAU' means Business as Usual supply. Also used are 'ACC' for Accelerated Development, 'LOW' for Pessimistic Development, 'LIM' for Regional Limitation, and 'ELC' for Electrification. '6A' is for internal documentation.

'DB51215' - 'DB' means Base Demand. 'DC' is used for Conservation, and 'DE' is used for Electrification. '1215' is the date the demand model was created. The '5' in 'DB5' is for internal documentation.

'DEC15-1' - 'DEC15' is the date of execution. '-1' is a suffix used to distinguish multiple runs of the same model on the same day.

'\$13' - This is the landed price of crude in New York.

It is entirely possible for the supply specification to include a combination of LOW, BAU, ACC, and LIM assumptions regarding particular activities. A run labeled 'ACC' may include accelerated oil and gas assumptions, together with business as usual coal assumptions, for example. The title page indicates the details of the supply and conversion assumptions under the heading of Task Force Scenarios.

## II. UNITS AND TERMINOLOGY

These are the standard physical units used throughout the body of the report.

Petroleum: Thousands of Barrels per Calendar Day (MB/CD).

Coal: Thousands of Tons per Calendar Day (MT/CD).

Natural Gas: Millions of Standard Cubic Feet per Calendar Day (MMSCF/CD).

Electricity: Millions of Kilowatt-Hours per Calendar Day (MMKWH/CD).

The following price units are used throughout the report.

Petroleum: \$/barrel.

Coal: \$/ton.

Natural Gas: \$/thousand cubic feet.

Electricity: Mills/kilowatt hour.

The following capacity units for facilities are used in this report.

Refineries: Thousands barrels/day.

Utilities,  
Geothermal,  
Nuclear,

Solar: Millions kilowatt-hours/day.

Synthetics: Thousands barrels/day of Btu equivalent oil production.

Shale: Thousands barrels/day.

The utility capacity unit is not standard. The unit is converted to Megawatts by dividing by .024. Thus, on page 43, for example, 133.2/.024 = 5550 Megawatts of New Nuclear Power Plant are forecasted to operate in the Northeast.

The assumed Btu values for all final products are listed in the Raw Data Summary, page 90. The units for the column 'Btu Factor' are millions of Btu's per 10<sup>-3</sup> standard units, or billions of Btu's per standard unit. These factors are used in the preparation of summary tables to permit accumulation across products and sectors.

The following terminology is used throughout the body of the report.

Production: This term refers to the acquisition or extraction of raw materials, specifically crude oil, natural gas, co-products, and coal.

Conversion: This term refers to the processing of materials. Usually, but not always, conversion implies that one material is consumed in the course of creating others.

Demand: This term is reserved for consumption of final products. The consumption of coal in the course of generating electricity, for example, does not constitute a "demand" for coal. The full aggregation of total product consumption is displayed in the summary tables.

Transfer in: This term refers to net physical flow of material into a region.

Activity: This term is approximately synonymous with "quantity." However, the "activity" of producing a barrel of oil may lead to the production of various "quantities" of different types of crudes and associated products.

In a technical sense, all reported prices are marginal prices. Roughly speaking, these are measures of the value of having one additional unit of the relevant material available in the region in question. However, electricity and natural gas prices have been manipulated, as discussed below, to approximate average costs of delivery. These and other special caveats for interpretation of prices are indicated where appropriate.

All prices throughout the PIES report are derived from the shadow prices on the constraints in the linear program. Various adjustments are made to result in the wholesale prices reported for demand regions (page 10 of the report).

The coal price is the industrial price achieved after several handling charges are added, plus the scrubbing and boiler costs.

The electricity price is the average price paid by all consumers: industrial, residential, and commercial.

Natural gas prices are industrial prices, after consumer credits are allowed in the deregulated scenarios. Petroleum prices are the city-gate prices.

The metallurgical coal price does not account for special quality characteristics and, therefore, is not relevant.

Table 1 outlines the markups necessary to obtain delivered sector prices from the wholesale prices in the PIES report. Table 2 applies these markups to the 1985 \$13 reference scenario. For example, the demand region price for the United States for electricity is \$29.73 per MkwH. The commercial sector markup for the nation is \$2.90, resulting in a retail commercial price of \$32.63.

The demand region codes are as follows:

- NE - New England
- MA - Middle Atlantic
- ENC - East North Central
- WNC - West North Central
- SA - South Atlantic
- ESC - East South Central
- WSC - West South Central
- M - Mountain
- P - Pacific

Table 1  
Markups of PIES Report Wholesale Prices  
to Obtain Delivered Sector Prices

Fuel	Residential						Commercial						Industrial						Trans	
	EL \$ MkwH	NG \$ MCF	DF \$ BBL	KS \$ BBL	LG \$ BBL	EL \$ MkwH	NG \$ MCF	DF \$ BBL	RF \$ BBL	KS \$ BBL	LG \$ BBL	EL \$ MkwH	NG \$ BBL	DF \$ BBL	RF \$ BBL	KS \$ BBL	LG \$ BBL	BC \$ TON	GS \$ BBL	
Region																				
NE	3.49	2.09	2.97	2.89	8.16	.43	1.54	2.12	1.75	2.06	1.46	-4.04	0	2.12	1.75	2.06	1.46	-12.00	10.37	
MA	6.46	1.34	3.32	3.23	8.16	5.17	.95	2.61	1.75	2.54	1.80	-8.20	0	2.61	1.75	2.54	1.80	-12.00	12.15	
ENC	3.89	.47	2.54	2.47	5.49	2.69	.19	1.84	1.75	1.79	1.26	-5.22	0	1.84	1.75	1.79	1.26	-12.00	10.37	
WNC	2.72	.49	2.97	2.89	5.49	1.07	.13	1.98	1.75	1.92	1.36	-4.19	0	1.98	1.75	1.92	1.36	-12.00	11.19	
SA	3.00	1.32	3.04	2.95	6.56	1.92	.81	2.19	1.75	2.13	1.51	-3.71	0	2.19	1.75	2.13	1.51	-12.00	10.56	
ESC	2.55	.45	2.82	2.75	6.08	4.58	.11	1.98	1.75	1.92	1.36	-1.88	0	1.98	1.75	1.92	1.36	-12.00	11.19	
WSC	5.48	.75	2.68	2.61	4.96	1.59	.30	1.98	1.75	1.92	1.36	-5.86	0	1.98	1.75	1.92	1.36	-12.00	10.37	
M	4.12	.70	3.25	3.16	5.39	.93	.37	2.40	1.75	2.34	1.65	-5.86	0	2.40	1.75	2.34	1.65	-12.00	10.81	
P	6.53	.68	3.67	3.57	5.59	3.88	.48	2.75	1.75	2.68	1.90	-6.47	0	2.75	1.75	2.68	1.90	-12.00	11.26	
United States	4.18	.83	3.04	2.89	5.73	2.90	.48	2.19	1.75	2.13	1.51	-5.21	0	2.19	1.75	2.13	1.51	-12.00	10.94	



Table 2

Prices: 1985 Reference Scenario, \$13 Imported Oil

Gasoline - \$/BBL		
Price \ Region	PIES	Transportation
NE	\$14.57	\$24.94
MA	14.54	26.69
ENC	14.33	24.70
WNC	14.34	25.53
SA	14.41	24.97
ESC	14.36	25.55
WSC	14.14	24.51
M	14.56	25.37
P	14.54	25.80
United States	14.41	25.35

## Coal - \$/TON

Price \ Region	PIES*	Industrial
NE	\$33.06	\$21.06
MA	30.10	18.10
ENC	27.44	15.44
WNC	23.73	11.73
SA	30.31	18.31
ESC	27.91	15.91
WSC	24.63	12.63
M	14.46	2.46
P	24.26	12.26
United States	27.82	15.82

\*The wholesale PIES price includes \$12.00 scrubbing costs, which are eliminated in the delivered industrial price.

Table 2 (Cont.)

Prices: 1985 Reference Scenario, \$13 Imported Oil

Electricity - \$/M Kwh				
Price \ Region	PIES	Residential	Commercial	Industrial
NE	\$ 33.21	\$ 36.70	\$ 33.64	\$ 29.17
MA	33.43	39.89	38.60	25.23
ENC	29.79	33.68	32.48	24.57
WNC	28.91	31.63	29.98	24.72
SA	29.77	32.77	31.69	26.06
ESC	26.89	29.44	31.47	25.01
WSC	31.21	36.69	32.80	25.35
M	29.26	33.38	30.19	23.40
P	25.11	31.64	28.99	18.64
United States	29.73	33.91	32.63	24.52

## Natural Gas - \$/MCF

Price \ Region	PIES	Residential	Commercial	Industrial
NE	\$2.19	\$4.28	\$3.73	\$2.19
MA	2.19	3.53	3.14	2.19
ENC	2.11	2.58	2.30	2.11
WNC	2.00	2.49	2.13	2.00
SA	1.99	3.31	2.80	1.99
ESC	1.96	2.41	2.07	1.96
WSC	1.94	2.69	2.24	1.94
M	1.98	2.68	2.35	1.98
P	2.11	2.79	2.49	2.11
United States	2.03	2.86	2.51	2.03

Table 2 (Cont.)

Prices: 1985 Reference Scenario, \$13 Imported Oil

Distillate - \$/BBL				
Price	PIES	Residential	Commercial	Industrial
Region				
NE	\$14.50	\$17.47	\$16.62	\$16.62
MA	14.47	17.79	17.08	17.08
ENC	14.26	16.80	16.10	16.10
WNC	14.15	17.12	16.13	16.13
SA	14.34	17.38	16.53	16.53
ESC	14.29	17.11	16.27	16.27
WSC	14.07	16.75	16.05	16.05
M	13.92	17.17	16.32	16.32
P	13.36	17.03	16.11	16.11
United States	14.16	17.20	16.35	16.35

Residual - \$/BBL

Price	PIES	Residential	Commercial	Industrial
Region				
NE	\$14.45		\$16.20	\$16.20
MA	14.45		16.20	16.20
ENC	14.05		15.80	15.80
WNC	13.41		15.16	15.16
SA	14.23		15.98	15.98
ESC	14.04		15.79	15.79
WSC	13.97		15.72	15.72
M	12.99		14.74	14.74
P	12.66		14.41	14.41
United States	14.15		15.90	15.90

Table 2 (Cont.)

Prices: 1985 Reference Scenario, \$13 Imported Oil

Other Refined Petroleum (LPG) - \$/BBL				
Price	PIES	Residential	Commercial	Industrial
Region				
NE	\$16.39	\$24.55	\$17.85	\$17.85
MA	16.39	24.55	18.19	18.19
ENC	16.19	21.68	17.45	17.45
WNC	16.13	21.62	17.49	17.49
SA	16.33	22.89	17.84	17.84
ESC	16.29	22.37	17.65	17.65
WSC	16.07	21.03	17.43	17.43
M	15.84	21.23	17.49	17.49
P	15.29	20.88	17.19	17.19
United States	16.12	21.85	17.63	17.63

Other Refined Petroleum (Kerosene) - \$/BBL

Price	PIES	Residential	Commercial	Industrial
Region				
NE	\$18.50	\$21.39	\$20.56	\$20.56
MA	18.29	21.52	20.83	20.83
ENC	18.72	21.19	20.51	20.51
WNC	20.08	22.97	22.00	22.00
SA	20.91	23.86	23.04	23.04
ESC	21.36	24.11	23.28	23.28
WSC	20.58	23.19	22.50	22.50
M	19.05	22.21	21.39	21.39
P	18.41	21.98	21.09	21.09
United States	19.75	22.64	21.88	21.88



### III. REPORT ORGANIZATION

The report is in two parts. The first, which shall be referred to as the "body," consists of the first 90 pages and reports energy activity on a calendar day basis. The second part is the Executive Summary which aggregates across fuels and sectors on an annual basis.

The body is composed of the following reports:

1. Raw Material Acquisition. This report summarizes domestic production and imports of raw materials including coal, crude oil, natural gas, and co-products.
2. Material Balance. This report summarizes the disposition of all materials including intermediate and final products. The report is organized by region type.
3. Primary Material Balance. This report summarizes the disposition of selected materials. The report is organized by material.
4. Summary of Conversion Yields, by Region. This report summarizes material conversion by region type.
5. Conversion Activity Summary. This report summarizes material conversion by task force, or nature of the conversion.
6. Demand Area Requirements. This report summarizes final product consumption by demand region.
7. Product Final Demand. This report summarizes final product consumption by product.
8. Utility Fossil Fuel Consumption. This report summarizes utility fuel consumption by fuel.
9. Table of Primary Products Through System. This report summarizes transportation activities by material and mode of transportation. The nodes are not exact but are intended to indicate approximate cost structures.
10. Resource Requirements. This report summarizes national energy sector requirements.
11. Raw Data Summary. This report summarizes national final product demand by sector and disaggregated fuel type.

The Executive Summary is composed of Table 1, which reports consumption in physical units, and Table 2, which reports consumption in trillions of Btu's.

### IV. AN OVERVIEW OF KEY INFORMATION

In each output, there are certain items which are referred to more frequently than others. This section indicates what and where the key variables are.

- Page 1.01 - Imports. (E.g., 5862.4 MB/CD Petroleum, 3498.7 MMSCF/CD Natural Gas.)
- Page 2.09 - Total domestic nonassociated natural gas production. (E.g., 47549.4 MMSCF/CD.)
- Page 3.09 - Total domestic primary crude production. (E.g., 11981.3 MB/CD.)
- Page 4.15 - Total domestic coal production. (E.g., 2847.5 MT/CD.)
- Page 5 - Aggregate domestic oil and gas production including co-products. (E.g., 13863.0 MB/CD oil, 61005.5 MMSCF/CD gas.)
- Page 10 - Average (quantity weighted) prices of final products in demand regions. (E.g., \$27.82/ton for steam coal.)
- Page 91, 92 - Executive Data Summary of yearly consumption by sector and fuel type.

### V. FULL EXPLANATION OF THE DETAILS

1. Raw Materials Acquisition Report. The reported price in this is the marginal price of the primary yield. For example, on page 2.01, 2.264 is the value of an additional MMSCF of natural gas in the Pacific gas region.

#### Imports

Page 1.01. Imports of petroleum and natural gas are summarized in this section. Coal exports are reported elsewhere.

Canadian imports of natural gas (IGF111) are assumed to be sold at the market clearing price in fixed contracted quantities. The label IGF011 refers to liquid natural gas from Algeria. A minimum contract quantity is assumed. Prices for natural gas imports are not reported here.

Total petroleum and natural gas imports are summarized below.

## Natural Gas

Pages 2.01-2.09. Natural gas production also produces gas liquid co-products, called Butane, Gas Liquids, and Condensates. The amounts of each produced are given in the column 'QUANTITY.'

PIES gas regions are described under 'LOCATION.' The symbol 'G2' adjacent to the label 'NGG311' on page 2.01 is the National Petroleum Council gas region code.

On page 2.08, the label 'TG...' refers to Tight Gas, or Fractured Gas production.

The total on page 2.09 is the total domestic nonassociated production.

## Oil

Pages 3.01-3.09. Oil production also results in the co-products Butane, Gas Liquids, and Associated Gas. One barrel of crude in a region may be composed of an average of different crude types. For example, on page 3.03, the activity 'WM0433' leads to the production of .1 MB of West Texas Mix and .3 MB of Wyoming Mix for each .4 MB of oil.

The middle two characters of the activity name are the oil sources. As with gas, the NPC labels for oil regions are included.

Starting on the bottom of page 3.08 with 'Alaskan North Slope' and continuing through page 3.09 are the nontraditional oil sources: AN and AP, the North Slope; N1 and N4, the Naval Petroleum Reserves; and H2, H3, and H5, heavy hydrocarbons. One label which does not appear in this particular report is 'TS...', Tar Sands. The material label associated with tar sands production is 'Aggregate Foreign Oil,' a modeling simplification not intended to indicate the source of tar sands.

Shale Oil production is not included in this section and the total of 11981.3 MB/CD on page 3.09 does not include co-products or shale.

## Coal

Pages 4.01-4.15. All steam coal is categorized by Btu and sulfur content. An additional category is metallurgical coal.

The character 'S' in the label CHC1S1 on page 4.01 indicates that the coal is surface mined. 'D' signifies underground mining.

The treatment of coal in PIES varies by sulfur content. All steam coal consumed in demand regions must be clean, that is, either low-sulfur coal must be burned or high-sulfur coal scrubbed at a cost of \$12 per ton. Similarly, in utility regions, all new coal-fired utilities must scrub high-sulfur coal at the plant or burn low-sulfur coal. Some existing facilities are allowed to burn high-sulfur coal, either because they have already installed scrubbers, or because they are not subject to environmental regulation.

In addition to scrubbing costs, a boiler cost for very low and low Btu coal is imposed. Demand regions are not permitted to burn very low Btu coal.

The Btu categories of coal are:

High	24	Million Btu/Ton
Medium	22	Million Btu/Ton
Low	19	Million Btu/Ton
Very Low	14	Million Btu/Ton

## Co-Products

Page 5. This report summarizes co-product production and combines these totals with the previously reported primary production figures into aggregate oil and natural gas production figures. Butane (BU), gas liquids (GL), and condensates (CO) are petroleum co-products with units of MB/CD.

2. Material Balance Report. The reported average price is the quantity weighted average of marginal prices in the regions.

## Total All Foreign Crude Locations

Page 6. The only information provided in this section which is not available on page 1.01 is the average domestic marginal demand price for imported products.

## Total All Coal Regions

Page 7. The 449.6 MMSCF of natural gas converted is Syngas. Consumed in the process were 37.6 MT of low Btu, high-sulfur coal. Syncrude is labeled 'Aggregate Foreign Oil.'

## Total All Refining Districts

Page 8. Refinery gain is the negative of the algebraic sum of the transfer-in entries. The discrepancy for conversion and shipment of other refined products is caused by a reporting anomaly for the blending of butane. The transfer-in figure is correct.

## Total All Utility Regions

Page 9. The average price of \$34.39 for electricity is the quantity-weighted average of net (after transmission loss) marginal generation costs.



### Total All Demand Regions

Page 10. The prices in this report are intended to be:

Coal: Industrial

Petroleum: City-gate

Natural Gas: Industrial

Electricity: Average price paid by all consumers (Industrial, Residential, and Commercial).

The metallurgical coal price does not account for special quality characteristics and, therefore, is not relevant. The prices have been discussed more fully in section II.

### Total All Domestic Crude Oil

Page 11. This page is a summary of the production of domestic crude oil types and oil co-products.

### Total All Natural Gas Supplies

Page 12. This page is a summary of the production of natural gas and gas co-products.

### Total All Shale Regions

Page 13. This page is a summary of shale oil production.

### Total All USA/ALL Centers

Page 14. There are two 'Coal, All High-Sulfur' entries. The 408.1 MT is consumed in demand regions--this coal should be labeled "cleaned." The prices are a mixture of prices at different stages of production and, therefore, have no economic meaning.

3. Primary Material Balance Report. This reports all activities affecting selected materials. The report is arranged by materials with summations of net regional activity.

### Coal

Pages 15-26. All coal consumed in PIES is internally converted to equivalent Btu's of 22.5 MM Btu/T coal. Thus, 1 ton of very low Btu coal (14 MM Btu/T) is equivalent to .62 tons of standard coal (14/22.5).

The standard coal types are labeled:

Page 15, 'CB' - "Cleaned" coal consumed in demand regions.

Page 16, 'CA' - High-sulfur coal consumed in synthetic or utility regions.

Page 17, 'CL' - Low-sulfur coal consumed in utility regions.

Physical, not standard, coal is transported through a transshipment network. The code 'TRANSFER' in column 'TYPE' dictates transshipment. The symbol 'T' in the left-most column (e.g., page 18) indicates rail transshipment; 'W' indicates barge transshipment cost structures.

The negative demand entries (-33, on page 16; -186 on page 26) are coal exports.

### Petroleum Products

Pages 27-31. These pages are detailed summaries of activities for petroleum products.

### Natural Gas

Page 32. This page is a detailed summary of activities for natural gas.

### Electricity

Pages 33-36. The prices on page 33 for utility regions are marginal net generation costs. The prices for demand regions are the average generation costs. Consumers are assumed to be charged the average costs.

4. Summary of Conversion Yields, By Region. Pages 37-42. The categories of regions included are Refining (pages 37-38), Utility (pages 39-41), and Shale (page 42).

This report summarizes yields by region.

5. Conversion Activity Summary. Pages 43-50. This report summarizes the activity of units of capacity. Capacity can be built or operated in various modes. Refineries, for example, can produce a variety of yields; utilities can be operated in base, intermediate, or peak modes.

The prices reported reflect the relative attractiveness of the capacity category. A reported price of .001 indicates that the activity is on the margin and that additional capacity is available but not used. Thus, on page 43, for example, the build limit for new nuclear plants in the Pacific region is not binding.

### Nuclear

Page 43. "New" refers to plants operating after January 1, 1975.



## Utilities

Pages 44-46. There are three separate utility reports, New Generation (UT1, page 44), Existing Generation (UUI, page 45), and Miscellaneous (UVI, page 46).

"New" refers to plants operational after January 1, 1977. "Existing" refers to pre-1977 facilities. Those plants built between 1975 and 1977 are treated as existing plants in that capital cost is considered to be "sunk" and therefore irrelevant to the build decision. Activity for this category of plants is reported at the bottom of page 45 (e.g., 'OIL-FED STM BUILD (75-77)').

The codes 'BS,' 'MD,' and 'PK' refer to Base, Intermediate, and Peak Load plants, respectively. The code 'OP' means Operate.

New coal-fired plants are required to either burn low-sulfur coal or install a scrubber. The activity 'COAL W/O SCRUB BUILD' refers to the construction of the generation facility. The addition of a scrubber is a separate activity. Some existing coal-fired plants burn high-sulfur coal ('COAL ACCPTBL') with no desulfurization beyond current practice; remaining existing plants must either burn low-sulfur coal or install scrubbers to burn high-sulfur coal.

The codes 'SIMPLE' and 'COMBINED' on pages 44 and 45 refer to simple and combined cycle gas turbine plants.

Miscellaneous information on page 46 which is not directly available elsewhere includes:

- 'Transmission New' - The quantity is net additions to generation capacity after January 1, 1975 including Nuclear, Geothermal, and Solar.
- 'Transmission Old' - The quantity is net January 1, 1975 generation capacity.
- 'Convert Electricity' - The quantity is pretransmission loss generation in MMkWh.
- 'Oil to Coal Conversion' - Existing oil-fired steam turbines are converted to existing coal-fired steam turbines. Coal must be low sulfur or scrubbed.

## Synthetics

Page 47. 'Fuel Gas' refers to the process of generating electricity from low Btu synthetic gas. The units are thousands of barrels of oil of equivalent Btu content.

## Geothermal-Solar

Page 48. These conversion activities are used for modeling convenience. No input material is consumed.

## Shale

Page 49. These conversion activities are used for modeling convenience. No input material is consumed.

## Refineries

Page 50. Operating modes for both existing and new refineries are included. The term 'Aggregate Capacity' refers to the sum of existing and new capacity.

6. Demand Area Requirements. Pages 51-59. The marginal prices and quantities consumed of each of the primary products are reported by demand region. The prices are the same wholesale prices described for the 'Total All Demand Regions' report on page 10. The markups in Table 1 can be used to calculate delivered sector prices by region.

7. Product Final Demand. Pages 60-67. The marginal prices and quantities consumed in each region are reported for each of the primary products. The prices are the wholesale prices described for the demand regions report on page 10.

The factors used in calculating the Btu content of the quantities are summarized on page 90.

8. Utility Fossil Fuel Consumption. Pages 68-72. This summarizes the fuel consumption in each utility region, organized by fuel type.

9. Table of Primary Products Through System. Pages 73-88. This table reports the amount of each product shipped between two regions, organized by mode of transportation.

The numbers in the column 'MATERIAL' are the transportation costs per standard unit of material.

The term 'LOCAL' refers to intraregional transfers.

10. Resource Requirements. Page 89. Only drilling feet and internal investment calculations are included in this abbreviated section.

11. Raw Data Summary. Page 90. This reports the final quantity demands broken down by products and sector for the nation, along with the Btu factors and Btu content for each product. The meanings of the codes are as follows:

GAST	Gasoline, Transportation
NGH	Natural Gas, Household
NGI	Natural Gas, Industrial
ELCH	Electricity, Household
ELCI	Electricity, Industrial
ANTH	Anthracite, Household
ANTI	Anthracite, Industrial
BITH	Bituminous, Household
BITH	Bituminous, Industrial
BITT	Bituminous, Transportation
LRGI	Liquified Refinery Gas, Industrial
LGH	Liquified Gas, Household
LGI	Liquified Gas, Industrial
LGT	Liquified Gas, Transportation
LPGI	Liquified Petroleum Gas, Industrial
JFT	Jet Fuel, Transportation
KH	Kerosene, Household
KI	Kerosene, Industrial
DFLH	Distillate Fuel, Household
DFLI	Distillate Fuel, Industrial
DFLT	Distillate Fuel, Transportation
RFLH	Residual Fuel, Household
RFLI	Residual Fuel, Industrial
RFLT	Residual Fuel, Transportation
SGI	Still Gas, Industrial
RMSG	Raw Material, Still Gas
PCI	Petroleum Coke, Industrial
RMPC	Raw Material, Petroleum Coke
NAPI	Naphtha, Industrial
SNAP	Special Naphthas
ASPH	Asphalt and Road Oil
LWI	Lubricants and Waxes, Industrial
LWT	Lubricants and Waxes, Transportation
NGT	Natural Gas, Transportation
NGCB	Natural Gas, Carbon Black
NGOC	Natural Gas, Other Chemicals
ELCT	Electricity, Transportation
LGMS	Liquified Gas, Miscellaneous
DFMS	Distillate Fuel, Miscellaneous
RFMS	Residual Fuel, Miscellaneous
RMMS	Raw Material, Miscellaneous
INMC	Metallurgical Coal

Following these is a summary list of the Btu factors used in calculating the Executive Summary. The coal factors--CB, CAU, CLU, CAS--are quantity-weighted averages of the Btu factors for all coal types. The coal codes are, respectively, scrubbed or low-sulfur coal for demand regions, high-sulfur utility coal, low-sulfur utility coal, and high-sulfur coal for synthetics.

Executive Data Summary. Pages 91-92. This a summary of total energy consumption for the model year by fuel type and sector. Table 1 is in standard physical units and table 2 in Btu's. Note that exports are not included.

The numbers in the 'Utility Electricity Consumed' column indicate electricity consumption after transmission loss.

In Table 2, the Nuclear Power and Geo-Hydro-Solar Power numbers are trillions of Btu's of fossil fuel which would be required for equivalent generation.

The negative values in the synthetic sector under Natural Gas, and sometimes under Petroleum, refer to the amounts of syngas and syncrude produced.

## VI. FINAL QUANTITIES

Following the Executive Data Summary two sets of tables summarize the final quantities demanded and the prices.

In the first table, the same row codes for fuel and sector are used as in the Raw Data Summary. The quantities demanded are presented for each demand region and for the nation in standard units per calendar day. The first nine columns refer to demand regions one through nine and the tenth column to the Nation.

In the second table, final prices are given for each demand region. The fuel codes translate as follows:

GSTR	---	Gasoline, Transportation
NGHC	---	Natural Gas, Household & Commercial
NGIN	---	Natural Gas, Industrial
ELHC	---	Electricity, Household & Commercial
ELIN	---	Electricity, Industrial
BCIN	---	Bituminous Coal, Industrial
DFAS	---	Distillate Fuel, All Sectors
RFAS	---	Residual Fuel, All Sectors
KSAS	---	Kerosene, All Sectors
LGAS	---	Liquified Gas, All Sectors
MCIN	---	Metallurgical Coal, Industrial

The second set of tables reports the percentage change of the quantities and prices from the base year of 1973.



F. E. A. PIES MODEL REPORT

FOR YEAR 1985

TASK FORCE SCENARIOS

RA1	REFINERIES BAU
RB1	REFINERIES BAU
RC1	REFINERIES BAU
RD1	REFINERIES BAU
RE1	REFINERIES BAU
RF1	REFINERIES BAU
RG1	REFINERIES BAU
IM1	IMPORTS BAU
GS1	GAS BAU
NU1	NUCLEAR BAU
UL1	OIL BAU
CL1	COAL BAU
UT1	UTILITIES BAU
UU1	UTILITIES BAU
UV1	UTILITIES BAU
SY1	SYNTHETICS BAU
GE1	GEO-SOLAR BAU
SM1	SHALE BAU

FOR SOLUTION

FOR SOLUTION	1985 REFERENCE CASE
FOR SOLUTION	MODEL..... 85BAU6A
FOR SOLUTION	DEMAND SCENARIO..... DB51215
FOR SOLUTION	DATE & REVISION..... DEC15=1
FOR SOLUTION	IMPORTS..... \$13

RAW MATERIAL ACQUISITION REPORT

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DB51215
DATE & REVISION.....	DEC15=1
IMPORTS.....	\$13

TASK FORCE - IM1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
OLF011 F	OTHER FOREIGN LOCATIONS	OIL,AGGREGATE FOREIGN (MB/CD)	4666.8	4666.8	13,000
DTF011 F	OTHER FOREIGN LOCATIONS		95.6		16,393
		GASOLINE,ALL GRADES(MB/CD)		4.8	
		DISTILLATE,ALL GRADES(MB/CD)		4.8	
		RESIDUAL,ALL GRADES(MB/CD)		4.8	
		OTHER REFINED PETROLEUM(MB/CD)		81.3	
IGFD11 F	OTHER FOREIGN LOCATIONS	NATURAL GAS(MMSCF/CD)	1096.0	1096.0	
IGF111 F	CANADA ALL LOCATIONS	NATURAL GAS(MMSCF/CD)	2402.7	2402.7	
RSE211 F	CARIBBEAN/C.A.M.		1100.0		14,445
		GASOLINE,ALL GRADES(MB/CD)		44.0	
		DISTILLATE,ALL GRADES(MB/CD)		121.0	
		RESIDUAL,ALL GRADES(MB/CD)		770.0	
		OTHER REFINED PETROLEUM(MB/CD)		165.0	

IMPORTED PETROLEUM TOTALS 5862.4  
IMPORTED NATURAL GAS TOTALS 3498.7

NOTE- THE PRICES REPRESENT THE VALUE OF AN ADDITIONAL UNIT OF IMPURT OR PRODUCTION MODE.  
THE MATERIAL NAMES IDENTIFY THE PRIMARY PRODUCTS AND CO-PRODUCTS FOR THAT MODE.

RAW MATERIAL ACQUISITION REPORT

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DB51215
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TASK FORCE - GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NGG311 G 2	PACIFIC COAST STATES	BUTANE/PROPANE(MB/CD)	146.9	.2	2,264
		GAS LIQUIDS(MB/CD)		.1	
		CONDENSATE(MB/CD)		.1	
		NATURAL GAS(MMSCF/CD)		146.9	
NGG322 G 2	PACIFIC COAST STATES	NATURAL GAS(MMSCF/CD)	6.1	6.1	2,264
NGG333 G 2	PACIFIC COAST STATES	BUTANE/PROPANE(MB/CD)	14.3	.1	2,264
		NATURAL GAS(MMSCF/CD)		14.3	
NGG344 G 2	PACIFIC COAST STATES	NATURAL GAS(MMSCF/CD)	2.0	2.0	2,264
NGG366 G 2	PACIFIC COAST STATES	BUTANE/PROPANE(MB/CD)	25.2	.1	2,264
		NATURAL GAS(MMSCF/CD)		25.2	
NGG422 G 2A	PACIFIC OCEAN	NATURAL GAS(MMSCF/CD)	16.4	16.4	2,264
NGG433 G 2A	PACIFIC OCEAN	BUTANE/PROPANE(MB/CD)	98.6	.1	2,264
		GAS LIQUIDS(MB/CD)		.1	
		CONDENSATE(MB/CD)		.1	
		NATURAL GAS(MMSCF/CD)		98.6	
NGG444 G 2A	PACIFIC OCEAN	NATURAL GAS(MMSCF/CD)	10.0	10.0	2,264
NGG455 G 2A	PACIFIC OCEAN	NATURAL GAS(MMSCF/CD)	7.9	7.9	2,264

RAW MATERIAL ACQUISITION REPORT

1985 REFERENCE CASE

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TASK FORCE - GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NGG466 G 2A	PACIFIC OCEAN	NATURAL GAS(MMSCF/CD)	5.0	5.0	2,264
NGG511 G 3	WESTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	869.4	16.8	2,159
		GAS LIQUIDS(MB/CD)		4.3	
		CONDENSATE(MB/CD)		7.1	
		NATURAL GAS(MMSCF/CD)		869.4	
NGG522 G 3	WESTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	260.5	4.0	2,159
		GAS LIQUIDS(MB/CD)		1.3	
		CONDENSATE(MB/CD)		2.2	
		NATURAL GAS(MMSCF/CD)		260.5	
NGG533 G 3	WESTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	27.2	.5	2,159
		GAS LIQUIDS(MB/CD)		.2	
		CONDENSATE(MB/CD)		.2	
		NATURAL GAS(MMSCF/CD)		27.2	
NGG544 G 3	WESTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	67.6	1.0	2,159
		GAS LIQUIDS(MB/CD)		.3	
		CONDENSATE(MB/CD)		.6	
		NATURAL GAS(MMSCF/CD)		67.6	
NGG555 G 3	WESTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	47.4	.7	2,159
		GAS LIQUIDS(MB/CD)		.3	
		CONDENSATE(MB/CD)		.4	
		NATURAL GAS(MMSCF/CD)		47.4	

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TASK FORCE = GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NKG611 G 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	909.5	0.9	2,194
		GAS LIQUIDS(MB/CD)		2.3	
		CONDENSATE(MB/CD)		3.5	
		NATURAL GAS(MMSCF/CD)		909.5	
NKG622 G 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	779.2	4.6	2,194
		GAS LIQUIDS(MB/CD)		1.6	
		CONDENSATE(MB/CD)		2.5	
		NATURAL GAS(MMSCF/CD)		779.2	
NKG633 G 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	23.7	.1	2,194
		CONDENSATE(MB/CD)		.1	
		NATURAL GAS(MMSCF/CD)		23.7	
NKG644 G 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	46.3	.2	2,194
		GAS LIQUIDS(MB/CD)		.1	
		CONDENSATE(MB/CD)		.1	
		NATURAL GAS(MMSCF/CD)		46.3	
NKG655 G 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	53.0	.3	2,194
		GAS LIQUIDS(MB/CD)		.1	
		CONDENSATE(MB/CD)		.2	
		NATURAL GAS(MMSCF/CD)		53.0	
NKG666 G 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD)	36.6	.2	2,194
		GAS LIQUIDS(MB/CD)		.1	
		CONDENSATE(MB/CD)		.1	
		NATURAL GAS(MMSCF/CD)		36.6	

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TASK FORCE = GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NKG711 G 5	WEST TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD)	2312.2	51.9	2,070
		GAS LIQUIDS(MB/CD)		8.8	
		CONDENSATE(MB/CD)		15.0	
		NATURAL GAS(MMSCF/CD)		2312.2	
NKG722 G 5	WEST TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD)	1761.3	15.7	2,070
		GAS LIQUIDS(MB/CD)		4.8	
		CONDENSATE(MB/CD)		8.3	
		NATURAL GAS(MMSCF/CD)		1761.3	
NKG733 G 5	WEST TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD)	99.5	.9	2,070
		GAS LIQUIDS(MB/CD)		.3	
		CONDENSATE(MB/CD)		.5	
		NATURAL GAS(MMSCF/CD)		99.5	
NKG744 G 5	WEST TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD)	312.6	3.0	2,070
		GAS LIQUIDS(MB/CD)		.9	
		CONDENSATE(MB/CD)		1.6	
		NATURAL GAS(MMSCF/CD)		312.6	
NKG755 G 5	WEST TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD)	545.4	5.5	2,070
		GAS LIQUIDS(MB/CD)		1.8	
		CONDENSATE(MB/CD)		2.9	
		NATURAL GAS(MMSCF/CD)		545.4	
NKG811 G 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD)	10490.2	196.2	2,165
		GAS LIQUIDS(MB/CD)		83.9	

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 1985 REFERENCE CASE  
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TASK FORCE = GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NKG822 G 6	WESTERN GULF BASIN	CONDENSATE(MB/CD)	2859.3	90.2	2,165
		NATURAL GAS(MMSCF/CD)		10490.2	
NKG833 G 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD)	471.6	36.3	2,165
		GAS LIQUIDS(MB/CD)		22.0	
		CONDENSATE(MB/CD)		23.7	
		NATURAL GAS(MMSCF/CD)		2859.3	
NKG844 G 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD)	471.6	6.0	2,165
		GAS LIQUIDS(MB/CD)		3.7	
		CONDENSATE(MB/CD)		4.0	
		NATURAL GAS(MMSCF/CD)		471.6	
NKG855 G 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD)	795.0	10.1	2,165
		GAS LIQUIDS(MB/CD)		6.1	
		CONDENSATE(MB/CD)		6.5	
		NATURAL GAS(MMSCF/CD)		795.0	
NKG866 G 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD)	560.9	7.1	2,165
		GAS LIQUIDS(MB/CD)		4.4	
		CONDENSATE(MB/CD)		4.7	
		NATURAL GAS(MMSCF/CD)		560.9	
NKG866 G 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD)	477.9	6.1	2,165
		GAS LIQUIDS(MB/CD)		3.7	
		CONDENSATE(MB/CD)		4.0	
		NATURAL GAS(MMSCF/CD)		477.9	
NKG911 G 6A	GULF OF MEXICO		12296.3	2,095	

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TASK FORCE = GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NKG944 G 6A	GULF OF MEXICO	BUTANE/PROPANE(MB/CD)	3.8	148.8	2,095
		GAS LIQUIDS(MB/CD)		81.2	
		CONDENSATE(MB/CD)		87.3	
		NATURAL GAS(MMSCF/CD)		12296.3	
NKG11 G 7	MIDCONTINENT	BUTANE/PROPANE(MB/CD)	5962.0	.1	2,195
		CONDENSATE(MB/CD)		.1	
		NATURAL GAS(MMSCF/CD)		3.8	
NKG22 G 7	MIDCONTINENT	BUTANE/PROPANE(MB/CD)	2183.2	82.9	2,195
		GAS LIQUIDS(MB/CD)		24.4	
		CONDENSATE(MB/CD)		39.9	
		NATURAL GAS(MMSCF/CD)		5962.0	
NKG33 G 7	MIDCONTINENT	BUTANE/PROPANE(MB/CD)	191.4	26.9	2,195
		GAS LIQUIDS(MB/CD)		8.7	
		CONDENSATE(MB/CD)		14.4	
		NATURAL GAS(MMSCF/CD)		2183.2	
NKG44 G 7	MIDCONTINENT	BUTANE/PROPANE(MB/CD)	191.4	2.4	2,195
		GAS LIQUIDS(MB/CD)		.8	
		CONDENSATE(MB/CD)		1.3	
		NATURAL GAS(MMSCF/CD)		191.4	
NKG44 G 7	MIDCONTINENT	BUTANE/PROPANE(MB/CD)	305.6	3.7	2,195
		GAS LIQUIDS(MB/CD)		1.3	
		CONDENSATE(MB/CD)		2.1	
		NATURAL GAS(MMSCF/CD)		305.6	

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 1985 REFERENCE CASE  
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TASK FORCE = GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NCGA55 G 7	MIDCONTINENT	BUTANE/PROPANE (MB/CD)	175.1	2.2	2,195
		GAS LIQUIDS (MB/CD)		.7	
		CONDENSATE (MB/CD)		1.1	
		NATURAL GAS (MMSCF/CD)		175.1	
NCGA66 G 7	MIDCONTINENT	BUTANE/PROPANE (MB/CD)	190.0	2.3	2,195
		GAS LIQUIDS (MB/CD)		.8	
		CONDENSATE (MB/CD)		1.3	
		NATURAL GAS (MMSCF/CD)		190.0	
NCGB11 G 8-9	MICH. BASIN - E. INTERIOR	BUTANE/PROPANE (MB/CD)	89.3	.9	2,307
		GAS LIQUIDS (MB/CD)		.3	
		CONDENSATE (MB/CD)		.4	
		NATURAL GAS (MMSCF/CD)		89.3	
NCGB04 G 8-9	MICH. BASIN - E. INTERIOR	BUTANE/PROPANE (MB/CD)	37.8	.2	2,307
		GAS LIQUIDS (MB/CD)		.2	
		CONDENSATE (MB/CD)		.1	
		NATURAL GAS (MMSCF/CD)		37.8	
NCGC11 G 10	APPALACHIANS	BUTANE/PROPANE (MB/CD)	354.2	8.1	2,342
		GAS LIQUIDS (MB/CD)		1.1	
		CONDENSATE (MB/CD)		3.3	
		NATURAL GAS (MMSCF/CD)		354.2	
NCGC22 G 10	APPALACHIANS	BUTANE/PROPANE (MB/CD)	101.9	2.1	2,342
		GAS LIQUIDS (MB/CD)		.4	
		CONDENSATE (MB/CD)		1.0	

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 1985 REFERENCE CASE  
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TASK FORCE = GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
NCGC33 G 10	APPALACHIANS	NATURAL GAS (MMSCF/CD)	132.0	101.9	2,342
		BUTANE/PROPANE (MB/CD)		2.7	
		GAS LIQUIDS (MB/CD)		.4	
		CONDENSATE (MB/CD)		1.3	
		NATURAL GAS (MMSCF/CD)		132.0	
NCGC44 G 10	APPALACHIANS	BUTANE/PROPANE (MB/CD)	68.5	1.4	2,342
		GAS LIQUIDS (MB/CD)		.2	
		CONDENSATE (MB/CD)		.7	
		NATURAL GAS (MMSCF/CD)		68.5	
NCGC55 G 10	APPALACHIANS	BUTANE/PROPANE (MB/CD)	39.5	.9	2,342
		GAS LIQUIDS (MB/CD)		.2	
		CONDENSATE (MB/CD)		.4	
		NATURAL GAS (MMSCF/CD)		39.5	
NCGC66 G 10	APPALACHIANS	BUTANE/PROPANE (MB/CD)	25.2	.5	2,342
		GAS LIQUIDS (MB/CD)		.1	
		CONDENSATE (MB/CD)		.2	
		NATURAL GAS (MMSCF/CD)		25.2	
TGG511 G 3	WESTERN ROCKY MOUNTAINS	NATURAL GAS (MMSCF/CD)	178.1	178.1	
TGG512 G 3	WESTERN ROCKY MOUNTAINS	NATURAL GAS (MMSCF/CD)	117.8	117.8	
TGG611 G 4	EASTERN ROCKY MOUNTAINS	NATURAL GAS (MMSCF/CD)	164.4	164.4	

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 1985 REFERENCE CASE  
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 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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TASK FORCE = DL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
WCU223 U 2	PACIFIC COAST STATES	BUTANE/PROPANE (MB/CD)	.0	3.1	11,904
		GAS LIQUIDS (MB/CD)		1.5	
		WEST COAST BLEND (MB/CD)		311.2	
		NATURAL GAS (MMSCF/CD)		139.3	
WCU311 U 2A	PACIFIC OCEAN (EX ALASKA)	WEST COAST BLEND (MB/CD)	80.4	.0	11,904
		BUTANE/PROPANE (MB/CD)		1.4	
		GAS LIQUIDS (MB/CD)		1.1	
		PACIFIC OFFSHORE (MB/CD)		80.4	
		NATURAL GAS (MMSCF/CD)		51.9	
WCU312 U 2A	PACIFIC OCEAN (EX ALASKA)	PACIFIC OFFSHORE (MB/CD)	.1	.1	11,904
WCU313 U 2A	PACIFIC OCEAN (EX ALASKA)	PACIFIC OFFSHORE (MB/CD)	1.2	1.2	11,904
		NATURAL GAS (MMSCF/CD)		.6	
WCU314 U 2A	PACIFIC OCEAN (EX ALASKA)	PACIFIC OFFSHORE (MB/CD)	1.0	1.0	11,904
		NATURAL GAS (MMSCF/CD)		.9	
WCU322 U 2A	PACIFIC OCEAN (EX ALASKA)	BUTANE/PROPANE (MB/CD)	403.3	6.8	11,904
		GAS LIQUIDS (MB/CD)		5.1	
		PACIFIC OFFSHORE (MB/CD)		403.3	
		NATURAL GAS (MMSCF/CD)		263.4	
WCU333 U 2A	PACIFIC OCEAN (EX ALASKA)	BUTANE/PROPANE (MB/CD)	154.9	2.9	11,904
		GAS LIQUIDS (MB/CD)		2.1	

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 1985 REFERENCE CASE  
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TASK FORCE = DL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
WCU323 U 2A	PACIFIC OCEAN (EX ALASKA)	PACIFIC OFFSHORE (MB/CD)	.0	154.9	11,904
		NATURAL GAS (MMSCF/CD)		111.4	
WCU324 U 2A	PACIFIC OCEAN (EX ALASKA)	PACIFIC OFFSHORE (MB/CD)	.1	.0	11,904
		NATURAL GAS (MMSCF/CD)		.2	
WCU411 U 3	WESTERN ROCKY MOUNTAINS	BUTANE/PROPANE (MB/CD)	135.8	.1	12,628
		PACIFIC OFFSHORE (MB/CD)		.1	
		NATURAL GAS (MMSCF/CD)		.3	
WCU433 U 3	WESTERN ROCKY MOUNTAINS	BUTANE/PROPANE (MB/CD)	.4	3.3	12,628
		GAS LIQUIDS (MB/CD)		2.5	
		WEST TEXAS MIX (MB/CD)		23.1	
		WYOMING MIX (MB/CD)		108.6	
		ALASKAN SO. BROOKS RANGE (MB/CD)		4.1	
NATURAL GAS (MMSCF/CD)	120.8				
WCU511 U 4	EASTERN ROCKY MOUNTAINS	WEST TEXAS MIX (MB/CD)	310.8	.1	12,679
		WYOMING MIX (MB/CD)		.3	
		ALASKAN SO. BROOKS RANGE (MB/CD)		.0	
		NATURAL GAS (MMSCF/CD)		.3	
WCU513 U 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE (MB/CD)	42.8	13.6	12,679
		GAS LIQUIDS (MB/CD)		4.5	
		WYOMING MIX (MB/CD)		267.5	
		HEAVY CRUDE, PADD3 (MB/CD)		43.5	
		NATURAL GAS (MMSCF/CD)		252.7	



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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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TASK FORCE - GS1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
ISG210 G 19	SOUTH ALASKA	NATURAL GAS(MMSCF/CD)	794.5	794.5	
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			47549.4	TOTAL	

NOTE- THE PRICES REPRESENT THE VALUE OF AN ADDITIONAL UNIT OF IMPORT OR PRODUCTION MODE.  
 THE MATERIAL NAMES IDENTIFY THE PRIMARY PRODUCTS AND CO-PRODUCTS FOR THAT MODE.  
 THIS DOES NOT INCLUDE ASSOCIATED GAS PRODUCTION.

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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
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 IMPORTS..... \$13  
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TASK FORCE - DL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
ASU111 U 1	ALASKA(EX NORTH SLOPE)	ALASKAN SO. BROOKS RANGE(MB/CD) NATURAL GAS(MMSCF/CD)	53.0	53.0 12.9	10,606
ASU112 U 1	ALASKA(EX NORTH SLOPE)	ALASKAN SO. BROOKS RANGE(MB/CD) NATURAL GAS(MMSCF/CD)	9.2	9.2 3.1	10,606
ASU122 U 1	ALASKA(EX NORTH SLOPE)	ALASKAN SO. BROOKS RANGE(MB/CD) NATURAL GAS(MMSCF/CD)	266.2	266.2 86.5	10,606
WCU211 U 2	PACIFIC COAST STATES	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WEST COAST BLEND(MB/CD) NATURAL GAS(MMSCF/CD)	480.7	5.7 2.8 480.7 251.1	11,904
WCU212 U 2	PACIFIC COAST STATES	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WEST COAST BLEND(MB/CD) NATURAL GAS(MMSCF/CD)	21.5	.2 .1 21.5 11.6	11,904
WCU213 U 2	PACIFIC COAST STATES	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WEST COAST BLEND(MB/CD) NATURAL GAS(MMSCF/CD)	163.1	1.7 .8 163.1 73.0	11,904
WCU222 U 2	PACIFIC COAST STATES	WEST COAST BLEND(MB/CD)	.1	.1	11,904
WCU233 U 2	PACIFIC COAST STATES		311.2		11,904

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TASK FORCE - DL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
WMS533 U 4	EASTERN ROCKY MOUNTAINS	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WYOMING MIX(MB/CD) HEAVY CRUDE,PADD3(MB/CD) NATURAL GAS(MMSCF/CD)	193.1	2.1 .7 36.8 6.0 35.9	12,679
WTO611 U 5	N. TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WYOMING MIX(MB/CD) HEAVY CRUDE,PADD3(MB/CD) NATURAL GAS(MMSCF/CD)	1110.4	9.7 3.3 166.1 27.0 164.6	12,817
WTO613 U 5	N. TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WEST TEXAS MIX(MB/CD) NATURAL GAS(MMSCF/CD)	420.2	21.0 1110.4 1398.4	12,817
WTO633 U 5	N. TEXAS - E. NEW MEXICO	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WEST TEXAS MIX(MB/CD) NATURAL GAS(MMSCF/CD)	56.8	25.4 9.4 420.2 432.0	12,817
LC0711 U 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) WEST TEXAS MIX(MB/CD) NATURAL GAS(MMSCF/CD)	1899.1	3.4 1.2 56.8 54.4	12,817
		BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD)		182.1 57.5	12,988

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TASK FORCE - DL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
LC0713 U 6	WESTERN GULF BASIN	LOUISIANA ONSHORE(MB/CD) TEXAS GULF(MB/CD) EAST TEXAS MIX(MB/CD) WEST TEXAS MIX(MB/CD) NATURAL GAS(MMSCF/CD)	208.3	911.6 759.6 189.9 38.0 2954.2	12,988
LC0733 U 6	WESTERN GULF BASIN	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) LOUISIANA ONSHORE(MB/CD) TEXAS GULF(MB/CD) EAST TEXAS MIX(MB/CD) WEST TEXAS MIX(MB/CD) NATURAL GAS(MMSCF/CD)	734.5	17.9 5.6 100.0 83.3 20.8 4.2 302.4	12,988
LC0811 U 6A	GULF OF MEXICO	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) LOUISIANA ONSHORE(MB/CD) TEXAS GULF(MB/CD) EAST TEXAS MIX(MB/CD) WEST TEXAS MIX(MB/CD) NATURAL GAS(MMSCF/CD)	674.0	64.6 20.3 352.6 293.8 73.4 14.7 1084.1	12,937
LC0812 U 6A	GULF OF MEXICO	BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) LOUISIANA OFFSHORE(MB/CD) NATURAL GAS(MMSCF/CD)	163.2	26.6 16.2 674.0 1045.7	12,937
		BUTANE/PROPANE(MB/CD) GAS LIQUIDS(MB/CD) LOUISIANA OFFSHORE(MB/CD)		4.0 2.4 163.2	12,937

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TASK FORCE - 0L1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
L00822 0 6A	GULF OF MEXICO	NATURAL GAS(MMSCF/CD)	452.3	247.0	12,937
		BUTANE/PROPANE(MB/CD)		12.1	
L00833 0 6A	GULF OF MEXICO	GAS LIQUIDS(MB/CD)	129.2	7.5	12,937
		LOUISIANA OFFSHORE(MB/CD)		452.3	
OK0911 0 7	MIDCONTINENT	NATURAL GAS(MMSCF/CD)	136.5	672.8	12,889
		BUTANE/PROPANE(MB/CD)		3.6	
OK0912 0 7	MIDCONTINENT	GAS LIQUIDS(MB/CD)	182.0	2.2	12,889
		LOUISIANA OFFSHORE(MB/CD)		129.2	
OK0913 0 7	MIDCONTINENT	NATURAL GAS(MMSCF/CD)	50.1	193.5	12,889
		BUTANE/PROPANE(MB/CD)		2.8	
OK0912 0 7	MIDCONTINENT	GAS LIQUIDS(MB/CD)	182.0	1.7	12,889
		WEST TEXAS MIX(MB/CD)		9.6	
OK0913 0 7	MIDCONTINENT	OKLAHOMA MIX(MB/CD)	50.1	126.9	12,889
		NATURAL GAS(MMSCF/CD)		209.9	
OK0913 0 7	MIDCONTINENT	BUTANE/PROPANE(MB/CD)	50.1	.9	12,889
		GAS LIQUIDS(MB/CD)		.5	
OK0913 0 7	MIDCONTINENT	WEST TEXAS MIX(MB/CD)	50.1	3.5	12,889
		OKLAHOMA MIX(MB/CD)		46.6	
OK0913 0 7	MIDCONTINENT	NATURAL GAS(MMSCF/CD)	50.1	69.9	12,889
		BUTANE/PROPANE(MB/CD)		.9	

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TASK FORCE - 0L1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
OK0933 0 7	MIDCONTINENT	BUTANE/PROPANE(MB/CD)	105.4	1.9	12,889
		GAS LIQUIDS(MB/CD)		1.2	
OK0923 0 7	MIDCONTINENT	WEST TEXAS MIX(MB/CD)	.1	7.4	12,889
		OKLAHOMA MIX(MB/CD)		.1	
I20A11 0 8-9-10	MICH,BAS,E,INT, APP.	NATURAL GAS(MMSCF/CD)	131.1	98.0	12,939
		INDIGENOUS I2(MB/CD)		119.3	
I20A13 0 8-9-10	MICH,BAS,E,INT, APP.	INDIGENOUS I1(MB/CD)	19.2	11.8	12,939
		NATURAL GAS(MMSCF/CD)		90.0	
I20A33 0 6-9-10	MICH,BAS,E,INT, APP.	INDIGENOUS I2(MB/CD)	151.2	17.5	12,939
		INDIGENOUS I1(MB/CD)		1.7	
I20A23 0 8-9-10	MICH,BAS,E,INT, APP.	NATURAL GAS(MMSCF/CD)	.1	13.2	12,939
		BUTANE/PROPANE(MB/CD)		.1	
I20A23 0 8-9-10	MICH,BAS,E,INT, APP.	INDIGENOUS I2(MB/CD)	.1	137.6	12,939
		INDIGENOUS I1(MB/CD)		13.6	
I10B11 0 11	ATLANTIC COAST	NATURAL GAS(MMSCF/CD)	23.2	104.2	12,838
		BUTANE/PROPANE(MB/CD)		.3	

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TASK FORCE - 0L1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
I10B33 0 11	ATLANTIC COAST	INDIGENOUS I1(MB/CD)	97.3	23.2	12,838
		NATURAL GAS(MMSCF/CD)		6.3	
I10C12 0 11A	ATLANTIC OCEAN	BUTANE/PROPANE(MB/CD)	.1	2.2	12,853
		INDIGENOUS I1(MB/CD)		97.3	
I10C22 0 11A	ATLANTIC OCEAN	NATURAL GAS(MMSCF/CD)	128.4	49.4	12,853
		INDIGENOUS I1(MB/CD)		.1	
I10C33 0 11A	ATLANTIC OCEAN	BUTANE/PROPANE(MB/CD)	9.9	4.7	12,853
		INDIGENOUS I1(MB/CD)		128.4	
A00010 0 NORTH SLOPE (ON - OFF)	NORTH SLOPE (ON - OFF)	NATURAL GAS(MMSCF/CD)	1600.0	102.9	12,853
		BUTANE/PROPANE(MB/CD)		.4	
A00010 0 NORTH SLOPE (ON - OFF)	NORTH SLOPE (ON - OFF)	INDIGENOUS I1(MB/CD)	448.0	9.9	12,853
		NATURAL GAS(MMSCF/CD)		7.9	
H50219 0 2	PACIFIC COAST STATES	ALASKAN NORTH SLOPE PROVEN(MB/CD)	200.0	1600.0	11,904
		NATURAL GAS(MMSCF/CD)		2000.0	
H50211 0 2	PACIFIC COAST STATES	ALASKAN NORTH SLOPE PROVEN(MB/CD)	200.0	448.0	11,904
		NATURAL GAS(MMSCF/CD)		287.6	
H50211 0 2	PACIFIC COAST STATES	WEST COAST BLEND(MB/CD)	67.0	200.0	11,904
		HEAVY CRUDE,PADD5(MB/CD)		67.0	

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TASK FORCE - 0L1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
H50212 0 2	PACIFIC COAST STATES	HEAVY CRUDE,PADD5(MB/CD)	62.0	62.0	12,485
		NATURAL GAS(MMSCF/CD)		6.0	
H30512 0 4	EASTERN ROCKY MOUNTAINS	HEAVY CRUDE,PADD3(MB/CD)	27.0	6.0	12,713
		NATURAL GAS(MMSCF/CD)		27.0	
H20711 0 6	WESTERN GULF BASIN	HEAVY CRUDE,PADD2(MB/CD)	51.0	27.0	12,713
		NATURAL GAS(MMSCF/CD)		51.0	
H20712 0 6	WESTERN GULF BASIN	HEAVY CRUDE,PADD2(MB/CD)	4.0	51.0	12,889
		NATURAL GAS(MMSCF/CD)		4.0	
H20911 0 7	MIDCONTINENT	HEAVY CRUDE,PADD2(MB/CD)	5.0	4.0	12,889
		NATURAL GAS(MMSCF/CD)		5.0	
H20912 0 7	MIDCONTINENT	HEAVY CRUDE,PADD2(MB/CD)	5.0	5.0	12,889
		NATURAL GAS(MMSCF/CD)		5.0	
				11981.3	TOTAL

NOTE- THE PRICES REPRESENT THE VALUE OF AN ADDITIONAL UNIT OF IMPORT OR PRODUCTION MODE.  
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 1985 REFERENCE CASE  
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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CHC181 C	NORTHERN APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	16.4	16.4	12,942
CHC192 C	NORTHERN APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	19.2	19.2	12,942
CHC193 C	NORTHERN APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	21.9	21.9	12,942
CHC101 C	NORTHERN APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	21.9	21.9	12,942
CHC281 C	CENTRAL APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	5.5	5.5	12,622
CHC282 C	CENTRAL APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	13.7	13.7	12,622
CHC283 C	CENTRAL APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	11.0	11.0	12,622
CHC284 C	CENTRAL APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	13.7	13.7	12,622
CHC285 C	CENTRAL APPLACHIAN	COAL HI=BTU,HI=S(MT/CD)	11.0	11.0	12,622
CHC481 C	MIDWEST	COAL MED=BTU,HI=S(MT/CD)	65.8	65.8	10,780
CHC482 C	MIDWEST	COAL MED=BTU,HI=S(MT/CD)	24.5	24.5	10,780
CHC581 C	CENTRAL WEST		9.6		11,350

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
		COAL MED=BTU,HI=S(MT/CD)		9.6	
CZC481 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC482 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC483 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC484 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	2.7	2.7	22,779
CZC401 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC402 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC403 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC404 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC405 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC406 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC407 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CZC408 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.4	1.4	22,779
CZC409 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.6	1.6	22,779
CZC404 C	MIDWEST	COAL MED=BTU,LO=S(MT/CD)	1.6	1.6	22,779
CZC981 C	WUCKIES	COAL MED=BTU,LO=S(MT/CD)	2.7	2.7	10,028
CXC881 C	WESTERN NORTHERN GREAT PLAINS	COAL LO=BTU,LO=S(MT/CD)	197.3	197.3	5,844
CXC882 C	WESTERN NORTHERN GREAT PLAINS	COAL LO=BTU,LO=S(MT/CD)	213.7	213.7	5,844
CXC481 C	MIDWEST	COAL LO=BTU,LO=S(MT/CD)	2.7	2.7	8,904
CYC781 C	EASTERN NORTHERN GREAT PLAINS	COAL VLO=BTU,LO=S(MT/CD)	21.9	21.9	8,160
CYC782 C	EASTERN NORTHERN GREAT PLAINS	COAL VLO=BTU,LO=S(MT/CD)	16.4	16.4	8,160
CYC783 C	EASTERN NORTHERN GREAT PLAINS	COAL VLO=BTU,LO=S(MT/CD)	14.2	14.2	8,160
CIC101 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	.3	.3	24,941

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CIC102 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	.3	.3	24,941
CIC103 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	1.4	1.4	24,941
CIC104 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	1.4	1.4	24,941
CIC105 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	1.4	1.4	24,941
CIC106 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	1.4	1.4	24,941
CIC107 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	1.6	1.6	24,941
CIC108 C	NORTHERN APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	2.2	2.2	24,941
CIC281 C	CENTRAL APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	5.5	5.5	24,147
CIC282 C	CENTRAL APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	8.2	8.2	24,147
CIC283 C	CENTRAL APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	4.1	4.1	24,147
CIC284 C	CENTRAL APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	8.2	8.2	24,147
CIC285 C	CENTRAL APPLACHIAN	COAL HI=BTU,LO=S(MT/CD)	8.2	8.2	24,147



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TASK FORCE - CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
		COAL HI-BTU,LO-S(MT/CD)		8.2	
CIC2S6 C	CENTRAL APPLACHIAN		4.1	4.1	24,147
CIC2S7 C	CENTRAL APPLACHIAN		4.1	4.1	24,147
CIC2S8 C	CENTRAL APPLACHIAN		11.0	11.0	24,147
CIC2S9 C	CENTRAL APPLACHIAN		4.1	4.1	24,147
CIC2SA C	CENTRAL APPLACHIAN		13.7	13.7	24,147
CIC2D1 C	CENTRAL APPLACHIAN		1.4	1.4	24,147
CIC2D2 C	CENTRAL APPLACHIAN		2.7	2.7	24,147
CIC2D3 C	CENTRAL APPLACHIAN		2.7	2.7	24,147
CIC2D4 C	CENTRAL APPLACHIAN		.3	.3	24,147
CIC2D5 C	CENTRAL APPLACHIAN		2.7	2.7	24,147
CIC2D6 C	CENTRAL APPLACHIAN		2.7	2.7	24,147

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TASK FORCE - CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CIC2D7 C	CENTRAL APPLACHIAN		5.5	5.5	24,147
CIC2D8 C	CENTRAL APPLACHIAN		1.4	1.4	24,147
CIC2D9 C	CENTRAL APPLACHIAN		8.2	8.2	24,147
CIC2DA C	CENTRAL APPLACHIAN		1.4	1.4	24,147
CIC2DH C	CENTRAL APPLACHIAN		8.2	8.2	24,147
CIC2DC C	CENTRAL APPLACHIAN		4.1	4.1	24,147
CIC2DE C	CENTRAL APPLACHIAN		4.1	4.1	24,147
CIC2DF C	CENTRAL APPLACHIAN		4.1	4.1	24,147
CIC2DG C	CENTRAL APPLACHIAN		8.2	8.2	24,147
CIC2DH C	CENTRAL APPLACHIAN		1.9	1.9	24,147
CIC2DI C	CENTRAL APPLACHIAN		11.0	11.0	24,147

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TASK FORCE - CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CIC2DJ C	CENTRAL APPLACHIAN		11.0	11.0	24,147
CIC2DK C	CENTRAL APPLACHIAN		8.2	8.2	24,147
CIC2DL C	CENTRAL APPLACHIAN		11.0	11.0	24,147
CIC2DM C	CENTRAL APPLACHIAN		11.0	11.0	24,147
CIC2DN C	CENTRAL APPLACHIAN		2.5	2.5	24,147
CIC2DO C	CENTRAL APPLACHIAN		7.1	7.1	24,147
CIC3D1 C	SOUTHERN APPLACHIAN		.8	.8	25,977
CIC3D2 C	SOUTHERN APPLACHIAN		1.1	1.1	25,977
CIC3D3 C	SOUTHERN APPLACHIAN		1.1	1.1	25,977
CMC1S1 C	NORTHERN APPLACHIAN		1.4	1.4	21,150
CMC1O1 C	NORTHERN APPLACHIAN		.8	.8	21,150
CMC1O2 C	NORTHERN APPLACHIAN		2.7	2.7	21,150

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 1985 REFERENCE CASE  
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TASK FORCE - CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
		COAL,METALLURGICAL(MT/CD)		2.7	
CMC1D3 C	NORTHERN APPLACHIAN		2.7	2.7	21,150
CMC1D4 C	NORTHERN APPLACHIAN		2.7	2.7	21,150
CMC1D5 C	NORTHERN APPLACHIAN		2.7	2.7	21,150
CMC1D6 C	NORTHERN APPLACHIAN		2.7	2.7	21,150
CMC1D7 C	NORTHERN APPLACHIAN		1.9	1.9	21,150
CMC1D8 C	NORTHERN APPLACHIAN		2.7	2.7	21,150
CMC1D9 C	NORTHERN APPLACHIAN		2.7	2.7	21,150
CMC2S1 C	CENTRAL APPLACHIAN		2.7	2.7	20,590
CMC2S2 C	CENTRAL APPLACHIAN		5.5	5.5	20,590
CMC2S3 C	CENTRAL APPLACHIAN		13.7	13.7	20,590
CMC2S4 C	CENTRAL APPLACHIAN		5.5	5.5	20,590

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CMC2S5 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	2.7	2.7	20,590
CMC2S6 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	13.7	13.7	20,590
CMC2S7 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	5.5	5.5	20,590
CMC2S8 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	13.7	13.7	20,590
CMC2S9 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	11.0	11.0	20,590
CMC2S4 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	11.0	11.0	20,590
CMC2D1 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	5.5	5.5	20,590
CMC2D2 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	8.2	8.2	20,590
CMC2D3 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	5.5	5.5	20,590
CMC2D4 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	60.3	60.3	20,590
CMC2D5 C	CENTRAL APPLACHIAN	COAL, METALLURGICAL (MT/CD)	7.8	7.8	20,590

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CUC6S1 C	GULF	COAL VLO=BTU, HI=S(MT/CD)	10.4	10.4	6,610
CMC1SX C	NORTHERN APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	115.1	115.1	12,942
CMC1DX C	NORTHERN APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	163.0	163.0	12,942
CMC1DY C	NORTHERN APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	45.5	45.5	12,942
CMC2SX C	CENTRAL APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	9.0	9.0	12,622
CMC2SY C	CENTRAL APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	19.3	19.3	12,622
CMC2DX C	CENTRAL APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	26.3	26.3	12,622
CMC2DY C	CENTRAL APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	42.5	42.5	12,622
CMC3SX C	SOUTHERN APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	10.1	10.1	14,452
CMC3DX C	SOUTHERN APPLACHIAN	COAL HI=BTU, HI=S(MT/CD)	5.2	5.2	14,452
CMC4SX C	MIDWEST	COAL MED=BTU, HI=S(MT/CD)	135.6	135.6	10,780
CMC4SY C	MIDWEST	COAL MED=BTU, HI=S(MT/CD)	31.2	31.2	10,780

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CMC4DX C	MIDWEST	COAL MED=BTU, HI=S(MT/CD)	31.2	31.2	10,780
CMC4DY C	MIDWEST	COAL MED=BTU, HI=S(MT/CD)	87.1	87.1	10,780
CMC5SX C	CENTRAL WEST	COAL MED=BTU, HI=S(MT/CD)	43.7	43.7	10,780
CZC4SX C	MIDWEST	COAL MED=BTU, HI=S(MT/CD)	15.9	15.9	11,350
CZC4SY C	MIDWEST	COAL MED=BTU, LO=S(MT/CD)	9.0	9.0	22,779
CZC4DX C	MIDWEST	COAL MED=BTU, LO=S(MT/CD)	1.1	1.1	22,779
CZC4DY C	MIDWEST	COAL MED=BTU, LO=S(MT/CD)	6.0	6.0	22,779
CZC9SX C	ROCKIES	COAL MED=BTU, LO=S(MT/CD)	1.8	1.8	22,779
CZC9SY C	ROCKIES	COAL MED=BTU, LO=S(MT/CD)	4.7	4.7	10,028
CZC9DX C	ROCKIES	COAL MED=BTU, LO=S(MT/CD)	.4	.4	10,028
CZC9DY C	ROCKIES	COAL MED=BTU, LO=S(MT/CD)	11.5	11.5	10,028
		COAL MED=BTU, LO=S(MT/CD)	15.3	15.3	10,028

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CXC6SX C	WESTERN NORTHERN GREAT PLAINS	COAL LO=BTU, LO=S(MT/CD)	5.5	5.5	5,844
CXC6SY C	WESTERN NORTHERN GREAT PLAINS	COAL LO=BTU, LO=S(MT/CD)	266.6	266.6	5,844
CXC6DX C	WESTERN NORTHERN GREAT PLAINS	COAL LO=BTU, LO=S(MT/CD)	.3	.3	5,844
CXC6DY C	WESTERN NORTHERN GREAT PLAINS	COAL LO=BTU, LO=S(MT/CD)	4.9	4.9	5,844
CXCASX C	SOUTHWEST	COAL LO=BTU, LO=S(MT/CD)	3.3	3.3	8,904
CXCASY C	SOUTHWEST	COAL LO=BTU, LO=S(MT/CD)	15.1	15.1	8,904
CXC6SX C	ALASKA	COAL LO=BTU, LO=S(MT/CD)	.3	.3	7,995
CYC7SX C	EASTERN NORTHERN GREAT PLAINS	COAL VLO=BTU, LO=S(MT/CD)	4.7	4.7	8,160
CYC7SY C	EASTERN NORTHERN GREAT PLAINS	COAL VLO=BTU, LO=S(MT/CD)	11.8	11.8	8,160
CIC1SX C	NORTHERN APPLACHIAN	COAL HI=BTU, LO=S(MT/CD)	7.1	7.1	24,941
CIC1DX C	NORTHERN APPLACHIAN	COAL HI=BTU, LO=S(MT/CD)	10.1	10.1	24,941

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TASK FORCE = CL1

ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CIC1DY C	NORTHERN APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	14.5	14.5	24,941
CIC2SX C	CENTRAL APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	53.2	53.2	24,147
CIC2SY E	CENTRAL APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	6.0	6.0	24,147
CIC2DX C	CENTRAL APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	115.3	115.3	24,147
CIC2DY C	CENTRAL APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	19.5	19.5	24,147
CIC3SX C	SOUTHERN APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	9.9	9.9	25,977
CIC3SY E	SOUTHERN APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	3.8	3.8	25,977
CIC3DX C	SOUTHERN APPLACHIAN	COAL HI-BTU,LO-S(MT/CD)	6.6	6.6	25,977
CMC1DY C	NORTHERN APPLACHIAN	COAL,METALLURGICAL(MT/CD)	32.3	32.3	21,150
CMC2SX C	CENTRAL APPLACHIAN	COAL,METALLURGICAL(MT/CD)	23.6	23.6	20,590
CMC2DX C	CENTRAL APPLACHIAN	COAL,METALLURGICAL(MT/CD)	60.3	60.3	20,590
CMC2DY C	CENTRAL APPLACHIAN	COAL,METALLURGICAL(MT/CD)	19.7	19.7	20,590

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ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
CMC3SX C	SOUTHERN APPLACHIAN	COAL,METALLURGICAL(MT/CD)	.5	.5	19,270
CMC3SY C	SOUTHERN APPLACHIAN	COAL,METALLURGICAL(MT/CD)	.5	.5	19,270
CMC3DY C	SOUTHERN APPLACHIAN	COAL,METALLURGICAL(MT/CD)	29.5	29.5	19,270
CMC9SX C	ROCKIES	COAL,METALLURGICAL(MT/CD)	4.1	4.1	11,970
CMC9DX C	HUCKIES	COAL,METALLURGICAL(MT/CD)	12.6	12.6	11,970
CUC6SX C	GULF	COAL VLD=BTU,HI-S(MT/CD)	21.1	21.1	6,610
CUC6SY C	GULF	COAL VLD=BTU,HI-S(MT/CD)	24.9	24.9	6,610
CUC7SX C	EASTERN NORTHERN GREAT PLAINS	COAL VLD=BTU,HI-S(MT/CD)	16.7	16.7	5,248
CVC8SX C	WESTERN NORTHERN GREAT PLAINS	COAL LO=BTU,HI-S(MT/CD)	62.0	62.0	4,080
CVCASX C	SOUTHWEST	COAL LO=BTU,HI-S(MT/CD)	35.3	35.3	4,680
CVC8SX C	NORTHWEST	COAL LO=BTU,HI-S(MT/CD)	11.0	11.0	5,950

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ACTIVITY NAME	LOCATION	MATERIAL	ACTIVITY LEVEL	QUANTITY	PRICE(75\$)
					2847.5 TOTAL

NOTE- THE PRICES REPRESENT THE VALUE OF AN ADDITIONAL UNIT OF IMPORT OR PRODUCTION MODE.  
 THE MATERIAL NAMES IDENTIFY THE PRIMARY PRODUCTS AND CO-PRODUCTS FOR THAT MODE.  
 THIS INCLUDES COAL PRODUCTION FOR EXPORT FROM REGION 2

RAW MATERIAL ACQUISITION REPORT

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SUMMARY OF CO-PRODUCTS BY REGION

REGION	HU/PR	GL	CO	NG	AGG OIL	AGG GAS
D1				102.6	328.4	102.6
D2	10.7	5.2		475.1	1321.4	475.1
D3	11.2	6.3		428.2	660.4	428.2
D4	3.3	2.5		121.1	142.0	121.1
D5	25.4	8.5		453.1	586.5	453.1
D6	85.5	31.6		1884.9	1704.5	1884.9
D7	264.6	83.5		4340.8	3267.9	4340.8
D8	46.2	28.3		2159.1	1493.2	2159.1
D9	8.6	5.3		829.8	496.9	829.8
DA	.1			207.4	301.7	207.4
DB	2.5			55.7	123.0	55.7
DC	5.1			110.8	143.5	110.8
DD				2287.6	2048.0	2287.6
DN						
GN						
G1						794.5
G2						194.7
G3	.4	.1	.1		.6	137.9
G4	.1	.1	.1		.3	1568.1
G5	23.0	6.4	10.5		39.4	2012.7
G6	12.3	4.2	6.4		22.9	5031.1
G7	56.9	16.5	28.3		101.8	15654.9
G8	261.7	123.8	133.1		518.5	12300.1
G9	148.9	81.2	87.4		317.4	9007.2
GA	120.3	36.7	60.1		217.1	127.0
GB	1.1	.5	.5		2.1	721.3
GC	15.7	2.4	6.9		24.9	
GD						
GE						
TOTAL	1103.4	444.9	333.4	13456.1	13863.0	61005.5

NOTE - AGGREGATE GAS INCLUDES ASSOCIATED AND NON-ASSOCIATED GAS PRODUCTION,BUT EXCLUDES ALL SYNTHETICS.  
 AGGREGATE OIL INCLUDES OIL,RUTANE/PROPANE,CONDENSATE AND GAS LIQUIDS PRODUCTION,BUT EXCLUDES ALL SYNTHETICS.



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MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE (75\$)
GASOLINE, ALL GRADES (MB/CD)		48.8-			14.57
DISTILLATE, ALL GRADES (MB/CD)		125.8-			14.50
OTHER REFINED PETROLEUM (MB/CD)		246.3-			16.39
RESIDUAL, ALL GRADES (MB/CD)		774.8-			14.45
OIL, AGGREGATE FOREIGN (MB/CD)		4666.8-			13.00
NATURAL GAS (MMSCF/CD)		3498.7-			2.14

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

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MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE (75\$)
GASOLINE, ALL GRADES (MB/CD)		7487.6-	7487.6		14.31
DISTILLATE, ALL GRADES (MB/CD)		6188.1-	6188.1		13.99
OTHER REFINED PETROLEUM (MB/CD)		3929.8-	4724.8		15.98
RESIDUAL, ALL GRADES (MB/CD)		1925.2-	1925.2		13.41
SHALE OIL (MB/CD)		300.0	300.0-		13.00
WEST COAST BLEND (MB/CD)		1176.5	1176.5-		13.92
HEAVY CRUDE, PADD2 (MB/CD)		67.0	67.0-		12.99
HEAVY CRUDE, PADD3 (MB/CD)		62.5	62.5-		13.00
HEAVY CRUDE, PADD5 (MB/CD)		129.0	129.0-		13.92
LOUISIANA OFFSHORE (MB/CD)		1418.7	1418.7-		13.00
EAST TEXAS MIX (MB/CD)		284.2	284.2-		13.00
WEST TEXAS MIX (MB/CD)		1700.6	1700.6-		13.00
OKLAHOMA MIX (MB/CD)		440.9	440.9-		12.93
ALASKAN SU. BROOKS RANGE (MB/CD)		332.5	332.5-		12.92
PACIFIC OFFSHORE (MB/CD)		641.0	641.0-		12.47
ALASKAN NORTH SLOPE PROVEN (MB/CD)		2048.0	2048.0-		11.94
TEXAS GULF (MB/CD)		1136.8	1136.8-		13.00
INDIGENOUS I1 (MB/CD)		286.0	286.0-		13.00
INDIGENOUS I2 (MB/CD)		274.5	274.5-		13.00
OIL, AGGREGATE FOREIGN (MB/CD)		4666.8	4666.8-		13.00
WYOMING MIX (MB/CD)		579.1	579.1-		12.94
LOUISIANA ONSHORE (MB/CD)		1364.1	1364.1-		13.00
CONDENSATE (MB/CD)		333.4	333.4-		14.33
GAS LIQUIDS (MB/CD)		444.9	444.9-		14.33
BUTANE/PROPANE (MB/CD)		1103.4	1103.4-		13.34

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

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 1985 REFERENCE CASE  
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MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE (75\$)
COAL HI=BTU, MI=S (MT/CD)	570.3	570.3-			12.90
COAL MED=BTU, MI=S (MT/CD)	413.4	413.4-			10.82
COAL LO=BTU, LO=S (MT/CD)	709.6	709.6-			5.94
COAL VLO=BTU, LU=S (MT/CD)	69.0	69.0-			8.16
COAL, ALL HI=S (MT-EQUIV/CD)			.0-		
COAL, HI=BTU, LO=S (MT/CD)	451.5	451.5-			24.31
COAL, METALLURGICAL (MT/CD)	378.6	378.6-			20.19
COAL MED=BTU, LU=S (MT/CD)	73.7	73.7-			16.78
COAL VLO=BTU, MI=S (MT/CD)	73.2	73.2-			6.30
COAL LO=BTU, MI=S (MT/CD)	106.2	70.5-	37.6-		4.51
NATURAL GAS (MMSCF/CD)		449.6-	449.6		1.93

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

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 1985 REFERENCE CASE  
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 DEMAND SCENARIO..... DB51215  
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 IMPORTS..... \$13  
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MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE (75\$)
DISTILLATE, ALL GRADES (MB/CD)		188.7	188.7-		13.90
RESIDUAL, ALL GRADES (MB/CD)		1000.0	1000.0-		13.84
COAL, ALL HI=S (MT-EQUIV/CD)		1044.0	1044.0-		15.96
COAL, ALL LO=S (MT-EQUIV/CD)		828.8	828.8-		24.72
NATURAL GAS (MMSCF/CD)		8093.0	8093.0-		1.98
ELECTRICITY (MMKWH/CD)		8299.1-	8299.1		34.39
ELEC BASE (MMKWH/CD)			.0-		.0-
ELEC INTER (MMKWH/CD)			.0-		.0-
ELEC PEAK (MMKWH/CD)			.0-		.0-

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

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MODEL	85BAU6A
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MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE(75\$)
COAL, ALL HI-S(MT-EQUIV/CD)		407.7		408.1	27.82
GASOLINE, ALL GRADES(MB/CD)		7536.3		7538.5	14.41
DISTILLATE, ALL GRADES(MB/CD)		6125.2		6125.2	14.16
OTHER REFINED PETROLEUM(MB/CD)		4176.1		4178.4	16.12
RESIDUAL, ALL GRADES(MB/CD)		1700.0		1700.0	14.15
COAL, METALLURGICAL(MT/CD)		192.6		192.6	27.28
NATURAL GAS(MMSCF/CD)		56856.8		56475.8	2.03
ELECTRICITY(MMkWh/CD)		8299.1		8279.1	29.73

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMkWh/CD

NOTE = THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

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MODEL	85BAU6A
DEMAND SCENARIO	DB51215
DATE & REVISION	DEC15-1
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MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE(75\$)
WEST COAST BLEND(MB/CD)	1176.5	1176.5		1176.5	11.90
HEAVY CRUDE, PADD2(MB/CD)	87.0	87.0		87.0	12.73
HEAVY CRUDE, PADD3(MB/CD)	82.5	82.5		82.5	12.48
HEAVY CRUDE, PADD5(MB/CD)	129.0	129.0		129.0	11.90
LOUISIANA OFFSHORE(MB/CD)	1418.7	1418.7		1418.7	12.94
EAST TEXAS MIX(MB/CD)	284.2	284.2		284.2	12.99
WEST TEXAS MIX(MB/CD)	1700.6	1700.6		1700.6	12.82
OKLAHOMA MIX(MB/CD)	440.9	440.9		440.9	12.89
ALASKAN SD, BROOKS RANGE(MB/CD)	332.5	332.5		332.5	10.62
PACIFIC OFFSHORE(MB/CD)	641.0	641.0		641.0	11.90
ALASKAN NORTH SLOPE PROVEN(MB/CD)	2048.0	2048.0		2048.0	8.99
TEXAS GULF(MB/CD)	1136.8	1136.8		1136.8	12.99
INDIGENOUS I1(MB/CD)	286.0	286.0		286.0	12.85
INDIGENOUS I2(MB/CD)	274.5	274.5		274.5	12.94
WYOMING MIX(MB/CD)	579.1	579.1		579.1	12.67
LOUISIANA ONSHORE(MB/CD)	1364.1	1364.1		1364.1	12.99
NATURAL GAS(MMSCF/CD)	13456.1	13456.1		13456.1	1.93
GAS LIQUIDS(MB/CD)	173.0	173.0		173.0	14.33
BUTANE/PROPANE(MB/CD)	463.1	463.1		463.1	13.34

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMkWh/CD

NOTE = THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DB51215
DATE & REVISION	DEC15-1
IMPORTS	\$13

MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE(75\$)
NATURAL GAS(MMSCF/CD)	47549.4	47549.4		47549.4	2.13
CONDENSATE(MB/CD)	333.4	333.4		333.4	14.33
GAS LIQUIDS(MB/CD)	271.9	271.9		271.9	14.33
BUTANE/PROPANE(MB/CD)	640.3	640.3		640.3	13.34

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMkWh/CD

NOTE = THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DB51215
DATE & REVISION	DEC15-1
IMPORTS	\$13

MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE(75\$)
SHALE OIL(MB/CD)		300.0	300.0		12.63

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMkWh/CD

NOTE = THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DB51215
DATE & REVISION	DEC15-1
IMPORTS	\$13

MATERIAL	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	AVERAGE PRICE(75\$)
COAL, ALL HI-S(MT-EQUIV/CD)		407.7		408.1	27.82
GASOLINE, ALL GRADES(MB/CD)		.0	7487.6	7536.5	14.98
DISTILLATE, ALL GRADES(MB/CD)		.0	5949.4	6125.2	14.08
OTHER REFINED PETROLEUM(MB/CD)		.0	4723.8	4178.4	16.07
RESIDUAL, ALL GRADES(MB/CD)		.0	429.2	1700.0	13.87
COAL HI-BTU, HI-S(MT/CD)	570.3	570.3		570.3	12.90
COAL MED-BTU, HI-S(MT/CD)	413.4	413.4		413.4	10.82
COAL LO-BTU, LO-S(MT/CD)	709.6	709.6		709.6	5.94
COAL VLO-BTU, LO-S(MT/CD)	69.0	69.0		69.0	8.16
COAL ALL HI-S(MT-EQUIV/CD)		1044.0	1044.0		15.96
COAL HI-BTU, LO-S(MT/CD)	451.5	451.5		451.5	24.31
COAL METALLURGICAL(MT/CD)	374.6	374.6		374.6	22.58
COAL MED-BTU, LO-S(MT/CD)	73.7	73.7		73.7	16.78
COAL VLO-BTU, LO-S(MT/CD)		828.8	828.8		24.72
COAL LO-BTU, HI-S(MT/CD)	73.2	73.2		73.2	6.30
WEST COAST BLEND(MB/CD)	108.2	108.2		108.2	37.6
HEAVY CRUDE, PADD2(MB/CD)	1176.5	1176.5		1176.5	4.51
HEAVY CRUDE, PADD3(MB/CD)	87.0	87.0		87.0	11.91
HEAVY CRUDE, PADD5(MB/CD)	129.0	129.0		129.0	12.86
LOUISIANA OFFSHORE(MB/CD)	1418.7	1418.7		1418.7	12.74
EAST TEXAS MIX(MB/CD)	284.2	284.2		284.2	11.91
WEST TEXAS MIX(MB/CD)	1700.6	1700.6		1700.6	12.97
OKLAHOMA MIX(MB/CD)	440.9	440.9		440.9	12.99
ALASKAN SD, BROOKS RANGE(MB/CD)	332.5	332.5		332.5	12.82
PACIFIC OFFSHORE(MB/CD)	641.0	641.0		641.0	12.91
ALASKAN NORTH SLOPE PROVEN(MB/CD)	2048.0	2048.0		2048.0	11.27
TEXAS GULF(MB/CD)	1136.8	1136.8		1136.8	12.19
INDIGENOUS I1(MB/CD)	286.0	286.0		286.0	10.47
INDIGENOUS I2(MB/CD)	274.5	274.5		274.5	10.99
OIL, AGGREGATE FOREIGN (MB/CD)		4666.8		4666.8	12.95
WYOMING MIX(MB/CD)	579.1	579.1		579.1	12.97
LOUISIANA ONSHORE(MB/CD)	1364.1	1364.1		1364.1	13.00
NATURAL GAS(MMSCF/CD)	61005.5	61005.5		61005.5	12.80
ELECTRICITY(MMkWh/CD)		.0	7643.4	7643.4	12.99
ELEC BASE (MMkWh/CD)		.0	8299.1	8299.1	2.06
ELEC INTER (MMkWh/CD)		.0	.0	.0	32.06
ELEC PEAK (MMkWh/CD)		.0	.0	.0	.0
CONDENSATE(MB/CD)		.0	333.4	333.4	14.33
GAS LIQUIDS(MB/CD)		.0	444.9	444.9	14.33
BUTANE/PROPANE(MB/CD)		.0	1103.4	1103.4	13.34

NOTE - THE PRICE REPRESENTS THE AVERAGE OF THE MARGINAL COSTS OR PRICES OF THE PRODUCTS FOR THE REGIONS COVERED.

PRIMARY MATERIAL BALANCE REPORT

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DB51215
DATE & REVISION.....	DEC15-1
IMPORTS.....	\$13

MATERIAL CB COAL, ALL HI-S(MT-EQUIV/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
D NORTH EAST	DEMAND		1,10		1,10	33,06
D MID ATLANTIC	DEMAND		60,51		60,51	30,10
D SOUTH ATLANTIC	DEMAND		77,11		77,11	30,31
D EAST NORTH CENTRAL	DEMAND		161,43		161,43	27,44
D EAST SOUTH CENTRAL	DEMAND		64,05		64,47	27,91
D WEST NORTH CENTRAL	DEMAND		28,46		28,46	23,73
D WEST SOUTH CENTRAL	DEMAND		1,05		1,05	24,63
D MOUNTAIN	DEMAND		11,22		11,22	24,46
D PACIFIC	DEMAND		2,75		2,75	24,26
T BOSTON; RAIL	TRANSFER			1,10		31,06
T NEW YORK; RAIL	TRANSFER			39,33		29,04
T BALTIMORE-PHIL.; RAIL	TRANSFER			58,37		27,40
T MIAMI; RAIL	TRANSFER			11,57		33,61
T PITTSBURGH; RAIL	TRANSFER			9,08		27,31
T ATLANTA; RAIL	TRANSFER			19,28		26,38
T CINCINNATI; RAIL	TRANSFER			54,58		27,56
T DETROIT; RAIL	TRANSFER			48,43		24,54
T CHICAGO; RAIL	TRANSFER			80,72		22,62
T ST. LOUIS; RAIL	TRANSFER			26,10		22,32
T ST. PAUL-MINNAPL.; RAIL	TRANSFER			11,38		19,53
T KANSAS CITY; RAIL	TRANSFER			7,11		24,68
T HOUSTON; RAIL	TRANSFER			.32		21,75
T DALLAS; RAIL	TRANSFER			.74		12,46
T DENVER; RAIL	TRANSFER			11,22		22,26
T LOS ANGELES; RAIL	TRANSFER			1,65		22,62
T SAN FRANCISCO; RAIL	TRANSFER			.82		21,19
T SEATTLE; RAIL	TRANSFER			.27		25,22
T NEW ORLEANS; RAIL	TRANSFER			25,62		

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MKMWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

PRIMARY MATERIAL BALANCE REPORT

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DB51215
DATE & REVISION.....	DEC15-1
IMPORTS.....	\$13

MATERIAL CA COAL, ALL HI-S(MT-EQUIV/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C WESTERN NORTHERN GREAT PLAINS	COAL			.00-		4,83
C SOUTHWEST	COAL			.00-		5,55
U NORTH EAST	UTILITY		35,53	35,53-		20,25
U MID ATLANTIC	UTILITY		179,77	179,77-		17,23
U SOUTH ATLANTIC	UTILITY		244,95	244,95-		17,51
U EAST NORTH CENTRAL	UTILITY		278,39	278,39-		15,02
U EAST SOUTH CENTRAL	UTILITY		111,21	111,21-		13,89
U WEST NORTH CENTRAL	UTILITY		99,54	99,54-		14,91
U WEST SOUTH CENTRAL	UTILITY		35,12	35,12-		15,40
U MOUNTAIN	UTILITY		36,41	36,41-		10,37
U PACIFIC	UTILITY		23,12	23,12-		18,40
T BOSTON; RAIL	TRANSFER			35,53		20,25
T NEW YORK; RAIL	TRANSFER			116,85		18,24
T BALTIMORE-PHIL.; RAIL	TRANSFER			215,92	33,00-	16,60
T MIAMI; RAIL	TRANSFER			36,74		22,81
T PITTSBURGH; RAIL	TRANSFER			26,97		13,71
T ATLANTA; RAIL	TRANSFER			61,24		16,51
T CINCINNATI; RAIL	TRANSFER			94,56		14,11
T DETROIT; RAIL	TRANSFER			83,52		16,32
T CHICAGO; RAIL	TRANSFER			139,19		14,81
T ST. LOUIS; RAIL	TRANSFER			62,68		13,08
T ST. PAUL-MINNAPL.; RAIL	TRANSFER			39,82		17,51
T KANSAS CITY; RAIL	TRANSFER			24,88		13,33
T HOUSTON; RAIL	TRANSFER			10,54		16,33
T DALLAS; RAIL	TRANSFER			24,58		15,00
T DENVER; RAIL	TRANSFER			36,41		10,37
T LOS ANGELES; RAIL	TRANSFER			13,87		19,56
T SAN FRANCISCO; RAIL	TRANSFER			6,94		19,17
T SEATTLE; RAIL	TRANSFER			2,31		9,45
T NEW ORLEANS; RAIL	TRANSFER			44,48		13,55

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MKMWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DB51215
DATE & REVISION.....	DEC15-1
IMPORTS.....	\$13

MATERIAL CL COAL, ALL LU-S(MT-EQUIV/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
U NORTH EAST	UTILITY		7,08	7,08-		31,06
U MID ATLANTIC	UTILITY		126,66	126,66-		28,10
U SOUTH ATLANTIC	UTILITY		153,85	153,85-		28,31
U EAST NORTH CENTRAL	UTILITY		226,89	226,89-		25,44
U EAST SOUTH CENTRAL	UTILITY		87,98	87,98-		25,91
U WEST NORTH CENTRAL	UTILITY		107,28	107,28-		21,68
U WEST SOUTH CENTRAL	UTILITY		48,46	48,46-		22,63
U MOUNTAIN	UTILITY		70,58	70,58-		12,46
T BOSTON; RAIL	TRANSFER			7,08		31,06
T NEW YORK; RAIL	TRANSFER			122,33		29,04
T BALTIMORE-PHIL.; RAIL	TRANSFER			117,64		27,40
T MIAMI; RAIL	TRANSFER			23,08		33,61
T PITTSBURGH; RAIL	TRANSFER			19,00		24,96
T ATLANTA; RAIL	TRANSFER			38,46		27,31
T CINCINNATI; RAIL	TRANSFER			75,48		26,38
T DETROIT; RAIL	TRANSFER			66,07		27,56
T CHICAGO; RAIL	TRANSFER			113,45		24,54
T ST. LOUIS; RAIL	TRANSFER			60,24		22,62
T ST. PAUL-MINNAPL.; RAIL	TRANSFER			42,91		22,19
T KANSAS CITY; RAIL	TRANSFER			26,82		19,53
T HOUSTON; RAIL	TRANSFER			14,58		24,68
T DALLAS; RAIL	TRANSFER			33,92		21,75
T DENVER; RAIL	TRANSFER			70,58		12,46
T NEW ORLEANS; RAIL	TRANSFER			35,19		25,22

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MKMWH/CD

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PRIMARY MATERIAL BALANCE REPORT

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DB51215
DATE & REVISION.....	DEC15-1
IMPORTS.....	\$13

MATERIAL CM COAL HI-BTU, HI-S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C NORTHERN APPLACHIAN	COAL	403,01	403,01-			12,94
C CENTRAL APPLACHIAN	COAL	151,92	151,92-			12,62
C SOUTHERN APPLACHIAN	COAL	15,34	15,34-			14,45
C WESTERN NORTHERN GREAT PLAINS	COAL					5,16
C SOUTHWEST	COAL					5,92
T BOSTON; RAIL	TRANSFER		33,30	33,30-		21,61
T NEW YORK; RAIL	TRANSFER		109,51	109,51-		19,46
T BALTIMORE-PHIL.; RAIL	TRANSFER		202,36	202,36-		17,71
T MIAMI; RAIL	TRANSFER		34,43	34,43-		24,34
T PITTSBURGH; RAIL	TRANSFER		33,78	33,78-		14,63
T ATLANTA; RAIL	TRANSFER		57,39	57,39-		17,61
T CINCINNATI; RAIL	TRANSFER					16,15
T DETROIT; RAIL	TRANSFER		99,49	99,49-		17,41
T CHICAGO; RAIL	TRANSFER					15,80
T ST. LOUIS; RAIL	TRANSFER					13,95
T ST. PAUL-MINNAPL.; RAIL	TRANSFER					18,73
T KANSAS CITY; RAIL	TRANSFER					14,23
T HOUSTON; RAIL	TRANSFER					17,43
T DALLAS; RAIL	TRANSFER					16,00
T DENVER; RAIL	TRANSFER					20,20
T LOS ANGELES; RAIL	TRANSFER					29,72
T SAN FRANCISCO; RAIL	TRANSFER					25,31
T SEATTLE; RAIL	TRANSFER					16,85
T NEW ORLEANS; RAIL	TRANSFER					15,15
B BOSTON; BARGE	TRANSFER					21,41
B NEW YORK; BARGE	TRANSFER					19,26
B BALTIMORE-PHIL.; BARGE	TRANSFER					17,96
B MIAMI; BARGE	TRANSFER					24,14
B PITTSBURGH; BARGE	TRANSFER					14,51
B CINCINNATI; BARGE	TRANSFER					15,95
B DETROIT; BARGE	TRANSFER					17,21
B CHICAGO; BARGE	TRANSFER					15,60
B ST. LOUIS; BARGE	TRANSFER					14,20
B ST. PAUL-MINNAPL.; BARGE	TRANSFER					18,53
B KANSAS CITY; BARGE	TRANSFER					14,48
B HOUSTON; BARGE	TRANSFER					17,68
B LOS ANGELES; BARGE	TRANSFER					29,52
B SAN FRANCISCO; BARGE	TRANSFER					25,11
B SEATTLE; BARGE	TRANSFER					16,65
B NEW ORLEANS; BARGE	TRANSFER					14,95



NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

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PRIMARY MATERIAL BALANCE REPORT

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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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MATERIAL Cx COAL MED=RTU,MI-S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C MIDWEST	COAL	387.95	387.95-			10.78
C CENTRAL WEST	COAL	25.44	25.44-			11.35
C WESTERN NORTHERN GREAT PLAINS	COAL					4.73
C SOUTHWEST	COAL					5.42
T BOSTON; RAIL	TRANSFER					19.81
T NEW YORK; RAIL	TRANSFER					17.84
T BALTIMORE-PHIL.; RAIL	TRANSFER					16.23
T MIAMI; RAIL	TRANSFER					22.44
T PITTSBURGH; RAIL	TRANSFER					13.41
T ATLANTA; RAIL	TRANSFER					16.14
T CINCINNATI; RAIL	TRANSFER		105.97	105.97-		13.80
T DETROIT; RAIL	TRANSFER					16.19
T CHICAGO; RAIL	TRANSFER		142.33	142.33-		14.48
T ST. LOUIS; RAIL	TRANSFER		64.09	64.09-		12.79
T ST. PAUL-MINNAPL.; RAIL	TRANSFER		30.08	30.08-		17.12
T KANSAS CITY; RAIL	TRANSFER		25.44	25.44-		13.04
T HOUSTON; RAIL	TRANSFER					16.66
T DALLAS; RAIL	TRANSFER					14.67
T DENVER; RAIL	TRANSFER					15.68
T LOS ANGELES; RAIL	TRANSFER					28.39
T SAN FRANCISCO; RAIL	TRANSFER					28.59
T SEATTLE; RAIL	TRANSFER					30.28
T NEW ORLEANS; RAIL	TRANSFER					13.25
W BOSTON; BARGE	TRANSFER		45.48	45.48-		19.61
W NEW YORK; BARGE	TRANSFER					17.64
W BALTIMORE-PHIL.; BARGE	TRANSFER					16.48
W MIAMI; BARGE	TRANSFER					22.24
W PITTSBURGH; BARGE	TRANSFER					13.21
W CINCINNATI; BARGE	TRANSFER					13.60
W DETROIT; BARGE	TRANSFER					15.99
W CHICAGO; BARGE	TRANSFER					14.28
W ST. LOUIS; BARGE	TRANSFER		.00			12.59
W ST. PAUL-MINNAPL.; BARGE	TRANSFER					16.92
W KANSAS CITY; BARGE	TRANSFER					12.84
W HOUSTON; BARGE	TRANSFER					16.91
W LOS ANGELES; BARGE	TRANSFER					28.64
W SAN FRANCISCO; BARGE	TRANSFER					28.39
W SEATTLE; BARGE	TRANSFER					30.08
W NEW ORLEANS; BARGE	TRANSFER					13.05

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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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MATERIAL Cx COAL LO=RTU,LO-S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C WESTERN NORTHERN GREAT PLAINS	COAL	688.22	688.22-			5.84
C SOUTHWEST	COAL	21.10	21.10-			8.90
C ALASKA	COAL	.33	.33-			8.90
T BOSTON; RAIL	TRANSFER					7.99
T NEW YORK; RAIL	TRANSFER					26.21
T BALTIMORE-PHIL.; RAIL	TRANSFER					24.51
T MIAMI; RAIL	TRANSFER					23.13
T PITTSBURGH; RAIL	TRANSFER					28.37
T ATLANTA; RAIL	TRANSFER					25.10
T CINCINNATI; RAIL	TRANSFER					24.84
T DETROIT; RAIL	TRANSFER		51.80	51.80-		22.26
T CHICAGO; RAIL	TRANSFER		43.84	43.84-		23.26
T ST. LOUIS; RAIL	TRANSFER		230.05	230.05-		20.71
T ST. PAUL-MINNAPL.; RAIL	TRANSFER		102.30	102.30-		19.09
T KANSAS CITY; RAIL	TRANSFER		13.49	13.49-		18.83
T HOUSTON; RAIL	TRANSFER		40.21	40.21-		16.48
T DALLAS; RAIL	TRANSFER		17.60	17.60-		20.83
T DENVER; RAIL	TRANSFER		41.06	41.06-		18.35
T LOS ANGELES; RAIL	TRANSFER		96.92	96.92-		10.51
T SAN FRANCISCO; RAIL	TRANSFER					18.79
T SEATTLE; RAIL	TRANSFER					23.20
T NEW ORLEANS; RAIL	TRANSFER		.33	.33-		21.28
W BOSTON; BARGE	TRANSFER		72.06	72.06-		26.01
W NEW YORK; BARGE	TRANSFER					24.31
W BALTIMORE-PHIL.; BARGE	TRANSFER					23.01
W MIAMI; BARGE	TRANSFER					28.17
W PITTSBURGH; BARGE	TRANSFER					24.90
W CINCINNATI; BARGE	TRANSFER					22.06
W DETROIT; BARGE	TRANSFER					23.06
W CHICAGO; BARGE	TRANSFER					20.51
W ST. LOUIS; BARGE	TRANSFER					19.10
W ST. PAUL-MINNAPL.; BARGE	TRANSFER					18.63
W KANSAS CITY; BARGE	TRANSFER					16.73
W HOUSTON; BARGE	TRANSFER					20.63
W LOS ANGELES; BARGE	TRANSFER					18.59
W SAN FRANCISCO; BARGE	TRANSFER					23.00
W SEATTLE; BARGE	TRANSFER					17.68
W NEW ORLEANS; BARGE	TRANSFER					21.08

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... 813

MATERIAL C1 COAL VLO=BTU,LU=S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE (75\$)
C EASTERN NORTHERN GREAT PLAINS	COAL	68.99	68.99-			8.16
C WESTERN NORTHERN GREAT PLAINS	COAL					3.01
C SOUTHWEST	COAL					3.45
T BOSTON; RAIL	TRANSFER					19.32
T NEW YORK; RAIL	TRANSFER					18.06
T BALTIMORE-PHIL.; RAIL	TRANSFER					17.04
T MIAMI; RAIL	TRANSFER					20.91
T PITTSBURGH; RAIL	TRANSFER					15.52
T ATLANTA; RAIL	TRANSFER					22.08
T CINCINNATI; RAIL	TRANSFER					17.48
T DETROIT; RAIL	TRANSFER					17.14
T CHICAGO; RAIL	TRANSFER					15.27
T ST. LOUIS; RAIL	TRANSFER					16.33
T ST. PAUL-MINNAPL.; RAIL	TRANSFER		68.99	68.99-		13.80
T KANSAS CITY; RAIL	TRANSFER					13.72
T HOUSTON; RAIL	TRANSFER					15.35
T DALLAS; RAIL	TRANSFER					14.33
T DENVER; RAIL	TRANSFER					7.75
T LOS ANGELES; RAIL	TRANSFER					12.17
T SAN FRANCISCO; RAIL	TRANSFER					11.92
T SEATTLE; RAIL	TRANSFER					5.69
T NEW ORLEANS; RAIL	TRANSFER					17.45
M BOSTON; BARGE	TRANSFER					19.12
M NEW YORK; BARGE	TRANSFER					17.86
M BALTIMORE-PHIL.; BARGE	TRANSFER					16.84
M MIAMI; BARGE	TRANSFER					20.71
M PITTSBURGH; BARGE	TRANSFER					15.77
M CINCINNATI; BARGE	TRANSFER					17.28
M DETROIT; BARGE	TRANSFER					16.94
M CHICAGO; BARGE	TRANSFER					15.52
M ST. LOUIS; BARGE	TRANSFER					16.13
M ST. PAUL-MINNAPL.; BARGE	TRANSFER					14.05
M KANSAS CITY; BARGE	TRANSFER					13.76
M HOUSTON; BARGE	TRANSFER					15.15
M LOS ANGELES; BARGE	TRANSFER					11.97
M SAN FRANCISCO; BARGE	TRANSFER					11.72
M SEATTLE; BARGE	TRANSFER					5.49
M NEW ORLEANS; BARGE	TRANSFER					17.70

DIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... 813

MATERIAL C2 COAL MED=BTU,LU=S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE (75\$)
C MIDWEST	COAL	39.04	39.04-			22.78
C WESTERN NORTHERN GREAT PLAINS	COAL					4.73
C ROCKIES	COAL	34.66	34.66-			10.03
C SOUTHWEST	COAL					5.42
T BOSTON; RAIL	TRANSFER					30.37
T NEW YORK; RAIL	TRANSFER					28.40
T BALTIMORE-PHIL.; RAIL	TRANSFER					30.15
T MIAMI; RAIL	TRANSFER					32.87
T PITTSBURGH; RAIL	TRANSFER					27.07
T ATLANTA; RAIL	TRANSFER					26.71
T CINCINNATI; RAIL	TRANSFER		39.04	39.04-		25.80
T DETROIT; RAIL	TRANSFER		32.13	32.13-		26.96
T CHICAGO; RAIL	TRANSFER					24.41
T ST. LOUIS; RAIL	TRANSFER					22.79
T ST. PAUL-MINNAPL.; RAIL	TRANSFER					22.53
T KANSAS CITY; RAIL	TRANSFER					20.18
T HOUSTON; RAIL	TRANSFER					24.14
T DALLAS; RAIL	TRANSFER					21.66
T DENVER; RAIL	TRANSFER					14.21
T LOS ANGELES; RAIL	TRANSFER		1.69	1.69-		21.77
T SAN FRANCISCO; RAIL	TRANSFER		.84	.84-		22.12
T SEATTLE; RAIL	TRANSFER					20.72
T NEW ORLEANS; RAIL	TRANSFER					24.66
M BOSTON; BARGE	TRANSFER					30.17
M NEW YORK; BARGE	TRANSFER					28.20
M BALTIMORE-PHIL.; BARGE	TRANSFER					30.40
M MIAMI; BARGE	TRANSFER					32.67
M PITTSBURGH; BARGE	TRANSFER					26.87
M CINCINNATI; BARGE	TRANSFER					25.60
M DETROIT; BARGE	TRANSFER					26.76
M CHICAGO; BARGE	TRANSFER					24.21
M ST. LOUIS; BARGE	TRANSFER					22.59
M ST. PAUL-MINNAPL.; BARGE	TRANSFER					22.33
M KANSAS CITY; BARGE	TRANSFER					20.22
M HOUSTON; BARGE	TRANSFER					23.94
M LOS ANGELES; BARGE	TRANSFER					21.57
M SAN FRANCISCO; BARGE	TRANSFER					21.92
M SEATTLE; BARGE	TRANSFER					20.52
M NEW ORLEANS; BARGE	TRANSFER					24.57

DIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.



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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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MATERIAL C1 COAL HI-BTU,LO-S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C NORTHERN APPLACHIAN	COAL	41,64	41,64-			24,94
C CENTRAL APPLACHIAN	COAL	386,57	386,57-			24,15
C SOUTHERN APPLACHIAN	COAL	23,29	23,29-			25,98
C WESTERN NORTHERN GREAT PLAINS	COAL					5,16
C SOUTHWEST	COAL					5,92
T BOSTON; RAIL	TRANSFER		7,67	7,67-		33,14
T NEW YORK; RAIL	TRANSFER		114,02	114,02-		30,99
T BALTIMORE-PHIL.; RAIL	TRANSFER		164,96	164,96-		29,24
T MIAMI; RAIL	TRANSFER		32,47	32,47-		35,87
T PITTSBURGH; RAIL	TRANSFER		17,81	17,81-		26,63
T ATLANTA; RAIL	TRANSFER		54,11	54,11-		29,14
T CINCINNATI; RAIL	TRANSFER		36,63	36,63-		28,15
T DETROIT; RAIL	TRANSFER		23,84	23,84-		29,41
T CHICAGO; RAIL	TRANSFER					26,86
T ST. LOUIS; RAIL	TRANSFER					24,98
T ST. PAUL-MINNAPL.; RAIL	TRANSFER					27,14
T KANSAS CITY; RAIL	TRANSFER					22,63
T HOUSTON; RAIL	TRANSFER					26,34
T DALLAS; RAIL	TRANSFER					23,86
T DENVER; RAIL	TRANSFER					28,60
T LOS ANGELES; RAIL	TRANSFER					37,58
T SAN FRANCISCO; RAIL	TRANSFER					41,51
T SEATTLE; RAIL	TRANSFER					33,05
T NEW ORLEANS; RAIL	TRANSFER					26,91
W BOSTON; BARGE	TRANSFER					32,94
W NEW YORK; BARGE	TRANSFER					30,79
W BALTIMORE-PHIL.; BARGE	TRANSFER					29,49
W MIAMI; BARGE	TRANSFER					35,67
W PITTSBURGH; BARGE	TRANSFER					26,43
W CINCINNATI; BARGE	TRANSFER					27,95
W DETROIT; BARGE	TRANSFER					29,21
W CHICAGO; BARGE	TRANSFER					26,92
W ST. LOUIS; BARGE	TRANSFER					25,23
W ST. PAUL-MINNAPL.; BARGE	TRANSFER					26,94
W KANSAS CITY; BARGE	TRANSFER					22,86
W HOUSTON; BARGE	TRANSFER					26,14
W LOS ANGELES; BARGE	TRANSFER					37,38
W SAN FRANCISCO; BARGE	TRANSFER					41,31
W SEATTLE; BARGE	TRANSFER					32,65
W NEW ORLEANS; BARGE	TRANSFER					27,16

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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MATERIAL C0 COAL VLO-BTU,HI-S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C GULF	COAL					
C EASTERN NORTHERN GREAT PLAINS	COAL	56,46	56,46-			6,61
C WESTERN NORTHERN GREAT PLAINS	COAL	16,71	16,71-			5,25
C SOUTHWEST	COAL					3,01
T BOSTON; RAIL	TRANSFER					3,45
T NEW YORK; RAIL	TRANSFER					12,60
T BALTIMORE-PHIL.; RAIL	TRANSFER					11,35
T MIAMI; RAIL	TRANSFER					10,33
T PITTSBURGH; RAIL	TRANSFER					14,19
T ATLANTA; RAIL	TRANSFER					8,53
T CINCINNATI; RAIL	TRANSFER					10,27
T DETROIT; RAIL	TRANSFER					10,65
T CHICAGO; RAIL	TRANSFER					11,31
T ST. LOUIS; RAIL	TRANSFER					9,21
T ST. PAUL-MINNAPL.; RAIL	TRANSFER					8,13
T KANSAS CITY; RAIL	TRANSFER		16,71	16,71-		10,89
T HOUSTON; RAIL	TRANSFER					8,29
T DALLAS; RAIL	TRANSFER		16,94	16,94-		10,16
T DENVER; RAIL	TRANSFER		39,52	39,52-		9,33
T LOS ANGELES; RAIL	TRANSFER					6,45
T SAN FRANCISCO; RAIL	TRANSFER					19,16
T SEATTLE; RAIL	TRANSFER					19,36
T NEW ORLEANS; RAIL	TRANSFER					19,53
W BOSTON; BARGE	TRANSFER					8,43
W NEW YORK; BARGE	TRANSFER					12,40
W BALTIMORE-PHIL.; BARGE	TRANSFER					11,15
W MIAMI; BARGE	TRANSFER					10,13
W PITTSBURGH; BARGE	TRANSFER					13,99
W CINCINNATI; BARGE	TRANSFER					8,78
W DETROIT; BARGE	TRANSFER					10,45
W CHICAGO; BARGE	TRANSFER					11,11
W ST. LOUIS; BARGE	TRANSFER					9,01
W ST. PAUL-MINNAPL.; BARGE	TRANSFER					7,93
W KANSAS CITY; BARGE	TRANSFER					10,69
W HOUSTON; BARGE	TRANSFER					8,54
W LOS ANGELES; BARGE	TRANSFER					10,41
W SAN FRANCISCO; BARGE	TRANSFER					18,96
W SEATTLE; BARGE	TRANSFER					19,16
W NEW ORLEANS; BARGE	TRANSFER					19,33
						8,68

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL CV COAL LO-BTU,MI-S(MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C WESTERN NORTHERN GREAT PLAINS	COAL	61.95	43.14-	18.82-		4.08
C SOUTHWEST	COAL	35.25	16.44-	18.82-		4.68
C NORTHWEST	COAL	10.96	10.96-			5.95
T BOSTON; RAIL	TRANSFER					17.10
T NEW YORK; RAIL	TRANSFER					15.39
T BALTIMORE-PHIL.; RAIL	TRANSFER					14.01
T MIAMI; RAIL	TRANSFER					19.25
T PITTSBURGH; RAIL	TRANSFER					11.57
T ATLANTA; RAIL	TRANSFER					13.93
T CINCINNATI; RAIL	TRANSFER					13.69
T DETROIT; RAIL	TRANSFER					14.35
T CHICAGO; RAIL	TRANSFER					15.96
T ST. LOUIS; RAIL	TRANSFER					14.10
T ST. PAUL-MINNAPL.; RAIL	TRANSFER					14.77
T KANSAS CITY; RAIL	TRANSFER					11.73
T HOUSTON; RAIL	TRANSFER					13.79
T DALLAS; RAIL	TRANSFER					14.13
T DENVER; RAIL	TRANSFER		43.14	43.14-		8.75
T LOS ANGELES; RAIL	TRANSFER		16.44	16.44-		16.51
T SAN FRANCISCO; RAIL	TRANSFER		8.22	8.22-		16.18
T SEATTLE; RAIL	TRANSFER		2.74	2.74-		7.72
T NEW ORLEANS; RAIL	TRANSFER					16.53
* BOSTON; BARGE	TRANSFER					16.90
* NEW YORK; BARGE	TRANSFER					15.19
* BALTIMORE-PHIL.; BARGE	TRANSFER					13.92
* MIAMI; BARGE	TRANSFER					19.05
* PITTSBURGH; BARGE	TRANSFER					11.82
* CINCINNATI; BARGE	TRANSFER					13.49
* DETROIT; BARGE	TRANSFER					14.55
* CHICAGO; BARGE	TRANSFER					15.76
* ST. LOUIS; BARGE	TRANSFER					14.35
* ST. PAUL-MINNAPL.; BARGE	TRANSFER					14.57
* KANSAS CITY; BARGE	TRANSFER					11.98
* HOUSTON; BARGE	TRANSFER					14.04
* LOS ANGELES; BARGE	TRANSFER					16.31
* SAN FRANCISCO; BARGE	TRANSFER					16.43
* SEATTLE; BARGE	TRANSFER					7.52
* NEW ORLEANS; BARGE	TRANSFER					16.33

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL CM COAL, METALLURGICAL (MT/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
C NORTHERN APPLACHIAN	COAL					
C CENTRAL APPLACHIAN	COAL	55.62	55.62-			
C SOUTHERN APPLACHIAN	COAL	275.76	275.77-			21.15
C CENTRAL WEST	COAL	30.55	30.55-			20.59
C ROCKIES	COAL					19.27
D NORTH EAST	DEMAND	16.71	16.71-			20.52
D MID ATLANTIC	DEMAND					11.97
D SOUTH ATLANTIC	DEMAND				.37	56.71
D EAST NORTH CENTRAL	DEMAND				17.93	31.58
D EAST SOUTH CENTRAL	DEMAND				17.93	28.39
D WEST NORTH CENTRAL	DEMAND				75.00	27.39
D WEST SOUTH CENTRAL	DEMAND				29.27	27.79
D MOUNTAIN	DEMAND				2.01	25.80
D PACIFIC	DEMAND				1.83	26.00
T BOSTON; RAIL	TRANSFER				5.85	25.95
T NEW YORK; RAIL	TRANSFER				3.66	18.15
T BALTIMORE-PHIL.; RAIL	TRANSFER				3.66	26.15
T MIAMI; RAIL	TRANSFER				.37	26.08
T PITTSBURGH; RAIL	TRANSFER		36.86			29.58
T ATLANTA; RAIL	TRANSFER		208.10			27.48
T CINCINNATI; RAIL	TRANSFER		2.69		186.00-	25.68
T DETROIT; RAIL	TRANSFER		8.51			29.16
T CHICAGO; RAIL	TRANSFER		4.48			22.84
T ST. LOUIS; RAIL	TRANSFER		25.06			22.43
T ST. PAUL-MINNAPL.; RAIL	TRANSFER		22.50			24.59
T KANSAS CITY; RAIL	TRANSFER		37.50			25.62
T HOUSTON; RAIL	TRANSFER		8.21			26.35
T DALLAS; RAIL	TRANSFER		.81			24.66
T DENVER; RAIL	TRANSFER		.50			24.47
T LOS ANGELES; RAIL	TRANSFER		.55			22.12
T SAN FRANCISCO; RAIL	TRANSFER		1.28			26.03
T SEATTLE; RAIL	TRANSFER		5.86			23.99
T NEW ORLEANS; RAIL	TRANSFER		2.20			16.15
* BOSTON; BARGE	TRANSFER		2.20			23.71
* NEW YORK; BARGE	TRANSFER		1.10			24.06
* BALTIMORE-PHIL.; BARGE	TRANSFER		.37			26.37
* MIAMI; BARGE	TRANSFER		11.71			22.62
* PITTSBURGH; BARGE	TRANSFER					29.38
* CINCINNATI; BARGE	TRANSFER					27.23
* DETROIT; BARGE	TRANSFER					25.93
* CHICAGO; BARGE	TRANSFER					28.96
* ST. LOUIS; BARGE	TRANSFER					22.72
* ST. PAUL-MINNAPL.; BARGE	TRANSFER					24.39
* KANSAS CITY; BARGE	TRANSFER		.00			25.42
* HOUSTON; BARGE	TRANSFER					26.15
* LOS ANGELES; BARGE	TRANSFER					24.46
* SAN FRANCISCO; BARGE	TRANSFER					24.27
* SEATTLE; BARGE	TRANSFER					22.09
* NEW ORLEANS; BARGE	TRANSFER					25.83
						23.51
						23.86
						26.17
						22.42

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL GA GASOLINE, ALL GRADES(MB/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
F OTHER FOREIGN LOCATIONS	IMPORTS		4,78-			14,57
F CARIBBEAN/C.AM.	IMPORTS		44,00-			14,57
R PAD1A	REFINERY		738,26-	738,26		14,53
R PAD2A	REFINERY		1559,64-	1559,64		14,27
R PAD3	REFINERY		2767,53-	2767,53		14,13
R PAD4	REFINERY		373,96-	373,96		14,53
R PAD5	REFINERY		1506,43-	1506,43		14,53
R PAD1B	REFINERY		151,83-	151,83		14,48
R PAD2B	REFINERY		389,91-	389,91		14,33
U NORTH EAST	DEMAND				333,24	14,57
U MID ATLANTIC	DEMAND				952,22	14,54
U SOUTH ATLANTIC	DEMAND				1168,42	14,41
U EAST NORTH CENTRAL	DEMAND				1296,19	14,33
U EAST SOUTH CENTRAL	DEMAND				484,07	14,36
U WEST NORTH CENTRAL	DEMAND				643,72	14,34
U WEST SOUTH CENTRAL	DEMAND				778,09	14,14
U MOUNTAIN	DEMAND				373,96	14,56
U PACIFIC	DEMAND				1506,43	14,54

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1425021

PRIMARY MATERIAL BALANCE REPORT

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL DS DISTILLATE, ALL GRADES(MB/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
F OTHER FOREIGN LOCATIONS	IMPORTS		4,78-			14,50
F CARIBBEAN/C.AM.	IMPORTS		121,00-			14,50
R PAD1A	REFINERY		723,48-	723,48		14,46
R PAD2A	REFINERY		1287,26-	1287,26		14,20
R PAD3	REFINERY		2219,89-	2219,89		14,06
R PAD4	REFINERY		230,56-	230,56		13,89
R PAD5	REFINERY		1351,57-	1351,57		13,35
R PAD1B	REFINERY		180,87-	180,87		14,41
R PAD2B	REFINERY		194,50-	194,50		14,13
U NORTH EAST	UTILITY		2,56	2,56-		14,50
U MID ATLANTIC	UTILITY		,26	,26-		14,47
U SOUTH ATLANTIC	UTILITY		2,66	2,66-		14,34
U EAST NORTH CENTRAL	UTILITY		40,63	40,63-		14,26
U EAST SOUTH CENTRAL	UTILITY		23,38	23,38-		14,29
U WEST NORTH CENTRAL	UTILITY		14,52	14,52-		14,15
U WEST SOUTH CENTRAL	UTILITY		32,60	32,60-		14,07
U MOUNTAIN	UTILITY		4,75	4,75-		13,92
U PACIFIC	UTILITY		67,32	67,32-		13,36
U NORTH EAST	DEMAND				525,87	14,50
U MID ATLANTIC	DEMAND				1217,58	14,47
U SOUTH ATLANTIC	DEMAND				911,34	14,34
U EAST NORTH CENTRAL	DEMAND				1007,63	14,26
U EAST SOUTH CENTRAL	DEMAND				255,55	14,29
U WEST NORTH CENTRAL	DEMAND				407,18	14,15
U WEST SOUTH CENTRAL	DEMAND				556,92	14,07
U MOUNTAIN	DEMAND				342,80	13,92
U PACIFIC	DEMAND				900,35	13,36

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL OT OTHER REFINED PETROLEUM(MB/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
F OTHER FOREIGN LOCATIONS	IMPORTS					
F CARIBBEAN/C.AM.	IMPORTS		81,30-			
R PAD1A	REFINERY		165,00-			16,39
R PAD2A	REFINERY		443,99-	1238,01		16,39
R PAD3	REFINERY		964,13-	964,13		16,38
R PAD4	REFINERY		1374,08-	1374,08		16,13
R PAD5	REFINERY		89,57-	89,57		16,06
R PAD1B	REFINERY		678,96-	678,96		15,88
R PAD2B	REFINERY		88,94-	88,94		15,28
U NORTH EAST	DEMAND					16,33
U MID ATLANTIC	DEMAND					16,12
U SOUTH ATLANTIC	DEMAND				119,96	16,39
U EAST NORTH CENTRAL	DEMAND				713,57	16,39
U EAST SOUTH CENTRAL	DEMAND				537,75	16,33
U WEST NORTH CENTRAL	DEMAND				773,94	16,19
U WEST SOUTH CENTRAL	DEMAND				295,30	16,29
U MOUNTAIN	DEMAND				351,49	16,13
U PACIFIC	DEMAND				820,72	16,07
	DEMAND				143,98	15,84
	DEMAND				419,39	15,29

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

PRIMARY MATERIAL BALANCE REPORT

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DBS1215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL RS RESIDUAL, ALL GRADES(MB/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(75\$)
F OTHER FOREIGN LOCATIONS	IMPORTS					
F CARIBBEAN/C.AM.	IMPORTS		4,78-			14,45
R PAD1A	REFINERY		770,00-			14,45
R PAD2A	REFINERY		164,94-	164,94		14,43
R PAD3	REFINERY		596,43-	596,43		13,47
R PAD4	REFINERY		361,58-	361,58		13,96
R PAD5	REFINERY		42,53-	42,53		12,00
R PAD1B	REFINERY		490,70-	490,70		12,65
R PAD2B	REFINERY		41,23-	41,23		14,38
U NORTH EAST	UTILITY		227,79-	227,79		13,40
U MID ATLANTIC	UTILITY		165,10	165,10-		14,45
U SOUTH ATLANTIC	UTILITY		227,54	227,54-		14,45
U EAST NORTH CENTRAL	UTILITY		244,87	244,87-		14,23
U EAST SOUTH CENTRAL	UTILITY		68,19	68,19-		14,05
U WEST NORTH CENTRAL	UTILITY		,81	,81-		14,04
U WEST SOUTH CENTRAL	UTILITY		1,17	1,17-		13,41
U MOUNTAIN	UTILITY					11,77
U PACIFIC	UTILITY					12,99
U NORTH EAST	DEMAND					12,66
U MID ATLANTIC	DEMAND					14,45
U SOUTH ATLANTIC	DEMAND				306,95	14,45
U EAST NORTH CENTRAL	DEMAND				644,47	14,45
U EAST SOUTH CENTRAL	DEMAND				264,01	14,23
U WEST NORTH CENTRAL	DEMAND				183,24	14,05
U WEST SOUTH CENTRAL	DEMAND				23,81	14,04
U MOUNTAIN	DEMAND				49,95	13,41
U PACIFIC	DEMAND				62,20	13,97
	DEMAND				30,70	12,99
	DEMAND				134,67	12,66

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.



1985 REFERENCE CASE MODEL, DEMAND SCENARIO, DATE & REVISION, IMPORTS

MATERIAL OL OIL, AGGREGATE FOREIGN (MB/CD)

Table with columns: LOCATION, TYPE, PRODUCTION, TRANSFER IN, CONVERSION OPERATIONS, DEMAND SATISFIED, MARGINAL PRICE (75\$)

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

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1985 REFERENCE CASE MODEL, DEMAND SCENARIO, DATE & REVISION, IMPORTS

MATERIAL NG NATURAL GAS(MMSCF/CD)

Table with columns: LOCATION, TYPE, PRODUCTION, TRANSFER IN, CONVERSION OPERATIONS, DEMAND SATISFIED, MARGINAL PRICE (75\$)

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE MODEL, DEMAND SCENARIO, DATE & REVISION, IMPORTS

MATERIAL EL ELECTRICITY(MMKWH/CD)

Table with columns: LOCATION, TYPE, PRODUCTION, TRANSFER IN, CONVERSION OPERATIONS, DEMAND SATISFIED, MARGINAL PRICE (75\$)

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE MODEL, DEMAND SCENARIO, DATE & REVISION, IMPORTS

MATERIAL E2 ELEC INTER (MMKWH/CD)

Table with columns: LOCATION, TYPE, PRODUCTION, TRANSFER IN, CONVERSION OPERATIONS, DEMAND SATISFIED, MARGINAL PRICE (75\$)

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

1985 REFERENCE CASE MODEL, DEMAND SCENARIO, DATE & REVISION, IMPORTS

MATERIAL E1 ELEC BASE (MMKWH/CD)

Table with columns: LOCATION, TYPE, PRODUCTION, TRANSFER IN, CONVERSION OPERATIONS, DEMAND SATISFIED, MARGINAL PRICE (75\$)

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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MATERIAL E3 ELEC PEAK (MMKWH/CD)

LOCATION	TYPE	PRODUCTION	TRANSFER IN	CONVERSION OPERATIONS	DEMAND SATISFIED	MARGINAL PRICE(\$/58)
U NORTH EAST	UTILITY			.00-		98.73
U MID ATLANTIC	UTILITY			.00-		68.72
U SOUTH ATLANTIC	UTILITY			.00-		98.39
U EAST NORTH CENTRAL	UTILITY			.00-		95.12
U EAST SOUTH CENTRAL	UTILITY			.00-		95.17
U WEST NORTH CENTRAL	UTILITY			.00-		94.68
U WEST SOUTH CENTRAL	UTILITY			.00-		94.73
U MOUNTAIN	UTILITY			.00-		114.47
U PACIFIC	UTILITY			.00-		113.33

OIL= MB/CD, GAS= MMSCF/CD, COAL=MT/CD, ELECT= MMKWH/CD

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF THE PRODUCT IN THE REGION.

SUMMARY OF CONVERSION YIELDS, BY REGION

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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
 -----

REFINING DISTRICTS

YIELDS	R5	R6	R7
GASOLINE, ALL GRADES(MB/CD)	1506.4	151.8	589.9
DISTILLATE, ALL GRADES(MB/CD)	1351.6	180.9	194.5
OTHER REFINED PETROLEUM(MB/CD)	679.0	88.9	290.2
RESIDUAL, ALL GRADES(MB/CD)	490.7	41.2	227.8
WEST COAST BLEND(MB/CD)	1176.5-		
HEAVY CRUDE, PADD2(MB/CD)			9.0-
HEAVY CRUDE, PADD5(MB/CD)	129.0-		
WEST TEXAS MIX(MB/CD)			33.2-
OKLAHOMA MIX(MB/CD)			440.9-
ALASKAN SL, BROOKS RANGE(MB/CD)	328.4-		
PACIFIC OFFSHORE(MB/CD)	37.1-		
ALASKAN NORTH SLOPE PROVEN(MB/CD)	2000.0-		
INDIGENOUS I1(MB/CD)		120.5-	
OIL, AGGREGATE FOREIGN (MB/CD)		329.5-	
WYOMING MIX(MB/CD)			519.5-
CONDENSATE(MB/CD)	182.3-	.6-	30.2-
GAS LIQUIDS(MB/CD)	19.0-	2.4-	
BUTANE/PROPANE(MB/CD)	17.5-	.2-	25.6-

LEGEND

COLUMN	DESCRIPTION
R5	R PAD5
R6	R PAD18
R7	R PAD28

SUMMARY OF CONVERSION YIELDS, BY REGION

-----  
 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
 -----

REFINING DISTRICTS

YIELDS	R1	R2	R3	R4
GASOLINE, ALL GRADES(MB/CD)	733.3	1559.6	2767.5	374.0
DISTILLATE, ALL GRADES(MB/CD)	723.5	1287.3	2219.9	230.6
OTHER REFINED PETROLEUM(MB/CD)	1238.0	964.1	1374.1	89.6
RESIDUAL, ALL GRADES(MB/CD)	164.9	596.4	361.6	42.5
SHALE OIL(MB/CD)		300.0-		
HEAVY CRUDE, PADD2(MB/CD)		78.0-		
HEAVY CRUDE, PADD3(MB/CD)			82.5-	
LOUISIANA OFFSHORE(MB/CD)			1418.7-	
EAST TEXAS MIX(MB/CD)			284.2-	
WEST TEXAS MIX(MB/CD)			1667.4-	
ALASKAN SL, BROOKS RANGE(MB/CD)				4.1-
PACIFIC OFFSHORE(MB/CD)				603.9-
ALASKAN NORTH SLOPE PROVEN(MB/CD)			48.0-	
TEXAS GULF(MB/CD)			1136.8-	
INDIGENOUS I1(MB/CD)	138.4-	27.1-		
INDIGENOUS I2(MB/CD)		274.5-		
OIL, AGGREGATE FOREIGN (MB/CD)	867.6-	3271.2-	196.5-	
WYOMING MIX(MB/CD)		59.6-		
LOUISIANA ONSHORE(MB/CD)			1364.1-	
CONDENSATE(MB/CD)	55.0-	20.4-		1.6-
GAS LIQUIDS(MB/CD)	87.7-	100.3-		111.8-
BUTANE/PROPANE(MB/CD)	883.2-	102.3-		71.2-

LEGEND

COLUMN	DESCRIPTION
R1	R PAD1A
R2	R PAD2A
R3	R PAD3
R4	R PAD4

SUMMARY OF CONVERSION YIELDS, BY REGION

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 1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13  
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UTILITY REGIONS

YIELDS	U1	U2	U3	U4
DISTILLATE, ALL GRADES(MB/CD)	2.6-	.3-	2.7-	40.6-
RESIDUAL, ALL GRADES(MB/CD)	165.1-	227.5-	244.9-	68.2-
COAL, ALL MI-S(MT-EQUIV/CD)	35.5-	179.8-	244.9-	278.4-
COAL, ALL LU-S(MT-EQUIV/CD)	7.1-	126.7-	153.9-	226.9-
NATURAL GAS(MMSCF/CD)	67.0-	637.7-	334.2-	417.2-
ELECTRICITY(MMKWH/CD)	334.6	1282.3	1517.8	1520.5
ELEC BASE (MMKWH/CD)	.0-	.0-	.0-	.0-
ELEC INTER (MMKWH/CD)	.0-	.0-	.0-	.0-
ELEC PEAK (MMKWH/CD)	.0-	.0-	.0-	.0-

LEGEND

COLUMN	DESCRIPTION
U1	U NORTH EAST
U2	U MID ATLANTIC
U3	U SOUTH ATLANTIC
U4	U EAST NORTH CENTRAL

1985 REFERENCE CASE  
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UTILITY REGIONS

YIELDS	U5	U6	U7	U8
DISTILLATE, ALL GRADES(MB/CD)	23.4-	14.5-	32.6-	4.7-
RESIDUAL, ALL GRADES(MB/CD)	.8-	1.2-		
COAL, ALL HI-S(MT-EQUIV/CD)	111.2-	99.5-	35.1-	36.4-
COAL, ALL LO-S(MT-EQUIV/CD)	88.0-	107.3-	48.5-	70.6-
NATURAL GAS(MMSCF/CD)	297.0-	287.1-	5201.0-	828.7-
ELECTRICITY(MMKWH/CD)	792.7	606.1	878.3	418.2
ELEC BASE (MMKWH/CD)	.0-	.0-	.0-	.0-
ELEC INTER (MMKWH/CD)	.0-	.0-	.0-	.0-
ELEC PEAK (MMKWH/CD)	.0-	.0-	.0-	.0-

LEGEND

COLUMN DESCRIPTION

U5 U EAST SOUTH CENTRAL  
 U6 U WEST NORTH CENTRAL  
 U7 U WEST SOUTH CENTRAL  
 U8 U MOUNTAIN

SUMMARY OF CONVERSION YIELDS, BY REGION

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
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 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

UTILITY REGIONS

YIELDS	U9
DISTILLATE, ALL GRADES(MB/CD)	67.3-
RESIDUAL, ALL GRADES(MB/CD)	292.3-
COAL, ALL HI-S(MT-EQUIV/CD)	23.1-
NATURAL GAS(MMSCF/CD)	22.5-
ELECTRICITY(MMKWH/CD)	948.5
ELEC BASE (MMKWH/CD)	.0-
ELEC INTER (MMKWH/CD)	.0-
ELEC PEAK (MMKWH/CD)	.0-

LEGEND

COLUMN DESCRIPTION

SUMMARY OF CONVERSION YIELDS, BY REGION

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
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 IMPORTS..... \$13

SHALE REGIONS

YIELDS	S1	S2	S3
SHALE OIL(MB/CD)	300.0		

LEGEND

COLUMN DESCRIPTION

S1 S SHALE REGION 1  
 S2 S SHALE REGION 2  
 S3 S SHALE REGION 3

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

TASK FORCE - NU1

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
NU010U	NORTH EAST	OPERATE NEW NUCLEAR		
NU020U	MID ATLANTIC	OPERATE NEW NUCLEAR	135.2	
NU030U	SOUTH ATLANTIC	OPERATE NEW NUCLEAR	440.5	3.982
NU040U	EAST NORTH CENTRAL	OPERATE NEW NUCLEAR	545.5	3.074
NU050U	EAST SOUTH CENTRAL	OPERATE NEW NUCLEAR	419.0	2.041
NU060U	WEST NORTH CENTRAL	OPERATE NEW NUCLEAR	410.1	2.408
NU070U	WEST SOUTH CENTRAL	OPERATE NEW NUCLEAR	82.1	1.165
NU080U	MOUNTAIN	OPERATE NEW NUCLEAR	293.8	1.334
NU090U	PACIFIC	OPERATE NEW NUCLEAR	89.1	1.606
NU010U	NORTH EAST	OPERATE NEW NUCLEAR	117.8	.820
NU020U	MID ATLANTIC	BUILD NEW NUCLEAR	133.2	.001
NU030U	SOUTH ATLANTIC	BUILD NEW NUCLEAR	440.5	
NU040U	EAST NORTH CENTRAL	BUILD NEW NUCLEAR	545.5	
NU050U	EAST SOUTH CENTRAL	BUILD NEW NUCLEAR	419.0	
NU060U	WEST NORTH CENTRAL	BUILD NEW NUCLEAR	410.1	
NU070U	WEST SOUTH CENTRAL	BUILD NEW NUCLEAR	82.1	
NU080U	MOUNTAIN	BUILD NEW NUCLEAR	293.8	
NU090U	PACIFIC	BUILD NEW NUCLEAR	89.1	
N2010U	NORTH EAST	OPERATE EXISTING NUCLEAR	117.8	
N2020U	MID ATLANTIC	OPERATE EXISTING NUCLEAR	81.6	13.400
N2030U	SOUTH ATLANTIC	OPERATE EXISTING NUCLEAR	160.8	12.492
N2040U	EAST NORTH CENTRAL	OPERATE EXISTING NUCLEAR	214.9	11.459
N2050U	EAST SOUTH CENTRAL	OPERATE EXISTING NUCLEAR	206.8	11.826
N2060U	WEST NORTH CENTRAL	OPERATE EXISTING NUCLEAR	52.7	10.583
N2070U	WEST SOUTH CENTRAL	OPERATE EXISTING NUCLEAR	81.1	10.752
N2080U	MOUNTAIN	OPERATE EXISTING NUCLEAR	20.4	11.024
N2090U	PACIFIC	OPERATE EXISTING NUCLEAR	7.9	10.238
			34.3	9.419

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF MMKWH/DAY OF NAMEPLATE CAPACITY. THE ACTUAL OUTPUT IN MMKWH/DAY CAN BE OBTAINED BY MULTIPLYING BY THE APPROPRIATE LOADFACTORS. THE PRICE IS THE MARGINAL VALUE NET OF ALL COSTS OF AN ADDITIONAL UNIT OF NAMEPLATE CONVERSION CAPACITY.

CONVERSION ACTIVITY SUMMARY

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

TASK FORCE - UT1

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
200120	NORTH EAST	COAL W/ SCRUB OP NW BS		
200120	NORTH EAST	SCRUBBER(CL) BUILD	112.3	
200130	NORTH EAST	COAL W/O SCRUB BUILD	112.3	.001
200160	NORTH EAST	BUILD SIMPLE W DS	131.3	
200220	MID ATLANTIC	COAL W SCRUB OP NW BS	8.8	
200220	MID ATLANTIC	SCRUBBER(CL) BUILD	320.5	.001
200230	MID ATLANTIC	COAL W/O SCRUB BUILD	320.5	
200330	SOUTH ATLANTIC	COAL W/O SCRUB BUILD	777.6	
200420	EAST NORTH CENTRAL	BUILD SIMPLE W DS	559.8	
200420	EAST NORTH CENTRAL	COAL W SCRUB OP NW BS	11.5	
200430	EAST NORTH CENTRAL	SCRUBBER(CL) BUILD	535.9	
200460	EAST NORTH CENTRAL	COAL W/O SCRUB BUILD	535.9	.001
200530	EAST SOUTH CENTRAL	BUILD SIMPLE W DS	677.4	
200560	EAST SOUTH CENTRAL	COAL W/O SCRUB BUILD	225.4	
200630	WEST NORTH CENTRAL	BUILD SIMPLE W DS	210.8	
200630	WEST NORTH CENTRAL	CL W/O SCRUB OP NW BS	141.9	
200660	WEST NORTH CENTRAL	COAL W/O SCRUB BUILD	69.6	
200730	WEST SOUTH CENTRAL	BUILD SIMPLE W DS	320.8	.001
200730	WEST SOUTH CENTRAL	CL W/O SCRUB OP NW BS	34.2	
200760	WEST SOUTH CENTRAL	COAL W/O SCRUB BUILD	156.0	
200820	MOUNTAIN	BUILD SIMPLE W DS	156.0	.001
200830	MOUNTAIN	SCRUBBER(CL) BUILD	160.5	
200860	MOUNTAIN	COAL W/O SCRUB BUILD	13.9	
200920	PACIFIC	BUILD SIMPLE W DS	13.9	
200930	PACIFIC	SCRUBBER(CL) BUILD	23.5	
200960	PACIFIC	COAL W/O SCRUB BUILD	104.6	
200132	NORTH EAST	BUILD SIMPLE W DS	104.6	
200232	MID ATLANTIC	CL W/O SCRUB OP NW MD	18.6	
200332	SOUTH ATLANTIC	CL W/O SCRUB OP NW MD	19.0	.001
200432	EAST NORTH CENTRAL	CL W/O SCRUB OP NW MD	457.1	.001
200532	EAST SOUTH CENTRAL	CL W/O SCRUB OP NW MD	559.8	.001
200632	WEST NORTH CENTRAL	CL W/O SCRUB OP NW MD	141.4	.001
200822	MOUNTAIN	CL W/O SCRUB OP NW MD	210.8	.001
200922	MOUNTAIN	COAL W SCRUB OP NW MD	251.2	.001
200962	PACIFIC	COAL W SCRUB OP NW MD	13.9	.001
200163	NORTH EAST	SIMPLE W DS OP NW MD	104.6	.001
200363	SOUTH ATLANTIC	SIMPLE W DS OP NW PK	62.3	.001
200463	EAST NORTH CENTRAL	SIMPLE W DS OP NW PK	8.8	.001
200563	EAST SOUTH CENTRAL	SIMPLE W DS OP NW PK	11.5	.001
200663	WEST NORTH CENTRAL	SIMPLE W DS OP NW PK	225.4	.001
200763	WEST SOUTH CENTRAL	SIMPLE W DS OP NW PK	141.9	.001
200863	MOUNTAIN	SIMPLE W DS OP NW PK	34.2	.001
200963	PACIFIC	SIMPLE W DS OP NW PK	160.5	.001
			23.5	.001
			124.4	.001



UNIT	REGION	MODE	QTY	PRICE
90U290	MID ATLANTIC	BUILD HYDRO	169.4	
90U390	SOUTH ATLANTIC	BUILD HYDRO	157.2	
90U590	EAST SOUTH CENTRAL	BUILD HYDRO	27.6	
90U690	WEST NORTH CENTRAL	BUILD HYDRO	14.4	
90U790	WEST SOUTH CENTRAL	BUILD HYDRO	12.0	
90U890	MOUNTAIN	BUILD HYDRO	26.4	
90U990	PACIFIC	BUILD HYDRO	272.5	
90U991	PACIFIC	HYDRO OP NH BS	219.1	.001
90U392	SOUTH ATLANTIC	HYDRO OP NH MD	18.3	.001
90U592	EAST SOUTH CENTRAL	HYDRO OP NH MD	4.2	.001
90U792	WEST SOUTH CENTRAL	HYDRO OP NH MD	1.5	.001
90U892	MOUNTAIN	HYDRO OP NH MD	20.4	.001
90U293	MID ATLANTIC	HYDRO OP NH PK	169.4	.001
90U393	SOUTH ATLANTIC	HYDRO OP NH PK	139.0	.001
90U593	EAST SOUTH CENTRAL	HYDRO OP NH PK	23.4	.001
90U693	WEST NORTH CENTRAL	HYDRO OP NH PK	14.4	.001
90U793	WEST SOUTH CENTRAL	HYDRO OP NH PK	10.6	.001
90U893	MOUNTAIN	HYDRO OP NH PK	6.0	.001
90U993	PACIFIC	HYDRO OP NH PK	53.4	.001

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF MMKWH/DAY OF NAMEPLATE CAPACITY. THE ACTUAL OUTPUT IN MMKWH/DAY CAN BE OBTAINED BY MULTIPLYING BY THE APPROPRIATE LOADFACTORS. THE PRICE IS THE MARGINAL VALUE NET OF ALL COSTS OF AN ADDITIONAL UNIT OF NAMEPLATE CONVERSION CAPACITY.

CONVERSION ACTIVITY SUMMARY

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DB51215
DATE & REVISION	DEC15-1
IMPORTS	\$13

TASK FORCE - UUI

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
54U159	NORTH EAST	GAS TURBINE OP EX PK	30.8	2,410
54U259	MID ATLANTIC	GAS TURBINE OP EX PK	110.7	.010
54U359	SOUTH ATLANTIC	GAS TURBINE OP EX PK	232.7	2,604
54U459	EAST NORTH CENTRAL	GAS TURBINE OP EX PK	126.9	2,455
54U559	EAST SOUTH CENTRAL	GAS TURBINE OP EX PK	40.4	2,629
54U659	WEST NORTH CENTRAL	GAS TURBINE OP EX PK	59.1	2,557
54U759	WEST SOUTH CENTRAL	GAS TURBINE OP EX PK	7.2	2,616
54U859	MOUNTAIN	GAS TURBINE OP EX PK	71.2	2,541
54U959	PACIFIC	GAS TURBINE OP EX PK	20.7	2,307
34U737	WEST SOUTH CENTRAL	CL W/O SCRUB OP EX BS	12.5	6,051
34U837	MOUNTAIN	CL W/O SCRUB OP EX BS	173.1	6,381
44U147	NORTH EAST	COAL ACCEP TBL OP EX BS	5.9	9,154
44U247	MID ATLANTIC	COAL ACCEP TBL OP EX BS	246.1	9,172
44U347	SOUTH ATLANTIC	COAL ACCEP TBL OP EX BS	736.5	8,054
44U447	EAST NORTH CENTRAL	COAL ACCEP TBL OP EX BS	356.7	9,185
44U547	EAST SOUTH CENTRAL	COAL ACCEP TBL OP EX BS	310.6	8,288
44U647	WEST NORTH CENTRAL	COAL ACCEP TBL OP EX BS	324.9	8,142
44U747	WEST SOUTH CENTRAL	COAL ACCEP TBL OP EX BS	114.6	8,265
44U847	MOUNTAIN	COAL ACCEP TBL OP EX BS	84.9	9,022
84U787	WEST SOUTH CENTRAL	GAS FED STM OP EX MD	297.2	1,120
14U118	NORTH EAST	OIL-FED STM OP EX MD	269.5	2,671
14U218	MID ATLANTIC	OIL-FED STM OP EX MD	371.4	2,199
14U318	SOUTH ATLANTIC	OIL-FED STM OP EX MD	399.7	2,013
14U418	EAST NORTH CENTRAL	OIL-FED STM OP EX MD	111.3	2,097
14U518	EAST SOUTH CENTRAL	OIL-FED STM OP EX MD	1.3	1,804
14U618	WEST NORTH CENTRAL	OIL-FED STM OP EX MD	1.4	4,143
14U918	PACIFIC	OIL-FED STM OP EX MD	477.2	6,185
34U138	NORTH EAST	CL W/O SCRUB OP EX MD	23.7	6,216
34U238	MID ATLANTIC	CL W/O SCRUB OP EX MD	314.1	6,213
34U338	SOUTH ATLANTIC	CL W/O SCRUB OP EX MD	377.2	6,243
34U438	EAST NORTH CENTRAL	CL W/O SCRUB OP EX MD	1198.7	6,238
34U538	EAST SOUTH CENTRAL	CL W/O SCRUB OP EX MD	318.4	6,282
34U638	WEST NORTH CENTRAL	CL W/O SCRUB OP EX MD	276.8	8,381
34U838	MOUNTAIN	CL W/O SCRUB OP EX MD	102.9	8,054
44U348	SOUTH ATLANTIC	COAL ACCEP TBL OP EX MD	65.8	8,288
44U548	EAST SOUTH CENTRAL	COAL ACCEP TBL OP EX MD	94.1	8,718
44U948	PACIFIC	COAL ACCEP TBL OP EX MD	32.6	1,493
74U278	MID ATLANTIC	COMBINED W DS OP EX MD	7.4	3,028
74U978	PACIFIC	COMBINED W DS OP EX MD	7.1	3,370
84U188	NORTH EAST	GAS FED STM OP EX MD	9.0	2,897
84U288	MID ATLANTIC	GAS FED STM OP EX MD	138.7	3,690
84U388	SOUTH ATLANTIC	GAS FED STM OP EX MD	21.9	2,762
84U488	EAST NORTH CENTRAL	GAS FED STM OP EX MD	74.9	3,420
84U588	EAST SOUTH CENTRAL	GAS FED STM OP EX MD	68.0	

UNIT	REGION	MODE	QTY	PRICE
84U688	WEST NORTH CENTRAL	GAS FED STM OP EX MD		59.7
84U788	WEST SOUTH CENTRAL	GAS FED STM OP EX MD		856.7
84U888	MOUNTAIN	GAS FED STM OP EX MD		201.3
84U169	NORTH EAST	SIMPLE W DS OP EX PK		5.8
84U269	SOUTH ATLANTIC	SIMPLE W DS OP EX PK		1.3
84U369	EAST NORTH CENTRAL	SIMPLE W DS OP EX PK		18.1
84U469	WEST NORTH CENTRAL	SIMPLE W DS OP EX PK		44.8
84U769	WEST SOUTH CENTRAL	SIMPLE W DS OP EX PK		15.1
84U869	MOUNTAIN	SIMPLE W DS OP EX PK		4.5
84U969	PACIFIC	SIMPLE W DS OP EX PK		4.7
74U379	SOUTH ATLANTIC	COMBINED W DS OP EX PK		4.1
74U479	WEST NORTH CENTRAL	COMBINED W DS OP EX PK		1.6
74U779	WEST SOUTH CENTRAL	COMBINED W DS OP EX PK		19.6
94U197	NORTH EAST	HYDRO OP EX BS		6.7
94U297	MID ATLANTIC	HYDRO OP EX BS		89.7
94U397	SOUTH ATLANTIC	HYDRO OP EX BS		24.1
94U497	EAST NORTH CENTRAL	HYDRO OP EX BS		5.2
94U597	EAST SOUTH CENTRAL	HYDRO OP EX BS		30.6
94U697	WEST NORTH CENTRAL	HYDRO OP EX BS		50.3
94U897	MOUNTAIN	HYDRO OP EX BS		37.4
94U997	PACIFIC	HYDRO OP EX BS		514.5
94U198	NORTH EAST	HYDRO OP EX MD		17.2
94U298	MID ATLANTIC	HYDRO OP EX MD		8.3
94U398	SOUTH ATLANTIC	HYDRO OP EX MD		79.5
94U498	EAST NORTH CENTRAL	HYDRO OP EX MD		5.2
94U598	EAST SOUTH CENTRAL	HYDRO OP EX MD		81.0
94U698	WEST NORTH CENTRAL	HYDRO OP EX MD		27.3
94U798	WEST SOUTH CENTRAL	HYDRO OP EX MD		35.0
94U898	MOUNTAIN	HYDRO OP EX MD		65.6
94U998	PACIFIC	HYDRO OP EX MD		219.4
94U199	NORTH EAST	HYDRO OP EX PK		46.5
94U299	MID ATLANTIC	HYDRO OP EX PK		72.1
94U399	SOUTH ATLANTIC	HYDRO OP EX PK		32.2
94U499	EAST NORTH CENTRAL	HYDRO OP EX PK		47.3
94U599	EAST SOUTH CENTRAL	HYDRO OP EX PK		10.2
94U699	WEST NORTH CENTRAL	HYDRO OP EX PK		12.4
94U799	WEST SOUTH CENTRAL	HYDRO OP EX PK		22.3
94U899	MOUNTAIN	HYDRO OP EX PK		9.6
94U999	PACIFIC	HYDRO OP EX PK		59.2
194115	NORTH EAST	OIL-FED STM BUILD(75-77)		51.4
194215	MID ATLANTIC	COAL W/O SCRUB BUILD(75-77)		92.8
194315	SOUTH ATLANTIC	OIL-FED STM BUILD(75-77)		92.5
194415	EAST NORTH CENTRAL	COAL W/O SCRUB BUILD(75-77)		61.7
194515	EAST SOUTH CENTRAL	OIL-FED STM BUILD(75-77)		100.0
194615	WEST NORTH CENTRAL	GAS FED STM BUILD(75-77)		102.1
194715	WEST SOUTH CENTRAL	OIL-FED STM BUILD(75-77)		4.1
194815	MOUNTAIN	COAL W/O SCRUB BUILD(75-77)		35.4
194915	PACIFIC	OIL-FED STM BUILD(75-77)		221.6
194116	NORTH EAST	COAL W/O SCRUB BUILD(75-77)		18.0
194216	MID ATLANTIC	COAL W/O SCRUB BUILD(75-77)		61.4
194316	SOUTH ATLANTIC	COAL W/O SCRUB BUILD(75-77)		150.4
194416	EAST NORTH CENTRAL	COAL W/O SCRUB BUILD(75-77)		118.3
194516	EAST SOUTH CENTRAL	OIL-FED STM BUILD(75-77)		32.5

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF MMKWH/DAY OF NAMEPLATE CAPACITY. THE ACTUAL OUTPUT IN MMKWH/DAY CAN BE OBTAINED BY MULTIPLYING BY THE APPROPRIATE LOADFACTORS. THE PRICE IS THE MARGINAL VALUE NET OF ALL COSTS OF AN ADDITIONAL UNIT OF NAMEPLATE CONVERSION CAPACITY.

CONVERSION ACTIVITY SUMMARY

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DB51215
DATE & REVISION	DEC15-1
IMPORTS	\$13

TASK FORCE - UUI

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
194117	NORTH EAST	TRANSMISSION NEW	317.2	2,867
194217	MID ATLANTIC	TRANSMISSION NEW	1324.2	2,867
194317	SOUTH ATLANTIC	TRANSMISSION NEW	1456.2	2,867
194417	EAST NORTH CENTRAL	TRANSMISSION NEW	1554.9	2,618
194517	EAST SOUTH CENTRAL	TRANSMISSION NEW	848.3	2,618
194617	WEST NORTH CENTRAL	TRANSMISSION NEW	584.3	2,618
194717	WEST SOUTH CENTRAL	TRANSMISSION NEW	678.7	2,618
194817	MOUNTAIN	TRANSMISSION NEW	281.2	4,223
194917	PACIFIC	TRANSMISSION NEW	738.6	4,223
194118	NORTH EAST	TRANSMISSION OLD	454.4	2,867
194218	MID ATLANTIC	TRANSMISSION OLD	1602.1	2,867
194318	SOUTH ATLANTIC	TRANSMISSION OLD	2033.4	2,867
194418	EAST NORTH CENTRAL	TRANSMISSION OLD	1944.5	2,618
194518	EAST SOUTH CENTRAL	TRANSMISSION OLD	950.9	2,618
194618	WEST NORTH CENTRAL	TRANSMISSION OLD	808.6	2,618
194718	WEST SOUTH CENTRAL	TRANSMISSION OLD	1345.9	2,618
194818	MOUNTAIN	TRANSMISSION OLD	656.3	4,223
194918	PACIFIC	TRANSMISSION OLD	1348.7	4,223
194119	NORTH EAST	CONVERT ELECTRICITY	367.7	
194219	MID ATLANTIC	CONVERT ELECTRICITY	1409.2	
194319	SOUTH ATLANTIC	CONVERT ELECTRICITY	1667.9	
194419	EAST NORTH CENTRAL	CONVERT ELECTRICITY	1670.9	
194519	EAST SOUTH CENTRAL	CONVERT ELECTRICITY	871.1	
194619	WEST NORTH CENTRAL	CONVERT ELECTRICITY	666.1	
194719	WEST SOUTH CENTRAL	CONVERT ELECTRICITY	965.2	
194819	MOUNTAIN	CONVERT ELECTRICITY	459.5	
194919	PACIFIC	CONVERT ELECTRICITY	1042.3	
194120	NORTH EAST	OIL TO COAL CONVERSION	2.4	9,154
194220	MID ATLANTIC	OIL TO COAL CONVERSION	26.0	9,172
194320	SOUTH ATLANTIC	OIL TO COAL CONVERSION	158.0	8,054
194420	EAST NORTH CENTRAL	GAS TO COAL CONVERSION	4.4	9,185
194520	EAST SOUTH CENTRAL	GAS TO COAL CONVERSION	4.5	8,054
194620	WEST NORTH CENTRAL	GAS TO COAL CONVERSION	10.7	9,185
194720	WEST SOUTH CENTRAL	GAS TO COAL CONVERSION	6.6	8,288
194820	MOUNTAIN	OIL TO GAS INTERCHANGE	9.0	8,142
194920	PACIFIC	OIL TO GAS INTERCHANGE	138.4	3,370
194121	NORTH EAST	OIL TO GAS INTERCHANGE	13.1	2,897
194221	MID ATLANTIC	OIL TO GAS INTERCHANGE	47.8	3,690
194321	SOUTH ATLANTIC	OIL TO GAS INTERCHANGE	24.1	2,762
194421	EAST NORTH CENTRAL	OIL TO GAS INTERCHANGE	14.1	3,420
194521	EAST SOUTH CENTRAL	OIL TO GAS INTERCHANGE	39.3	2,577
194621	WEST NORTH CENTRAL	OIL TO GAS INTERCHANGE	120	3,179
194721	WEST SOUTH CENTRAL	GAS TO OIL INTERCHANGE	6.2	4,143

DDG1DG U	NORTH EAST	DISTILLATE TO GAS	2,410
DDG2DG U	MID ATLANTIC	DISTILLATE TO GAS	110,7
DDG3DG U	SOUTH ATLANTIC	DISTILLATE TO GAS	232,7
DDG4DG U	EAST NORTH CENTRAL	DISTILLATE TO GAS	120,9
DDG5DG U	EAST SOUTH CENTRAL	DISTILLATE TO GAS	40,4
DDG6DG U	WEST NORTH CENTRAL	DISTILLATE TO GAS	59,1
DDG7DG U	WEST SOUTH CENTRAL	DISTILLATE TO GAS	7,2
DDG8DG U	MOUNTAIN	DISTILLATE TO GAS	71,2
DDG9DG U	PACIFIC	DISTILLATE TO GAS	20,7
45T5U4 T	PITTSBURGH; RAIL	CONVERT CH TO CB COAL	8,5
45T6U4 T	DETROIT; RAIL	CONVERT CH TO CB COAL	21,2
55T7U5 T	CINCINNATI; RAIL	CONVERT CH TO CB COAL	9,3
65T7U6 T	CINCINNATI; RAIL	CONVERT CZ TO CB COAL	1,9
65T8U6 T	LOS ANGELES; RAIL	CONVERT CZ TO CB COAL	1,7
65T9U6 T	SAN FRANCISCO; RAIL	CONVERT CZ TO CB COAL	1,8
75T7U7 T	CINCINNATI; RAIL	CONVERT CX TO CB COAL	51,8
75T8U7 T	DETROIT; RAIL	CONVERT CX TO CB COAL	4
75T9U7 T	CHICAGO; RAIL	CONVERT CX TO CB COAL	95,6
75T0U7 T	ST. LOUIS; RAIL	CONVERT CX TO CB COAL	30,9
75T1U7 T	ST. PAUL-MINNAPL.; RAIL	CONVERT CX TO CB COAL	13,5
75T2U7 T	KANSAS CITY; RAIL	CONVERT CX TO CB COAL	8,4
75T3U7 T	HOUSTON; RAIL	CONVERT CX TO CB COAL	4
75T4U7 T	DALLAS; RAIL	CONVERT CX TO CB COAL	9
75T5U7 T	DENVER; RAIL	CONVERT CX TO CB COAL	13,3
75T6U7 T	SEATTLE; RAIL	CONVERT CX TO CB COAL	3
75T7U7 T	NEW ORLEANS; RAIL	CONVERT CX TO CB COAL	30,4
95T1U9 T	BOSTON; RAIL	CONVERT CI TO CB COAL	1,0
95T2U9 T	NEW YORK; RAIL	CONVERT CI TO CB COAL	36,9
95T3U9 T	BALTIMORE-PHIL.; RAIL	CONVERT CI TO CB COAL	54,7
95T4U9 T	MIAMI; RAIL	CONVERT CI TO CB COAL	10,8
95T5U9 T	ATLANTA; RAIL	CONVERT CI TO CB COAL	18,1
95T6U9 T	DETROIT; RAIL	CONVERT CI TO CB COAL	23,8
45T1V4 T	BOSTON; RAIL	CONVERT CH TO CA COAL	33,3
45T2V4 T	NEW YORK; RAIL	CONVERT CH TO CA COAL	109,5
45T3V4 T	BALTIMORE-PHIL.; RAIL	CONVERT CH TO CA COAL	202,4
45T4V4 T	MIAMI; RAIL	CONVERT CH TO CA COAL	34,4
45T5V4 T	PITTSBURGH; RAIL	CONVERT CH TO CA COAL	25,3
45T6V4 T	ATLANTA; RAIL	CONVERT CH TO CA COAL	57,4
45T8V4 T	DETROIT; RAIL	CONVERT CH TO CA COAL	78,5
55T7V5 T	CINCINNATI; RAIL	CONVERT CH TO CA COAL	96,7
55T9V5 T	CHICAGO; RAIL	CONVERT CH TO CA COAL	142,3
55T0V5 T	ST. LOUIS; RAIL	CONVERT CH TO CA COAL	64,1
55T1V5 T	ST. PAUL-MINNAPL.; RAIL	CONVERT CH TO CA COAL	30,1
55T2V5 T	KANSAS CITY; RAIL	CONVERT CH TO CA COAL	25,4
55T3V5 T	NEW ORLEANS; RAIL	CONVERT CH TO CA COAL	45,5
45T8V4 T	ST. PAUL-MINNAPL.; RAIL	CONVERT CH TO CA COAL	16,7
45T9V4 T	HOUSTON; RAIL	CONVERT CH TO CA COAL	16,9
45T0V4 T	DALLAS; RAIL	CONVERT CH TO CA COAL	39,5
45T1V4 T	DENVER; RAIL	CONVERT CH TO CA COAL	43,1
45T2V4 T	LOS ANGELES; RAIL	CONVERT CH TO CA COAL	16,4
45T3V4 T	SAN FRANCISCO; RAIL	CONVERT CH TO CA COAL	8,2
45T4V4 T	SEATTLE; RAIL	CONVERT CH TO CA COAL	2,7
AVU1CC U	NORTH EAST	CAP-OPER-MAIN COST	7610,0
AVU2CC U	MID ATLANTIC	CAP-OPER-MAIN COST	31515,2
AVU3CC U	SOUTH ATLANTIC	CAP-OPER-MAIN COST	32285,8
AVU4CC U	EAST NORTH CENTRAL	CAP-OPER-MAIN COST	32918,2
AVU5CC U	EAST SOUTH CENTRAL	CAP-OPER-MAIN COST	16616,7
AVU6CC U	WEST NORTH CENTRAL	CAP-OPER-MAIN COST	12920,1
AVU7CC U	WEST SOUTH CENTRAL	CAP-OPER-MAIN COST	15107,4
AVU8CC U	MOUNTAIN	CAP-OPER-MAIN COST	9190,7
AVU9CC U	PACIFIC	CAP-OPER-MAIN COST	18848,9
AVU1ZR U	NORTH EAST	RESIDUAL FUEL USED	165,1
AVU2ZR U	MID ATLANTIC	RESIDUAL FUEL USED	227,5
AVU3ZR U	SOUTH ATLANTIC	RESIDUAL FUEL USED	244,9
AVU4ZR U	EAST NORTH CENTRAL	RESIDUAL FUEL USED	68,2
AVU5ZR U	EAST SOUTH CENTRAL	RESIDUAL FUEL USED	1,2
AVU6ZR U	WEST NORTH CENTRAL	RESIDUAL FUEL USED	1,2
AVU7ZR U	WEST SOUTH CENTRAL	RESIDUAL FUEL USED	292,3
AVU8ZR U	MOUNTAIN	RESIDUAL FUEL USED	2,6
AVU9ZR U	PACIFIC	RESIDUAL FUEL USED	5,3
AVU1ZD U	NORTH EAST	DISTILLATE USED	2,7
AVU2ZD U	MID ATLANTIC	DISTILLATE USED	40,6
AVU3ZD U	SOUTH ATLANTIC	DISTILLATE USED	23,4
AVU4ZD U	EAST NORTH CENTRAL	DISTILLATE USED	14,5
AVU5ZD U	EAST SOUTH CENTRAL	DISTILLATE USED	32,5
AVU6ZD U	WEST NORTH CENTRAL	DISTILLATE USED	4,7
AVU7ZD U	WEST SOUTH CENTRAL	DISTILLATE USED	67,3
AVU8ZD U	MOUNTAIN	DISTILLATE USED	35,5
AVU9ZD U	PACIFIC	DISTILLATE USED	179,8
AVU1ZC U	NORTH EAST	STANDARD COAL USED	244,9
AVU2ZC U	MID ATLANTIC	STANDARD COAL USED	278,4
AVU3ZC U	SOUTH ATLANTIC	STANDARD COAL USED	111,2
AVU4ZC U	EAST NORTH CENTRAL	STANDARD COAL USED	99,5
AVU5ZC U	EAST SOUTH CENTRAL	STANDARD COAL USED	35,1
AVU6ZC U	WEST NORTH CENTRAL	STANDARD COAL USED	36,4
AVU7ZC U	WEST SOUTH CENTRAL	STANDARD COAL USED	23,1
AVU8ZC U	MOUNTAIN	STANDARD COAL USED	67,0
AVU9ZC U	PACIFIC	STANDARD COAL USED	637,7
AVU1ZG U	NORTH EAST	NATURAL GAS USED	334,2
AVU2ZG U	MID ATLANTIC	NATURAL GAS USED	417,2
AVU3ZG U	SOUTH ATLANTIC	NATURAL GAS USED	297,6
AVU4ZG U	EAST NORTH CENTRAL	NATURAL GAS USED	287,1
AVU5ZG U	EAST SOUTH CENTRAL	NATURAL GAS USED	5201,0
AVU6ZG U	WEST NORTH CENTRAL	NATURAL GAS USED	828,7
AVU7ZG U	WEST SOUTH CENTRAL	NATURAL GAS USED	22,5
AVU8ZG U	MOUNTAIN	NATURAL GAS USED	7,1
AVU9ZG U	PACIFIC	NATURAL GAS USED	126,7
AVU1ZL U	NORTH EAST	LO-SULFUR COAL USED	153,9
AVU2ZL U	MID ATLANTIC	LO-SULFUR COAL USED	226,9
AVU3ZL U	SOUTH ATLANTIC	LO-SULFUR COAL USED	88,0
AVU4ZL U	EAST NORTH CENTRAL	LO-SULFUR COAL USED	107,3
AVU5ZL U	EAST SOUTH CENTRAL	LO-SULFUR COAL USED	48,5
AVU6ZL U	WEST NORTH CENTRAL	LO-SULFUR COAL USED	70,6
AVU7ZL U	WEST SOUTH CENTRAL	LO-SULFUR COAL USED	6,6
AVU8ZL U	MOUNTAIN	LO-SULFUR COAL USED	77,2
65T1E6 T	BOSTON; RAIL	CONVERT CI TO CL COAL	110,3
65T2E6 T	NEW YORK; RAIL	CONVERT CI TO CL COAL	21,6
65T3E6 T	BALTIMORE-PHIL.; RAIL	CONVERT CI TO CL COAL	17,8
65T4E6 T	MIAMI; RAIL	CONVERT CI TO CL COAL	36,0
65T5E6 T	PITTSBURGH; RAIL	CONVERT CI TO CL COAL	36,6
65T6E6 T	ATLANTA; RAIL	CONVERT CI TO CL COAL	69,0
65T7E6 T	CINCINNATI; RAIL	CONVERT CI TO CL COAL	43,4
75T8E7 T	ST. PAUL-MINNAPL.; RAIL	CONVERT CX TO CL COAL	134,4
75T9E7 T	DETROIT; RAIL	CONVERT CX TO CL COAL	71,4
85T0E8 T	CHICAGO; RAIL	CONVERT CX TO CL COAL	31,8
85T1E8 T	ST. LOUIS; RAIL	CONVERT CX TO CL COAL	17,2
85T2E8 T	KANSAS CITY; RAIL	CONVERT CX TO CL COAL	40,2
85T3E8 T	HOUSTON; RAIL	CONVERT CX TO CL COAL	83,6
85T4E8 T	DALLAS; RAIL	CONVERT CX TO CL COAL	41,7
85T5E8 T	DENVER; RAIL	CONVERT CX TO CL COAL	37,2
85T6E8 T	NEW ORLEANS; RAIL	CONVERT CX TO CL COAL	32,1
85T7E8 T	CINCINNATI; RAIL	CONVERT CZ TO CL COAL	
85T8E8 T	DETROIT; RAIL	CONVERT CZ TO CL COAL	

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF THE PRIMARY OUTPUT, THE PRICE IS THE MARGINAL VALUE OF AN ADDITIONAL UNIT OF CONVERSION CAPACITY.

CONVERSION ACTIVITY SUMMARY

TASK FORCE - SY1

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
L3C8L3 C	WESTERN NORTHERN GREAT PLAINS	OPER SYNGAS (MB/CD-EQ)	40,0	.001
L3C8L4 C	WESTERN NORTHERN GREAT PLAINS	BUILD SYNGAS	40,0	.001
L3CAL3 C	SOUTHWEST	OPER SYNGAS (MB/CD-EQ)	40,0	.001
L3CAL4 C	SOUTHWEST	BUILD SYNGAS	40,0	.001
L5U2L5 U	MID ATLANTIC	OPER FUEL GAS (MB/CD-EQ)	25,0	.001
L5U2L6 U	MID ATLANTIC	BUILD FUEL GAS (MB/CD-EQ)	25,0	.001
L5U3L5 U	SOUTH ATLANTIC	OPER FUEL GAS (MB/CD-EQ)	25,0	.001
L5U3L6 U	SOUTH ATLANTIC	BUILD FUEL GAS (MB/CD-EQ)	25,0	.001
L5U4L5 U	EAST NORTH CENTRAL	OPER FUEL GAS (MB/CD-EQ)	25,0	.001
L5U4L6 U	EAST NORTH CENTRAL	BUILD FUEL GAS (MB/CD-EQ)	25,0	.001
L5U6L5 U	MOUNTAIN	OPER FUEL GAS (MB/CD-EQ)	25,0	.001
L5U6L6 U	MOUNTAIN	BUILD FUEL GAS (MB/CD-EQ)	25,0	.001
B5C8V8 C	WESTERN NORTHERN GREAT PLAINS	CONVERT CV TO CA COAL	18,8	
H5CAV8 C	SOUTHWEST	CONVERT CV TO CA COAL	18,8	

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF THE PRIMARY OUTPUT, THE PRICE IS THE MARGINAL VALUE OF AN ADDITIONAL UNIT OF CONVERSION CAPACITY.

CONVERSION ACTIVITY SUMMARY

TASK FORCE - GE1

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
61U9G1 U	PACIFIC	OPERATE GEYSERS	36,0	.001
61U9G2 U	PACIFIC	BUILD GEYSERS	36,0	.001
63U9G3 U	PACIFIC	OPERATE OTHER GEO	1,2	.001
63U9G4 U	PACIFIC	BUILD OTHER GEO	1,2	.001
65U9G5 U	MOUNTAIN	OPERATE BRINE	1,0	.001
65U9G6 U	MOUNTAIN	BUILD BRINE	1,0	.001
65U9G7 U	PACIFIC	OPERATE BRINE	1,4	.001
65U9G8 U	PACIFIC	BUILD BRINE	1,4	.001
68U1G8 U	NORTH EAST	OPERATE BIOMASS	1,5	.001
68U1G9 U	NORTH EAST	BUILD BIOMASS	1,5	.001
68U2G8 U	MID ATLANTIC	OPERATE BIOMASS	1,5	.001
68U2G9 U	MID ATLANTIC	BUILD BIOMASS	1,5	.001
68U3G8 U	SOUTH ATLANTIC	OPERATE BIOMASS	1,5	.001
68U3G9 U	SOUTH ATLANTIC	BUILD BIOMASS	1,5	.001
68U4G8 U	EAST NORTH CENTRAL	OPERATE BIOMASS	1,5	.001
68U4G9 U	EAST NORTH CENTRAL	BUILD BIOMASS	1,5	.001
68U5G8 U	EAST SOUTH CENTRAL	OPERATE BIOMASS	1,5	.001
68U5G9 U	EAST SOUTH CENTRAL	BUILD BIOMASS	1,5	.001
68U6G8 U	WEST NORTH CENTRAL	OPERATE BIOMASS	1,5	.001
68U6G9 U	WEST NORTH CENTRAL	BUILD BIOMASS	1,5	.001
68U7G8 U	WEST SOUTH CENTRAL	OPERATE BIOMASS	1,5	.001
68U7G9 U	WEST SOUTH CENTRAL	BUILD BIOMASS	1,5	.001
68U8G8 U	PACIFIC	OPERATE BIOMASS	1,5	.001
68U8G9 U	PACIFIC	BUILD BIOMASS	1,5	.001
68U9G8 U	PACIFIC	OPERATE BIOMASS	1,5	.001
68U9G9 U	PACIFIC	BUILD BIOMASS	1,5	.001
68U1G0 U	NORTH EAST	OPERATE WIND	1	.001
68U2G0 U	NORTH EAST	BUILD WIND	1	.001
68U3G0 U	EAST NORTH CENTRAL	OPERATE WIND	1	.001
68U4G0 U	EAST NORTH CENTRAL	BUILD WIND	1	.001
68U5G0 U	EAST SOUTH CENTRAL	OPERATE WIND	1	.001
68U6G0 U	EAST SOUTH CENTRAL	BUILD WIND	1	.001
68U7G0 U	WEST NORTH CENTRAL	OPERATE WIND	1	.001
68U8G0 U	WEST NORTH CENTRAL	BUILD WIND	1	.001
68U9G0 U	WEST SOUTH CENTRAL	OPERATE WIND	1	.001
68U0G0 U	WEST SOUTH CENTRAL	BUILD WIND	1	.001
68U1G1 U	MOUNTAIN	OPERATE THERMAL	1	.001
68U2G1 U	MOUNTAIN	BUILD THERMAL	1	.001
68U3G1 U	PACIFIC	OPERATE THERMAL	1	.001
68U4G1 U	PACIFIC	BUILD THERMAL	1	.001

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF THE PRIMARY OUTPUT, ELECT= MMKWH/D, THE PRICE IS THE MARGINAL VALUE OF AN ADDITIONAL UNIT OF CONVERSION CAPACITY.

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DBS1215
DATE & REVISION.....	DEC15-1
IMPORTS.....	\$13

1985 REFERENCE CASE

MODEL.....	85BAU6A
DEMAND SCENARIO.....	DBS1215
DATE & REVISION.....	DEC15-1
IMPORTS.....	\$13



1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DBS1215
DATE & REVISION	DEC15-1
IMPORTS	\$13

TASK FORCE = SH1

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
S1S1S1 S	SHALE REGION 1	BUILD SHALE	300,0	
S1S1S4 S	SHALE REGION 1	OPERATE SHALE	300,0	.001

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF THE PRIMARY OUTPUT.  
THE PRICE IS THE MARGINAL VALUE OF AN ADDITIONAL UNIT OF CONVERSION CAPACITY.

CONVERSION ACTIVITY SUMMARY

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DBS1215
DATE & REVISION	DEC15-1
IMPORTS	\$13

FOR YEAR 1985

TASK FORCE = RF1

ACTIVITY	LOCATION	CONVERSION MODE	QUANTITY	(75\$)PRICE
RE11N R	PAD1A	REFINERY OPERATION	564,0	
RE11R R	PAD1A	REFINERY OPERATION	1236,0	
Q1R1Q1 R	PAD1A	AGGREGATE CAPACITY	1800,0	.28
Y1R1Y1 R	PAD1A	EXISTING CAPACITY	1236,0	.08
I1R180 K	PAD1A		138,4	
ULR10L K	PAD1A	FOREIGN OIL USED	867,6	
BUR180 R	PAD1A	CONVERT BU/PR TO OTHER	882,2	
GLM1GL R	PAD1A	CONVERT GL TO GA	130,9	
CUR1CO R	PAD1A	CONVERT CO TO GL	55,0	
REK22P R	PAD2A	REFINERY OPERATION	1647,0	
REK22M K	PAD2A	REFINERY OPERATION	2363,4	
Q2R2Q2 K	PAD2A	AGGREGATE CAPACITY	4010,4	.01
MMK26F R	PAD2A		50,6	
SDR28G R	PAD2A		300,0	
I2R280 K	PAD2A		27,5	
I1K280 K	PAD2A		27,1	
M2K28S K	PAD2A		78,0	
OLR20L R	PAD2A	FOREIGN OIL USED	3278,2	
COM2CO R	PAD2A	CONVERT CO TO GL	20,4	
RE133I R	PAD3	REFINERY OPERATION	3730,9	
RE133Q K	PAD3	REFINERY OPERATION	776,2	
RE133M K	PAD3	REFINERY OPERATION	1693,1	
Q3R3Q3 R	PAD3	AGGREGATE CAPACITY	6200,2	.00
Y3R3Y3 R	PAD3	EXISTING CAPACITY	5424,0	.18
ANR38A R	PAD3		48,0	
LCR38H K	PAD3		1364,1	
LUR38I R	PAD3		1418,7	
UTR38J K	PAD3		1136,8	
TER38K R	PAD3		284,2	
WTR48L K	PAD3		1867,4	
H3R38R K	PAD3		82,5	
OLR30L R	PAD3	FOREIGN OIL USED	198,5	
COM3CO R	PAD3	CONVERT CO TO GL	43,3	
RE440D R	PAD4	REFINERY OPERATION	457,0	
RE440K R	PAD4	REFINERY OPERATION	151,0	
Q4R4Q4 R	PAD4	AGGREGATE CAPACITY	608,0	.21
Y4R4Y4 R	PAD4	EXISTING CAPACITY	457,0	.12
ASR48C R	PAD4		4,1	
OMR48F R	PAD4		603,9	
GLR48L R	PAD4		94,6	
COM4CO R	PAD4	CONVERT GL TO GA	1,6	
COM4CO R	PAD4	CONVERT CO TO GL	1,6	
RE55H R	PAD5	REFINERY OPERATION	1976,0	
RE55K R	PAD5	REFINERY OPERATION	1695,0	
Q5R5Q5 R	PAD5	AGGREGATE CAPACITY	3671,0	.44
Y5R5Y5 R	PAD5	EXISTING CAPACITY	1976,0	.00
ANR58A R	PAD5		2000,0	
ACR58C R	PAD5		328,4	
WDR58D R	PAD5		1176,5	
MDR58E R	PAD5		37,1	
H5R58P R	PAD5		129,0	
GLR58L R	PAD5		177,4	
CUR5CO R	PAD5	CONVERT GL TO GA	182,3	
RE61N R	PAD1B	CONVERT CO TO GL	101,0	
RE61K R	PAD1B	REFINERY OPERATION	369,0	
Q6R6Q6 R	PAD1B	REFINERY OPERATION	450,0	.23
Y6R6Y6 R	PAD1B	AGGREGATE CAPACITY	309,0	.08
I1N680 K	PAD1B	EXISTING CAPACITY	309,0	
OLR60L R	PAD1B		120,5	
COM6CO R	PAD1B	FOREIGN OIL USED	329,5	
REK72P R	PAD2B	CONVERT CO TO GL	1002,6	
Q7R7Q7 R	PAD2B	REFINERY OPERATION	1002,6	.07
MMR78F R	PAD2B	AGGREGATE CAPACITY	519,5	
WTR78L R	PAD2B		33,2	
OKR78N R	PAD2B		440,9	
H2R78S R	PAD2B		9,0	
COM7CO R	PAD2B	CONVERT CO TO GL	30,2	

NOTE - THE QUANTITY IDENTIFIES THE LEVEL OF ACTIVITY IN UNITS OF THE PRIMARY OUTPUT.  
THE PRICE IS THE MARGINAL VALUE OF AN ADDITIONAL UNIT OF CONVERSION CAPACITY.

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DBS1215
DATE & REVISION	DEC15-1
IMPORTS	\$13

DEMAND AREA = D NORTH EAST

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D1GA	GASOLINE,ALL GRADES(MB/CD)	333,2	14,57	333,24
D1DS	DISTILLATE,ALL GRADES(MB/CD)	525,9	14,50	525,87
D1RS	RESIDUAL,ALL GRADES(MB/CD)	306,9	14,45	306,95
D1OT	OTHER REFINED PETROLEUM(MB/CD)	120,0	16,39	119,96
D1EL	ELECTRICITY(MMKWH/CD)	332,6	33,21	334,63
D1NG	NATURAL GAS(MMSCF/CD)	911,9	2,19	911,91
D1CB	COAL,ALL HI-S(MT-EQUIV/CD)	1,1	33,06	1,10
D1CM	COAL,METALLURGICAL(MT/CD)	,4	31,58	,37

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA REQUIREMENTS

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DBS1215
DATE & REVISION	DEC15-1
IMPORTS	\$13

DEMAND AREA = D MID ATLANTIC

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D2GA	GASOLINE,ALL GRADES(MB/CD)	952,2	14,54	952,22
D2DS	DISTILLATE,ALL GRADES(MB/CD)	1217,6	14,47	1217,58
D2RS	RESIDUAL,ALL GRADES(MB/CD)	644,5	14,45	644,47
D2OI	OTHER REFINED PETROLEUM(MB/CD)	713,6	16,39	713,57
D2EL	ELECTRICITY(MMKWH/CD)	1282,3	33,43	1282,34
D2NG	NATURAL GAS(MMSCF/CD)	4764,4	2,19	4764,36
D2CB	COAL,ALL HI-S(MT-EQUIV/CD)	60,5	30,10	60,51
D2CM	COAL,METALLURGICAL(MT/CD)	56,7	28,39	56,71

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA REQUIREMENTS

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DBS1215
DATE & REVISION	DEC15-1
IMPORTS	\$13

DEMAND AREA = D SOUTH ATLANTIC

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D3GA	GASOLINE,ALL GRADES(MB/CD)	1168,4	14,41	1168,42
D3DS	DISTILLATE,ALL GRADES(MB/CD)	911,3	14,34	911,34
D3RS	RESIDUAL,ALL GRADES(MB/CD)	264,0	14,23	264,01
D3OT	OTHER REFINED PETROLEUM(MB/CD)	537,8	16,33	537,75
D3EL	ELECTRICITY(MMKWH/CD)	1504,4	29,77	1517,81
D3NG	NATURAL GAS(MMSCF/CD)	4508,7	1,99	4508,68
D3CB	COAL,ALL HI-S(MT-EQUIV/CD)	77,1	30,31	77,11
D3CM	COAL,METALLURGICAL(MT/CD)	17,9	27,39	17,93

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA REQUIREMENTS

1985 REFERENCE CASE

MODEL	85BAU6A
DEMAND SCENARIO	DBS1215
DATE & REVISION	DEC15-1
IMPORTS	\$13

DEMAND AREA = D EAST NORTH CENTRAL

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D4GA	GASOLINE,ALL GRADES(MB/CD)	1298,4	14,33	1296,19
D4DS	DISTILLATE,ALL GRADES(MB/CD)	1007,6	14,26	1007,63
D4RS	RESIDUAL,ALL GRADES(MB/CD)	183,2	14,05	183,24
D4OT	OTHER REFINED PETROLEUM(MB/CD)	773,9	16,19	773,94
D4EL	ELECTRICITY(MMKWH/CD)	1520,5	29,79	1520,51
D4NG	NATURAL GAS(MMSCF/CD)	12300,7	2,11	12300,70
D4CB	COAL,ALL HI-S(MT-EQUIV/CD)	161,4	27,44	161,43
D4CM	COAL,METALLURGICAL(MT/CD)	75,0	27,79	75,00

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA - D EAST SOUTH CENTRAL

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D5GA	GASOLINE, ALL GRADES(MB/CD)	484.1	14.36	484.07
D5DS	DISTILLATE, ALL GRADES(MB/CD)	255.5	14.29	255.55
D5RS	RESIDUAL, ALL GRADES(MB/CD)	23.8	14.04	23.81
D5UT	OTHER REFINED PETROLEUM(MB/CD)	297.6	16.29	295.30
D5EL	ELECTRICITY(MMKWH/CD)	788.9	26.89	792.67
D5NG	NATURAL GAS(MMSCF/CD)	3055.5	1.96	3055.51
D5CB	COAL, ALL HI-S(MT-EQUIV/CD)	64.5	27.91	64.05
D5CM	COAL, METALLURGICAL(MT/CD)	29.3	25.80	29.27

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA REQUIREMENTS

DEMAND AREA - D WEST NORTH CENTRAL

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D6GA	GASOLINE, ALL GRADES(MB/CD)	643.7	14.34	643.72
D6DS	DISTILLATE, ALL GRADES(MB/CD)	407.2	14.15	407.18
D6RS	RESIDUAL, ALL GRADES(MB/CD)	49.9	13.41	49.95
D6UT	OTHER REFINED PETROLEUM(MB/CD)	351.5	16.13	351.49
D6EL	ELECTRICITY(MMKWH/CD)	606.1	28.91	606.13
D6NG	NATURAL GAS(MMSCF/CD)	4352.0	2.00	4330.39
D6CB	COAL, ALL HI-S(MT-EQUIV/CD)	28.5	23.73	28.46
D6CM	COAL, METALLURGICAL(MT/CD)	2.0	25.95	2.01

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA REQUIREMENTS

DEMAND AREA - D WEST SOUTH CENTRAL

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D7GA	GASOLINE, ALL GRADES(MB/CD)	778.1	14.14	778.09
D7DS	DISTILLATE, ALL GRADES(MB/CD)	556.9	14.07	556.92
D7RS	RESIDUAL, ALL GRADES(MB/CD)	62.2	13.97	62.20
D7UT	OTHER REFINED PETROLEUM(MB/CD)	820.7	16.07	820.72
D7EL	ELECTRICITY(MMKWH/CD)	878.3	31.21	878.31
D7NG	NATURAL GAS(MMSCF/CD)	18362.6	1.94	18302.55
D7CB	COAL, ALL HI-S(MT-EQUIV/CD)	1.1	24.63	1.05
D7CM	COAL, METALLURGICAL(MT/CD)	1.8	26.60	1.83

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA REQUIREMENTS

DEMAND AREA - D MOUNTAIN

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D8GA	GASOLINE, ALL GRADES(MB/CD)	374.0	14.56	373.96
D8DS	DISTILLATE, ALL GRADES(MB/CD)	342.8	13.92	342.80
D8RS	RESIDUAL, ALL GRADES(MB/CD)	30.7	12.99	30.70
D8UT	OTHER REFINED PETROLEUM(MB/CD)	144.0	15.84	143.98
D8EL	ELECTRICITY(MMKWH/CD)	416.2	29.26	418.18
D8NG	NATURAL GAS(MMSCF/CD)	2628.0	1.98	2616.94
D8CB	COAL, ALL HI-S(MT-EQUIV/CD)	11.2	14.46	11.22
D8CM	COAL, METALLURGICAL(MT/CD)	5.9	18.15	5.86

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

DEMAND AREA - D PACIFIC

ACTIVITY	MATERIAL	QUANTITY	PRICE(75\$)	TRANSFER IN
D9GA	GASOLINE, ALL GRADES(MB/CD)	1506.4	14.54	1506.43
D9DS	DISTILLATE, ALL GRADES(MB/CD)	900.4	13.36	900.35
D9RS	RESIDUAL, ALL GRADES(MB/CD)	134.7	12.66	134.67
D9UT	OTHER REFINED PETROLEUM(MB/CD)	419.4	15.29	419.39
D9EL	ELECTRICITY(MMKWH/CD)	944.8	25.11	948.52
D9NG	NATURAL GAS(MMSCF/CD)	5592.0	2.11	5605.78
D9CB	COAL, ALL HI-S(MT-EQUIV/CD)	2.7	24.26	2.75
D9CM	COAL, METALLURGICAL(MT/CD)	3.7	26.08	3.66

NOTE - THE PRICE IS THE MARGINAL COST OR PRICE OF A UNIT OF THE PRODUCT IN THE REGION.

PRODUCT FINAL DEMAND

PRODUCT - COAL(MT-EQUIV/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1LB	D NORTH EAST	1.1	33.06	24.8
D2CB	D MID ATLANTIC	60.5	30.10	1361.4
D3CB	D SOUTH ATLANTIC	77.1	27.64	1735.0
D4CB	D EAST NORTH CENTRAL	161.4	27.91	3632.2
D5CB	D EAST SOUTH CENTRAL	64.5	28.5	1450.5
D6CB	D WEST NORTH CENTRAL	28.5	21.73	640.3
D7CB	D WEST SOUTH CENTRAL	1.1	24.63	23.6
D8CB	D MOUNTAIN	11.2	14.46	252.4
D9CB	D PACIFIC	2.7	24.26	61.9
TOTAL		408.1		9182.1

PRODUCT FINAL DEMAND

PRODUCT - COAL, METALLURGICAL(MT/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1CM	D NORTH EAST	.4	31.58	8.2
D2CM	D MID ATLANTIC	56.7	28.39	1276.0
D3CM	D SOUTH ATLANTIC	17.9	27.39	403.4
D4CM	D EAST NORTH CENTRAL	75.0	27.79	1687.6
D5CM	D EAST SOUTH CENTRAL	29.3	25.80	658.6
D6CM	D WEST NORTH CENTRAL	2.0	25.95	45.3
D7CM	D WEST SOUTH CENTRAL	1.8	26.60	41.2
D8CM	D MOUNTAIN	5.9	18.15	131.7
D9CM	D PACIFIC	3.7	26.08	82.3
TOTAL		192.6		4334.3

PRODUCT FINAL DEMAND

PRODUCT - ELECTRICITY(MMKWH/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1EL	D NORTH EAST	332.6	33.21	1134.7
D2EL	D MID ATLANTIC	1282.5	33.43	4375.3
D3EL	D SOUTH ATLANTIC	1509.4	29.77	5150.1
D4EL	D EAST NORTH CENTRAL	1520.5	29.79	5188.0
D5EL	D EAST SOUTH CENTRAL	788.9	26.89	2691.8
D6EL	D WEST NORTH CENTRAL	606.1	28.91	2068.1
D7EL	D WEST SOUTH CENTRAL	878.3	31.21	2996.8
D8EL	D MOUNTAIN	416.2	29.26	1420.1
D9EL	D PACIFIC	944.8	25.11	3223.5
TOTAL		8279.1		28248.4

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - NATURAL GAS(MMSCF/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1NG	D NORTH EAST	911.9	2.19	941.1
D2NG	D MID ATLANTIC	4764.4	2.19	4916.8
D3NG	D SOUTH ATLANTIC	4508.7	1.99	4653.0
D4NG	D EAST NORTH CENTRAL	12300.7	2.11	12694.3
D5NG	D EAST SOUTH CENTRAL	3055.5	1.96	3153.3
D6NG	D WEST NORTH CENTRAL	4352.0	2.00	4491.2
D7NG	D WEST SOUTH CENTRAL	18362.6	1.94	18950.2
D8NG	D MOUNTAIN	2628.0	1.98	2712.1
D9NG	D PACIFIC	5592.0	2.11	5771.0
TOTAL		56475.8		58283.0

PRODUCT FINAL DEMAND

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - GASOLINE, ALL GRADES(MB/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1GA	D NORTH EAST	333.2	14.57	1748.9
D2GA	D MID ATLANTIC	952.2	14.54	4997.3
D3GA	D SOUTH ATLANTIC	1168.4	14.41	6131.9
D4GA	D EAST NORTH CENTRAL	1294.4	14.33	6813.9
D5GA	D EAST SOUTH CENTRAL	484.1	14.36	2540.4
D6GA	D WEST NORTH CENTRAL	643.7	14.34	3378.2
D7GA	D WEST SOUTH CENTRAL	774.1	14.14	4083.4
D8GA	D MOUNTAIN	374.0	14.56	1962.6
D9GA	D PACIFIC	1506.4	14.54	7905.7
TOTAL		7534.5		39562.3

PRODUCT FINAL DEMAND

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - DISTILLATE, ALL GRADES(MB/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1DS	D NORTH EAST	525.9	14.50	3063.2
D2DS	D MID ATLANTIC	1217.6	14.47	7092.4
D3DS	D SOUTH ATLANTIC	911.3	14.34	5308.5
D4DS	D EAST NORTH CENTRAL	1007.6	14.26	5869.4
D5DS	D EAST SOUTH CENTRAL	255.5	14.29	1488.6
D6DS	D WEST NORTH CENTRAL	407.2	14.15	2371.9
D7DS	D WEST SOUTH CENTRAL	556.9	14.07	3244.1
D8DS	D MOUNTAIN	342.8	13.92	1996.8
D9DS	D PACIFIC	900.4	13.36	5244.5
TOTAL		6125.2		35679.4

PRODUCT FINAL DEMAND

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - RESIDUAL, ALL GRADES(MB/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1RS	D NORTH EAST	306.9	14.45	1929.8
D2RS	D MID ATLANTIC	644.5	14.45	4051.8
D3RS	D SOUTH ATLANTIC	264.0	14.23	1659.8
D4RS	D EAST NORTH CENTRAL	183.2	14.05	1152.0
D5RS	D EAST SOUTH CENTRAL	23.8	14.04	149.7
D6RS	D WEST NORTH CENTRAL	49.9	13.41	314.0
D7RS	D WEST SOUTH CENTRAL	62.2	13.97	391.0
D8RS	D MOUNTAIN	30.7	12.99	193.0
D9RS	D PACIFIC	134.7	12.66	846.7
TOTAL		1700.0		10687.8

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - OTHER REFINED PETROLEUM(MB/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
D1OT	D NORTH EAST	120.0		
D2OT	D MID ATLANTIC	713.6	16.39	599.8
D3OT	D SOUTH ATLANTIC	537.8	16.39	3567.9
D4OT	D EAST NORTH CENTRAL	773.9	16.33	2688.8
D5OT	D EAST SOUTH CENTRAL	297.6	16.19	3869.7
D6OT	D WEST NORTH CENTRAL	351.5	16.29	1488.1
D7OT	D WEST SOUTH CENTRAL	820.7	16.13	1757.5
D8OT	D MOUNTAIN	144.0	16.07	4103.6
D9OT	D PACIFIC	419.4	15.84	719.9
TOTAL		4178.4		2097.0

2092.2

UTILITY FOSSIL FUEL CONSUMPTION

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - COAL, ALL HI-S(MT-EQUIV/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
1CA	U NORTH EAST	35.5		
2CA	U MID ATLANTIC	179.8	20.25	799.4
3CA	U SOUTH ATLANTIC	244.9	17.23	4044.8
4CA	U EAST NORTH CENTRAL	278.4	17.51	5511.3
5CA	U EAST SOUTH CENTRAL	111.2	15.02	6263.8
6CA	U WEST NORTH CENTRAL	99.5	13.89	2502.1
7CA	U WEST SOUTH CENTRAL	35.1	14.91	2239.6
8CA	U MOUNTAIN	36.4	15.40	790.2
9CA	U PACIFIC	23.1	10.37	819.2
TOTAL			18.40	520.3

UTILITY FOSSIL FUEL CONSUMPTION

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - COAL, ALL LO-S(MT-EQUIV/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
1CL	U NORTH EAST	7.1		
2CL	U MID ATLANTIC	126.7	31.06	159.3
3CL	U SOUTH ATLANTIC	153.9	28.10	2850.0
4CL	U EAST NORTH CENTRAL	226.9	28.31	3461.6
5CL	U EAST SOUTH CENTRAL	88.0	25.44	5105.1
6CL	U WEST NORTH CENTRAL	107.3	25.91	1979.6
7CL	U WEST SOUTH CENTRAL	48.5	21.68	2413.9
8CL	U MOUNTAIN	70.6	22.63	1090.3
TOTAL		826.8	12.46	1588.1

UTILITY FOSSIL FUEL CONSUMPTION

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT - NATURAL GAS(MMSCF/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
1NG	U NORTH EAST	67.0		
2NG	U MID ATLANTIC	637.7	2.19	69.2
3NG	U SOUTH ATLANTIC	334.2	2.19	658.2
4NG	U EAST NORTH CENTRAL	417.2	1.99	344.9
5NG	U EAST SOUTH CENTRAL	297.6	2.11	430.5
6NG	U WEST NORTH CENTRAL	287.1	1.96	307.1
7NG	U WEST SOUTH CENTRAL	5201.0	2.00	296.3
8NG	U MOUNTAIN	828.7	1.94	5367.5
9NG	U PACIFIC	26.5	1.98	855.2
TOTAL		8097.0	2.11	27.3

8356.1



1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT = DISTILLATE, ALL GRADES(MB/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
1DS	U NORTH EAST	2.6	14.50	14.9
2DS	U MID ATLANTIC	.3	14.47	1.5
3DS	U SOUTH ATLANTIC	2.7	14.34	15.5
4DS	U EAST NORTH CENTRAL	40.6	14.26	236.7
5DS	U EAST SOUTH CENTRAL	23.4	14.29	136.2
6DS	U WEST NORTH CENTRAL	14.5	14.15	84.6
7DS	U WEST SOUTH CENTRAL	32.6	14.07	189.9
8DS	U MOUNTAIN	4.7	13.92	27.7
9DS	U PACIFIC	67.3	13.56	392.2
TOTAL		188.7		1099.1

UTILITY FOSSIL FUEL CONSUMPTION

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

PRODUCT = RESIDUAL, ALL GRADES(MB/CD)

ACTIVITY	LOCATION	QUANTITY	PRICE(75\$)	BTU
1RS	U NORTH EAST	165.1	14.45	1038.0
2RS	U MID ATLANTIC	227.5	14.45	1430.5
3RS	U SOUTH ATLANTIC	244.9	14.23	1539.5
4RS	U EAST NORTH CENTRAL	68.2	14.05	428.7
5RS	U EAST SOUTH CENTRAL	.8	14.04	5.1
6RS	U WEST NORTH CENTRAL	1.2	13.41	7.3
7RS	U WEST SOUTH CENTRAL		11.77	
8RS	U MOUNTAIN		12.99	
9RS	U PACIFIC	292.3	12.66	1837.8
TOTAL		1000.0		6287.0

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE NAME	
CB COAL, ALL HI-S(MT-EQUIV/CD)				
GA GASOLINE, ALL GRADES(MB/CD)				
.0606		R6 R	PAD1B	
.0121		R7 R	PAD2B	
		F0 F	OTHER FOREIGN LOCATIONS	
		F2 F	CARIBBEAN/C.A.M.	
BARGE/SHIP OR LOCAL				
		D2 D	MID ATLANTIC	151.0
		D6 D	WEST NORTH CENTRAL	389.9
		D1 D	NORTH EAST	4.8
		D1 D	NORTH EAST	44.0
PIPELINE OR LOCAL				
.0436		R1 R	PAD1A	
.0121		R1 R	PAD1A	
.2678		R2 R	PAD2A	
.0606		R2 R	PAD2A	
.0690		R2 R	PAD2A	
.4096		R2 R	PAD2A	
.2763		R3 R	PAD3	
.2278		R3 R	PAD3	
.0121		R3 R	PAD3	
.0303		R3 R	PAD3	
.0121		R4 R	PAD4	
		R5 R	PAD5	
TOTAL 590.5				
DS DISTILLATE, ALL GRADES(MB/CD)				
.0121		R1 R	PAD1A	
.0121		R3 R	PAU3	
.0606		R6 R	PAD1B	
.0121		R7 R	PAD2B	
		F0 F	OTHER FOREIGN LOCATIONS	
		F2 F	CARIBBEAN/C.A.M.	
		F2 F	CARIBBEAN/C.A.M.	
BARGE/SHIP OR LOCAL				
		D2 D	MID ATLANTIC	320.8
		D7 D	WEST SOUTH CENTRAL	556.9
		D2 D	MID ATLANTIC	180.9
		D6 D	WEST NORTH CENTRAL	191.1
		D1 D	NORTH EAST	4.8
		U1 U	NORTH EAST	2.6
		D1 D	NORTH EAST	118.8
TOTAL 1375.8				

F-70 PIPELINE OR LOCAL

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE NAME	
.0436		R1 R	PAD1A	
.2678		R2 R	PAD2A	
.0606		R2 R	PAD2A	
.2678		R2 R	PAD2A	
.0606		R2 R	PAD2A	
.2763		R3 R	PAD3	
.2278		R3 R	PAD3	
.0121		R3 R	PAD3	
.4096		R3 R	PAD3	
.2763		R3 R	PAD3	
.2278		R3 R	PAD3	
.2545		R3 R	PAD3	
.2545		R4 R	PAD4	
.5660		R4 R	PAD4	
.0121		R5 R	PAD5	
1.1198		R5 R	PAD5	
.5660		R5 R	PAD5	
.0121		R5 R	PAD5	
.1296		R5 R	PAD5	
		R7 R	PAD2B	
UT OTHER REFINED PETROLEUM(MB/CD)				
.0121		R3 R	PAD3	
.0121		R5 R	PAD5	
.0606		R6 R	PAD1B	
		F0 F	OTHER FOREIGN LOCATIONS	
		F2 F	CARIBBEAN/C.A.M.	
		F2 F	CARIBBEAN/C.A.M.	
BARGE/SHIP OR LOCAL				
		D7 D	WEST SOUTH CENTRAL	820.7
		D9 D	PACIFIC	419.4
		D2 D	MID ATLANTIC	88.9
		D2 D	MID ATLANTIC	81.3
		D1 D	NORTH EAST	120.0
		D2 D	MID ATLANTIC	45.0
PIPELINE OR LOCAL				
		D2 D	MID ATLANTIC	448.0
		D2 D	MID ATLANTIC	54.3
		D3 D	SOUTH ATLANTIC	135.9
		D4 D	EAST NORTH CENTRAL	773.9
		D3 D	SOUTH ATLANTIC	258.1
		D5 D	EAST SOUTH CENTRAL	295.3
TOTAL 4938.4				

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE

MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE NAME	
.2545		R4 R	PAD4	
.8568		R5 R	PAD5	
.5660		R5 R	PAD5	
.2121		R7 R	PAD2B	
.0121		R7 R	PAD2B	
KS RESIDUAL, ALL GRADES(MB/CD)				
.0128		R1 R	PAD1A	
.7579		R2 R	PAD2A	
.7579		R2 R	PAD2A	
.5761		R2 R	PAD2A	
.4881		R2 R	PAD2A	
.0128		R3 R	PAD3	
2.0555		R3 R	PAD3	
.9892		R4 R	PAD4	
1.7486		R4 R	PAD4	
.0128		R5 R	PAD5	
1.7986		R5 R	PAD5	
.0128		R5 R	PAJ5	
.0642		R5 R	PAD5	
.8552		R6 R	PAD1B	
.6423		R7 R	PAD2B	
.0128		R7 R	PAD2B	
.8552		R7 R	PAD2B	
.6423		R7 R	PAD2B	
.0128		R7 R	PAD2B	
BARGE/SHIP OR LOCAL				
		U2 U	MID ATLANTIC	164.9
		U3 U	SOUTH ATLANTIC	244.9
		D3 D	SOUTH ATLANTIC	264.0
		D4 D	EAST NORTH CENTRAL	87.5
		D2 D	MID ATLANTIC	299.4
		D7 D	WEST SOUTH CENTRAL	62.2
		D4 D	EAST NORTH CENTRAL	11.8
		D8 D	MOUNTAIN	30.7
		U2 U	MID ATLANTIC	62.6
		U9 U	PACIFIC	292.3
		D2 D	MID ATLANTIC	1.1
		D9 D	PACIFIC	134.7
		D2 D	MID ATLANTIC	41.2
		U4 U	EAST NORTH CENTRAL	68.2
		U5 U	EAST SOUTH CENTRAL	.8
		U6 U	WEST NORTH CENTRAL	1.2
		D4 D	EAST NORTH CENTRAL	83.9
		D5 D	EAST SOUTH CENTRAL	23.8
		D6 D	WEST NORTH CENTRAL	49.9
		D1 D	NORTH EAST	4.8
		U1 U	NORTH EAST	165.1
		D1 D	NORTH EAST	302.2
		D2 D	MID ATLANTIC	302.7
TOTAL 2600.8				

CB COAL HI-HTU, HI-S(MT/CD)

1.6900

C1 C NORTHERN APPLACHIAN

RAIL OR LOCAL  
 T5 T PITTSBURGH, RAIL

TOTAL 2700.0

1985 REFERENCE CASE

MODEL..... 85BAU6A  
DEMAND SCENARIO..... DBS1215  
DATE & REVISION..... DEC15-1  
IMPORTS..... \$13

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
5.0900	C2 C CENTRAL APPLACHIAN	T3 T	BALTIMORE-PHIL.; RAIL	75.4
4.9900	C2 C CENTRAL APPLACHIAN	T6 T	ATLANTA; RAIL	76.5
3.1600	C3 C SOUTHERN APPLACHIAN	T6 T	ATLANTA; RAIL	33.3
2.1500	T2 T NEW YORK; RAIL	T1 T	BOSTON; RAIL	33.3
1.7500	T3 T BALTIMORE-PHIL.; RAIL	T2 T	NEW YORK; RAIL	142.8
3.0800	T5 T PITTSBURGH; RAIL	T3 T	BALTIMORE-PHIL.; RAIL	269.7
2.7800	T5 T PITTSBURGH; RAIL	T8 T	DETROIT; RAIL	99.5
6.7300	T6 T ATLANTA; RAIL	T4 T	MIAMI; RAIL	34.4

TOTAL 1150.1

CW COAL MED-BTU,HI-S(MT/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
2.8200	C4 C MIDWEST	W7 W	CINCINNATI; BARGE	106.0
1.8100	C4 C MIDWEST	WA W	ST. LOUIS; BARGE	236.5
2.2700	C4 C MIDWEST	WJ W	NEW ORLEANS; BARGE	45.5
1.6900	C5 C CENTRAL WEST	TC T	KANSAS CITY; RAIL	25.4
2000	W7 W CINCINNATI; BARGE	T7 T	CINCINNATI; RAIL	106.0
2000	W9 W CHICAGO; BARGE	T9 T	CHICAGO; RAIL	142.3
2000	WA W ST. LOUIS; BARGE	TA T	ST. LOUIS; RAIL	64.1
1.6900	WA W ST. LOUIS; BARGE	W9 W	CHICAGO; BARGE	142.3
4.3300	WA W ST. LOUIS; BARGE	WB W	ST. PAUL-MINNAPL.; BARGE	30.1
2000	WB W ST. PAUL-MINNAPL.; BARGE	TB T	ST. PAUL-MINNAPL.; RAIL	30.1
2000	WJ W NEW ORLEANS; BARGE	TJ T	NEW ORLEANS; RAIL	45.5

TOTAL 973.7

CX COAL LO-BTU,LO-S(MT/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
4.6700	C8 C WESTERN NORTHERN GREAT PLAINS	TF T	DENVER; RAIL	688.2
9.4500	CA C SOUTHWEST	TE T	DALLAS; RAIL	21.1
9.6900	CC C ALASKA	WI W	SEATTLE; BARGE	.3
2.5500	T9 T CHICAGO; RAIL	T7 T	DETROIT; RAIL	43.8
3.1700	TA T ST. LOUIS; RAIL	T7 T	CINCINNATI; RAIL	51.8
4.2300	TC T KANSAS CITY; RAIL	T9 T	CHICAGO; RAIL	273.9
2.6100	TC T KANSAS CITY; RAIL	TA T	ST. LOUIS; RAIL	154.1
2500	TE T KANSAS CITY; RAIL	WC W	KANSAS CITY; BARGE	72.1
2.4800	TE T DALLAS; RAIL	TD T	HOUSTON; RAIL	17.6
4.7200	TF T DENVER; RAIL	TB T	ST. PAUL-MINNAPL.; RAIL	13.5

TOTAL 2099.5

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE

MODEL..... 85BAU6A  
DEMAND SCENARIO..... DBS1215  
DATE & REVISION..... DEC15-1  
IMPORTS..... \$13

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
5.9700	TF T DENVER; RAIL	TC T	KANSAS CITY; RAIL	540.2
7.8400	TF T DENVER; RAIL	TE T	DALLAS; RAIL	37.6
1.9800	WA W ST. LOUIS; BARGE	WJ W	NEW ORLEANS; BARGE	72.1
2.3700	WC W KANSAS CITY; BARGE	WA W	ST. LOUIS; BARGE	72.1
2000	WI W SEATTLE; BARGE	TI T	SEATTLE; RAIL	.3
2000	WJ W NEW ORLEANS; BARGE	TJ T	NEW ORLEANS; RAIL	72.1

TOTAL 2130.7

CY COAL VLO-BTU,LO-S(MT/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
5.6400	C7 C EASTERN NORTHERN GREAT PLAINS	TB T	ST. PAUL-MINNAPL.; RAIL	69.0

TOTAL 69.0

CA COAL, ALL HI-S(MT-EQUIV/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
1.6900	C1 C NORTHERN APPLACHIAN	T5 T	PITTSBURGH; RAIL	41.6
5.0900	C2 C CENTRAL APPLACHIAN	T3 T	BALTIMORE-PHIL.; RAIL	286.6
4.9900	C2 C CENTRAL APPLACHIAN	T6 T	ATLANTA; RAIL	63.3
4.0000	C2 C CENTRAL APPLACHIAN	T7 T	CINCINNATI; RAIL	36.6
3.1600	C3 C SOUTHERN APPLACHIAN	T6 T	ATLANTA; RAIL	23.3
2.1500	T2 T NEW YORK; RAIL	T1 T	BOSTON; RAIL	7.7
1.7500	T3 T BALTIMORE-PHIL.; RAIL	T2 T	NEW YORK; RAIL	121.7
2.7800	T5 T PITTSBURGH; RAIL	T8 T	DETROIT; RAIL	23.8
6.7300	T6 T ATLANTA; RAIL	T4 T	MIAMI; RAIL	32.5

TOTAL 637.2

CM COAL, METALLURGICAL (MT/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
1.6900	C1 C NORTHERN APPLACHIAN	T5 T	PITTSBURGH; RAIL	31.0
1.5700	C1 C NORTHERN APPLACHIAN	W5 W	PITTSBURGH; BARGE	24.6
5.0900	C2 C CENTRAL APPLACHIAN	T3 T	BALTIMORE-PHIL.; RAIL	245.3
4.0000	C2 C CENTRAL APPLACHIAN	T7 T	CINCINNATI; RAIL	.5
3.8700	C2 C CENTRAL APPLACHIAN	WA W	ST. LOUIS; BARGE	30.0

1985 REFERENCE CASE

MODEL..... 85BAU6A  
DEMAND SCENARIO..... DBS1215  
DATE & REVISION..... DEC15-1  
IMPORTS..... \$13

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
4.1800	C9 C ROCKIES	TF T	DENVER; RAIL	13.1
11.7400	C9 C ROCKIES	TG T	LOS ANGELES; RAIL	2.2
12.0900	C9 C ROCKIES	TH T	SAN FRANCISCO; RAIL	1.1
14.4000	C9 C ROCKIES	TI T	SEATTLE; RAIL	1.1
3.1600	C3 C SOUTHERN APPLACHIAN	T6 T	ATLANTA; RAIL	.4
5.1900	C3 C SOUTHERN APPLACHIAN	WA W	ST. LOUIS; BARGE	7.2
3.1500	C3 C SOUTHERN APPLACHIAN	WJ W	NEW ORLEANS; BARGE	11.1
2.1500	T2 T NEW YORK; RAIL	TI T	BOSTON; RAIL	12.3
1.7500	T3 T BALTIMORE-PHIL.; RAIL	T2 T	NEW YORK; RAIL	.4
2.7800	T5 T PITTSBURGH; RAIL	T8 T	DETROIT; RAIL	37.2
6.7300	T6 T ATLANTA; RAIL	T4 T	MIAMI; RAIL	22.5
4.2300	TC T KANSAS CITY; RAIL	TB T	CHICAGO; RAIL	2.7
4.3200	TF T DENVER; RAIL	TC T	ST. PAUL-MINNAPL.; RAIL	4.6
5.9700	TF T DENVER; RAIL	TE T	DALLAS; RAIL	.8
7.8400	TF T DENVER; RAIL	TD T	HOUSTON; RAIL	5.1
3.4100	TF T DENVER; RAIL	W7 W	NEW ORLEANS; BARGE	1.3
1.6700	TJ T NEW ORLEANS; RAIL	W9 W	CHICAGO; BARGE	.5
2000	W5 W PITTSBURGH; BARGE	T7 T	CINCINNATI; RAIL	24.6
2000	W7 W CINCINNATI; BARGE	T9 T	CHICAGO; RAIL	24.6
2000	W9 W CHICAGO; BARGE	TA T	ST. LOUIS; RAIL	32.9
1.6900	WA W ST. LOUIS; BARGE	WB W	ST. PAUL-MINNAPL.; RAIL	32.9
2000	WJ W NEW ORLEANS; BARGE	TJ T	NEW ORLEANS; RAIL	12.3

TOTAL 589.2

CZ COAL MED-BTU,LO-S(MT/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
2.8200	C4 C MIDWEST	W7 W	CINCINNATI; BARGE	39.0
4.1800	C9 C ROCKIES	TF T	DENVER; RAIL	32.1
11.7400	C9 C ROCKIES	TG T	LOS ANGELES; RAIL	1.7
12.0900	C9 C ROCKIES	TH T	SAN FRANCISCO; RAIL	.8
14.4000	C9 C ROCKIES	TI T	SEATTLE; RAIL	32.1
4.2300	T9 T CHICAGO; RAIL	TC T	KANSAS CITY; RAIL	32.1
5.9700	TC T KANSAS CITY; RAIL	TE T	DALLAS; RAIL	32.1
2000	TF T DENVER; RAIL	TD T	HOUSTON; RAIL	39.0
2000	W7 W CINCINNATI; BARGE	T7 T	CINCINNATI; RAIL	39.0

TOTAL 209.1

CL COAL, ALL LO-S(MT-EQUIV/CD)

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE

MODEL..... 85BAU6A  
DEMAND SCENARIO..... DBS1215  
DATE & REVISION..... DEC15-1  
IMPORTS..... \$13

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
3.5500	C6 C GULF	TD T	HOUSTON; RAIL	16.9
2.7200	C6 C GULF	TE T	DALLAS; RAIL	39.5
5.6400	C7 C EASTERN NORTHERN GREAT PLAINS	TB T	ST. PAUL-MINNAPL.; RAIL	16.7

TOTAL 73.2

CV COAL LU-BTU,HI-S(MT/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
4.6700	C8 C WESTERN NORTHERN GREAT PLAINS	TF T	DENVER; RAIL	43.1
11.8300	CA C SOUTHWEST	TG T	LOS ANGELES; RAIL	16.4
1.5700	CB C NORTHWEST	WI W	SEATTLE; BARGE	11.0
4.4600	TI T SEATTLE; RAIL	TH T	SAN FRANCISCO; RAIL	8.2
2000	W1 W SEATTLE; BARGE	TI T	SEATTLE; RAIL	11.0

TOTAL 89.7

D0 SHALE OIL (MB/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
.3720	S1 S SHALE REGION 1	PIPELINE OR LOCAL	R2 R PAD2A	300.0

TOTAL 300.0

D1 COED LIQUIDS (MB/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
.0121	W1 W WEST COAST BLEND	PIPELINE OR LOCAL	W5 R PADS	1176.5

TOTAL 1176.5

D2 WEST COAST BLEND (MB/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
.2872	O2 O 2 WESTERN GULF BASIN	PIPELINE OR LOCAL	R2 R PAD2A	300.0

TOTAL 1176.5

D3 HEAVY CRUDE, PAD2 (MB/CD)

MATERIAL	LOCATION	TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	MODE	CODE	
.2872	O2 O 6 WESTERN GULF BASIN	PIPELINE OR LOCAL	R2 R PAD2A	300.0

TOTAL 300.0

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE NAME	
.0448		09 0 7	MIDCONTINENT		R7 R PAD2B	9.0
H3 HEAVY CRUDE,PADD3(MB/CD)						TOTAL 87.0
.5151		05 0 4	EASTERN ROCKY MOUNTAINS	PIPELINE OR LOCAL	R3 R PAD3	82.5
H4 HEAVY CRUDE,PADD4(MB/CD)						TOTAL 82.5
H5 HEAVY CRUDE,PADD5(MB/CD)						PIPELINE OR LOCAL
.0121		02 0 2	PACIFIC COAST STATES	PIPELINE OR LOCAL	R5 R PAD5	129.0
TS TAR SANDS SYNTHETIC CRUDE(MB/CD)						TOTAL 129.0
LU LOUISIANA OFFSHORE(MB/CD)						PIPELINE OR LOCAL
.0630		08 0 6A	GULF OF MEXICO	PIPELINE OR LOCAL	R3 R PAD3	1418.7
TE EAST TEXAS MIX(MB/CD)						TOTAL 1418.7
.0121		07 0 6	WESTERN GULF BASIN	PIPELINE OR LOCAL	R3 R PAD3	284.2
WT WEST TEXAS MIX(MB/CD)						TOTAL 284.2

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE NAME	
.3054		04 0 3	WESTERN ROCKY MOUNTAINS		R3 R PAD3	23.2
.1830		06 0 5	W. TEXAS - E. NEW MEXICO		R3 R PAD3	1587.4
.0121		07 0 6	WESTERN GULF BASIN		R3 R PAD3	56.8
.0448		09 0 7	MIDCONTINENT		R7 R PAD2B	33.2
OK OKLAHOMA MIX(MB/CD)						TOTAL 1700.6
.0448		09 0 7	MIDCONTINENT	PIPELINE OR LOCAL	R7 R PAD2B	440.9
AS ALASKAN SU. BROOKS RANGE(MB/CD)						TOTAL 440.9
1.3100		01 0 1	ALASKA(EX NORTH SLOPE)	BARGE/SHIP OR LOCAL	R5 R PAD5	328.8
.3539						TOTAL 328.8
.3539						PIPELINE OR LOCAL
WD PACIFIC OFFSHORE(MB/CD)						4.1
.5963						TOTAL 4.1
.0121						03 0 2A PACIFIC OCEAN (EX ALASKA) PIPELINE OR LOCAL R4 R PAD4 603.9
						03 0 2A PACIFIC OCEAN (EX ALASKA) PIPELINE OR LOCAL R5 R PAD5 37.1
AN ALASKAN NORTH SLOPE PROVEN(MB/CD)						TOTAL 641.0
4.0100		00 0	NORTH SLOPE (ON - OFF)	BARGE/SHIP OR LOCAL	R3 R PAD3	68.0
TOTAL						68.0

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE NAME	
1.3100		00 0	NORTH SLOPE (ON - OFF)	PIPELINE OR LOCAL	R5 R PAD5	2000.0
GT TEXAS GULF(MB/CD)						TOTAL 2000.0
.0121		07 0 6	WESTERN GULF BASIN	PIPELINE OR LOCAL	R3 R PAD3	1136.8
AP ALASKAN PRUDHOE BAY(MB/CD)						TOTAL 1136.8
I1 INDIGENOUS I1(MB/CD)						PIPELINE OR LOCAL
.0606		0A 0	8-9-10 MICH.BAS,E.INT. APP.	PIPELINE OR LOCAL	R2 R PAD2A	27.1
.1624		0B 0	11 ATLANTIC COAST		R6 R PAD1B	120.5
.1466		0C 0	11A ATLANTIC OCEAN		R1 R PAD1A	138.4
I2 INDIGENOUS I2(MB/CD)						TOTAL 286.0
.0606		0A 0	8-9-10 MICH.BAS,E.INT. APP.	PIPELINE OR LOCAL	R2 R PAD2A	274.5
OL OIL,AGGREGATE FOREIGN (MB/CD)						TOTAL 274.5
FU F OTHER FOREIGN LOCATIONS						BARGE/SHIP OR LOCAL
FD F OTHER FOREIGN LOCATIONS						R1 R PAD1A
FO F OTHER FOREIGN LOCATIONS						R2 R PAD2A
FO F OTHER FOREIGN LOCATIONS						R3 R PAD3
FO F OTHER FOREIGN LOCATIONS						R6 R PAD1B
						867.6
						3271.2
						198.5
						329.5

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT	DESTINATION	QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE NAME	
.3720		04 0 3	WESTERN ROCKY MOUNTAINS	PIPELINE OR LOCAL		4666.8
.3654		04 0 3	WESTERN ROCKY MOUNTAINS	PIPELINE OR LOCAL	R2 R PAD2A	59.6
.2545		05 0 4	EASTERN ROCKY MOUNTAINS		R7 R PAD2B	49.3
LM LOUISIANA ONSHORE(MB/CD)						TOTAL 579.1
.0121		07 0 6	WESTERN GULF BASIN	PIPELINE OR LOCAL	R3 R PAD3	1364.1
LY LIBYAN ES SIDER BLEND(MB/CD)						TOTAL 1364.1
VX VENEZUELAN MIX(MB/CD)						BARGE/SHIP OR LOCAL
H9 NORTH SEA EKOFISK(MB/CD)						BARGE/SHIP OR LOCAL
NI NIGERIAN BLEND(MB/CD)						BARGE/SHIP OR LOCAL
IN INDONESIAN MINAS(MB/CD)						BARGE/SHIP OR LOCAL
PC CANADIAN MIX						BARGE/SHIP OR LOCAL
MX MEXICAN						BARGE/SHIP OR LOCAL
AG ALGERIAN						BARGE/SHIP OR LOCAL



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 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT		DESTINATION		QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE	NAME		
IL	IRANIAN LIGHT							
IM	IRANIAN HEAVY							
AL	ARABIAN LIGHT							
AM	ARABIAN HEAVY							
KU	KUWAIT EXPORT							
ME	MIDEAST MIX							
IR	IRAGI							
RE	RUSSIAN EXPORT							
CE	CHINESE EXPORT							
SA	SOUTH AMERICAN MIX							
AU	AUSTRALIA MIX							
SE	SEASIA MIX							
SW	SWASIA MIX							

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
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 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT		DESTINATION		QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE	NAME		
NG	NATURAL GAS(MMSCF/CD)							
		FD	OTHER FOREIGN LOCATIONS		U1	NORTH EAST		67.0
		FD	OTHER FOREIGN LOCATIONS		U2	MID ATLANTIC		117.9
		FD	OTHER FOREIGN LOCATIONS		D1	NORTH EAST		911.9
		F1	CANADA ALL LOCATIONS		U4	EAST NORTH CENTRAL		417.2
		F1	CANADA ALL LOCATIONS		D4	EAST NORTH CENTRAL		313.7
		F1	CANADA ALL LOCATIONS		D9	PACIFIC		1671.8
.1504		G3	2 PACIFIC COAST STATES		D9	PACIFIC		669.7
.1504		G4	2A PACIFIC OCEAN		D9	PACIFIC		566.1
.1579		G5	3 WESTERN ROCKY MOUNTAINS		D9	PACIFIC		11.9
.1579		G5	3 WESTERN ROCKY MOUNTAINS		U6	WEST NORTH CENTRAL		1677.3
.2122		G6	4 EASTERN ROCKY MOUNTAINS		D6	WEST NORTH CENTRAL		603.9
.2122		G6	4 EASTERN ROCKY MOUNTAINS		U8	MOUNTAIN		1861.9
.0682		G7	5 WEST TEXAS - E. NEW MEXICO		D8	MOUNTAIN		2653.1
.1532		G7	5 WEST TEXAS - E. NEW MEXICO		D6	WEST NORTH CENTRAL		3507.9
.0881		G7	5 WEST TEXAS - E. NEW MEXICO		D7	WEST SOUTH CENTRAL		755.0
.2285		G8	6 WESTERN GULF BASIN		D8	MOUNTAIN		5201.0
.2285		G8	6 WESTERN GULF BASIN		U7	WEST SOUTH CENTRAL		14794.7
.1073		G9	6A GULF OF MEXICO		D7	WEST SOUTH CENTRAL		334.2
.1376		G9	6A GULF OF MEXICO		U3	SOUTH ATLANTIC		297.6
.0963		G9	6A GULF OF MEXICO		U5	EAST SOUTH CENTRAL		4190.0
.1073		G9	6A GULF OF MEXICO		D2	MID ATLANTIC		4508.7
.0183		G9	6A GULF OF MEXICO		D3	SOUTH ATLANTIC		2073.2
.1376		G9	6A GULF OF MEXICO		D4	EAST NORTH CENTRAL		3055.5
.1931		GA	7 MIDCONTINENT		D5	EAST SOUTH CENTRAL		50.3
.0815		GA	7 MIDCONTINENT		U6	WEST NORTH CENTRAL		9786.7
.1938		GA	7 MIDCONTINENT		D4	EAST NORTH CENTRAL		127.0
.1504		GC	8-9 MICH. BASIN - E. INTERIOR		D4	EAST NORTH CENTRAL		520.7
.1504		GC	10 APPALACHIANS		U2	MID ATLANTIC		808.0
.6711		GC	10 APPALACHIANS		D2	MID ATLANTIC		26.5
.6711		G2	1S SOUTH ALASKA		U9	PACIFIC		870.6
		G2	1S SOUTH ALASKA		D9	PACIFIC		102.6
		U1	1 ALASKA(EX NORTH SLOPE)		G2	1S SOUTH ALASKA		875.1
		U2	2 PACIFIC COAST STATES		G3	2 PACIFIC COAST STATES		428.2
		U3	2A PACIFIC OCEAN (EX ALASKA)		G4	2A PACIFIC OCEAN		121.1
		U4	3 WESTERN ROCKY MOUNTAINS		G5	3 WESTERN ROCKY MOUNTAINS		453.1
		U5	4 EASTERN ROCKY MOUNTAINS		G6	4 EASTERN ROCKY MOUNTAINS		1804.9
		U6	5 WEST TEXAS - E. NEW MEXICO		G7	5 WEST TEXAS - E. NEW MEXICO		4340.8
		U7	6 WESTERN GULF BASIN		G8	6 WESTERN GULF BASIN		2159.1
		U8	6A GULF OF MEXICO		G9	6A GULF OF MEXICO		829.8
		U9	7 MIDCONTINENT		GA	7 MIDCONTINENT		

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT		DESTINATION		QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE	NAME		
		G3	2 PACIFIC COAST STATES		R7	R PAD2B		.4
		G4	2A PACIFIC OCEAN		R1	R PAD1A		.1
		G5	3 WESTERN ROCKY MOUNTAINS		R1	R PAD1A		.1
		G6	4 EASTERN ROCKY MOUNTAINS		R1	R PAD1A		23.0
		G6	4 EASTERN ROCKY MOUNTAINS		R7	R PAD2B		6.1
		G7	5 WEST TEXAS - E. NEW MEXICO		R1	R PAD1A		6.2
		G8	6 WESTERN GULF BASIN		R1	R PAD1A		56.9
		G8	6 WESTERN GULF BASIN		R5	R PAD5		244.2
		G9	6A GULF OF MEXICO		R1	R PAD1A		17.5
		GA	7 MIDCONTINENT		R1	R PAD1A		148.9
		GA	7 MIDCONTINENT		R6	R PAD1B		120.1
		GB	8-9 MICH. BASIN - E. INTERIOR		R1	R PAD1A		.2
		GC	10 APPALACHIANS		R7	R PAD2B		1.1
		U2	2 PACIFIC COAST STATES		R2	R PAD2A		15.7
		U3	2A PACIFIC OCEAN (EX ALASKA)		R2	R PAD2A		10.7
		U4	3 WESTERN ROCKY MOUNTAINS		R7	R PAD2B		11.2
		U5	4 EASTERN ROCKY MOUNTAINS		R2	R PAD2A		3.3
		U6	5 WEST TEXAS - E. NEW MEXICO		R1	R PAD1A		25.4
		U7	6 WESTERN GULF BASIN		R1	R PAD1A		85.5
		U7	6 WESTERN GULF BASIN		R2	R PAD2A		152.0
		U7	6 WESTERN GULF BASIN		R3	R PAD3		46.5
		U8	6A GULF OF MEXICO		R1	R PAD1A		66.1
		U8	6A GULF OF MEXICO		R4	R PAD4		42.7
		U9	7 MIDCONTINENT		R2	R PAD2A		3.5
		UA	8-9-10 MICH. BAS. E. INT. APP.		R1	R PAD1A		8.6
		UB	11 ATLANTIC COAST		R1	R PAD1A		.1
		UC	11A ATLANTIC OCEAN		R3	R PAD3		2.5
								5.1

TOTAL 1103.4

FG FUEL GAS REFINERY

RESOURCE REQUIREMENTS

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

RESOURCE	ACTIVITY		CONSTRAINT		MARGINAL PRICE(75\$)	
	CURR.	CUML.	CURR.	CUML.	CURR.	CUML.
CF	DRILLING FEET(MILLIONS)		*FREE*	*FREE*		
YT	TOTAL INVESTMENT (MMS PER UNIT)	26251.43	2036.93	*FREE*	*FREE*	
		247439.44				

1985 REFERENCE CASE  
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 DATE & REVISION..... DEC15-1  
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MATERIAL		LOCATION		TRANSPORT		DESTINATION		QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE	NAME		
.0378		0A U	8-9-10 MICH, BAS, E, INT, APP.		GC G	10 APPALACHIANS		207.4
.0921		0B U	11 ATLANTIC COAST		GD G	11 ATLANTIC COAST		55.7
.8965		0C U	11A ATLANTIC OCEAN		GE G	11A ATLANTIC OCEAN		110.8
.0314		0D U	NORTH SLOPE (ON - OFF)		G1 G	1N ALASKAN NORTH SLOPE		2287.6
.1722		0E U	WESTERN NORTHERN GREAT PLAINS		U8 U	MOUNTAIN		224.8
		0F U	SOUTH WEST		U6 U	WEST NORTH CENTRAL		224.8
		G1 G	1N ALASKAN NORTH SLOPE		D9 D	PACIFIC		2287.6
		GD G	11 ATLANTIC COAST		D2 D	MID ATLANTIC		55.7
		GE G	11A ATLANTIC OCEAN		D2 D	MID ATLANTIC		110.8

TOTAL 78409.6

EL ELECTRICITY (MMKWH/CD)

MATERIAL	LOCATION	TRANSMISSION	QUANTITY
4.1568	U1 U NORTH EAST	D1 D NORTH EAST	334.6
1.8794	U2 U MID ATLANTIC	D2 D MID ATLANTIC	1282.3
5.1688	U3 U SOUTH ATLANTIC	D3 D SOUTH ATLANTIC	1517.8
4.4896	U4 U EAST NORTH CENTRAL	D4 D EAST NORTH CENTRAL	1520.5
6.1903	U5 U EAST SOUTH CENTRAL	D5 D EAST SOUTH CENTRAL	792.7
3.6603	U6 U WEST NORTH CENTRAL	D6 D WEST NORTH CENTRAL	606.1
1.0880	U7 U WEST SOUTH CENTRAL	D7 D WEST SOUTH CENTRAL	878.3
7.0052	U8 U MOUNTAIN	D8 D MOUNTAIN	418.2
11.6448	U9 U PACIFIC	D9 D PACIFIC	948.5

TOTAL 8299.1

E1 ELEC BASE (MMKWH/CD)

E2 ELEC INTER (MMKWH/CD)

E3 ELEC PEAK (MMKWH/CD)

CO CONDENSATE (MB/CD)

MATERIAL	LOCATION	PIPELINE OR LOCAL	QUANTITY
.0000	G3 G 2 PACIFIC COAST STATES	R3 R PAD3	.1
.0000	G4 G 2A PACIFIC OCEAN	R2 R PAD2A	.1
.0000	G5 G 3 WESTERN ROCKY MOUNTAINS	R3 R PAD3	8.9
.0000	G5 G 3 WESTERN ROCKY MOUNTAINS	R4 R PAD4	1.6
.0000	G6 G 4 WESTERN ROCKY MOUNTAINS	R3 R PAD3	6.4

TABLE OF PRIMARY PRODUCTS THRU SYSTEM

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

MATERIAL		LOCATION		TRANSPORT		DESTINATION		QUANTITY
CODE	NAME	CODE	NAME	MODE	CODE	NAME		
.0000		G7 G 5	WEST TEXAS - E, NEW MEXICO		R1 R	PAD1A		5.5
.0000		G7 G 5	WEST TEXAS - E, NEW MEXICO		R7 R	PAD2B		22.8
.0000		G8 G 6	WESTERN GULF BASIN		R5 R	PAD5		132.5
.0000		G8 G 6	WESTERN GULF BASIN		R6 R	PAD1B		.6
.0000		G9 G 6A	GULF OF MEXICO		R1 R	PAD1A		37.6
.0000		G9 G 6A	GULF OF MEXICO		R5 R	PAD5		49.8
.0000		GA G 7	MIDCONTINENT		R1 R	PAD1A		11.8
.0000		GA G 7	MIDCONTINENT		R2 R	PAD2A		20.3
.0000		GA G 7	MIDCONTINENT		R3 R	PAD3		27.9
.0000		GB G 8-9	MICH, BASIN - E, INTERIOR		R7 R	PAD2B		.5
.0000		GC G 10	APPALACHIANS		R7 R	PAD2B		6.9

TOTAL 333.4

GL GAS LIQUIDS (MB/CD)

MATERIAL	LOCATION	PIPELINE OR LOCAL	QUANTITY
.0000	G3 G 2 PACIFIC COAST STATES	R5 R PAD5	.1
.0000	G4 G 2A PACIFIC OCEAN	R2 R PAD2A	.1
.0000	G5 G 3 WESTERN ROCKY MOUNTAINS	R5 R PAD5	6.4
.0000	G6 G 4 EASTERN ROCKY MOUNTAINS	R5 R PAD5	4.2
.0000	G7 G 5 WEST TEXAS - E, NEW MEXICO	R2 R PAD2A	16.5
.0000	G8 G 6 WESTERN GULF BASIN	R3 R PAD3	123.8
.0000	G9 G 6A GULF OF MEXICO	R2 R PAD2A	81.2
.0000	GA G 7 MIDCONTINENT	R1 R PAD1A	36.7
.0000	GB G 8-9 MICH, BASIN - E, INTERIOR	R1 R PAD1A	.5
.0000	GC G 10 APPALACHIANS	R6 R PAD1B	2.4
.0000	02 U 2 PACIFIC COAST STATES	R1 R PAD1A	5.2
.0000	03 U 2A PACIFIC OCEAN (EX ALASKA)	R5 R PAD5	8.3
.0000	04 U 3 WESTERN ROCKY MOUNTAINS	R2 R PAD2A	2.5
.0000	05 U 4 EASTERN ROCKY MOUNTAINS	R1 R PAD1A	6.5
.0000	06 U 5 W. TEXAS - E, NEW MEXICO	R1 R PAD1A	31.6
.0000	07 U 6 WESTERN GULF BASIN	R4 R PAD4	83.5
.0000	08 U 6A GULF OF MEXICO	R4 R PAD4	28.3
.0000	09 U 7 MIDCONTINENT	R1 R PAD1A	5.3

TOTAL 444.9

1985 REFERENCE CASE  
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 IMPORTS..... \$13

	QUANTITY	BTU FACTOR	PRODUCT
GAST	7538.5469		
NGH	17097.5977	5.2480	39562.2852
NGI	34471.8984	1.0320	17644.7109
ELCH	5164.9961	1.0320	35574.9844
ELCI	3102.5598	3.4120	17622.8648
ANTH	5.6648	3.4120	10585.9297
ANII	.6017	22.5000	127.4591
8ITH	8.2510	22.5000	14.5394
8ITI	393.2992	22.5000	185.1977
8IIT	134.0294	22.5000	8849.2422
LRGI	716.5020	22.5000	6.6170
LGH	266.7229	4.0100	537.6726
LGI	143.4560	4.0100	2873.1721
LGT	703.9338	4.0100	1069.5586
LPGI	1980.0298	4.0100	575.2664
JFT	163.7730	4.0100	2822.7742
KH	48.3994	5.5860	11060.4453
KI	2066.6499	5.6700	588.3926
DPLH	810.4500	5.6700	274.4243
DPLI	1352.3999	5.8250	11688.7344
DFLT	636.6418	5.8250	3555.8706
RFLH	778.0508	5.8250	7877.7266
RFLI	276.5798	6.2870	4002.5669
SGI	609.1599	6.2870	4891.6016
RMSG	40.4564	6.2870	1738.8572
PEI	180.6940	6.0000	3654.9595
RHPC	109.7570	6.0000	242.7383
HAPI	207.6680	6.0240	1088.5002
SNAP	110.5900	5.2480	661.1758
ASPH	512.6318	5.2480	1089.5264
LWI	130.7870	6.6360	580.3760
LWT	80.1516	5.8000	3401.8245
NGT	2153.3799	5.8000	758.5642
NGCB	39.8594	1.0320	464.8792
NGUC	2713.1399	1.0320	2222.2871
ELCT	11.5732	1.0320	41.1349
LGMS	13.6624	3.4150	2799.9592
DFMS	23.5192	4.0100	39.5225
DFMS	8.7164	5.8250	54.7862
RMMS	214.2380	6.2870	136.9993
INMC	192.6350	5.0000	54.8000
GASOLIN	1.0000	22.5000	1091.1499
DISTIL	1.0000	5.2480	4334.2852
RESID	1.0000	5.2480	5.2480
OTHFR	1.0000	6.2870	5.8250
HTL GAS	1.0000	5.2119	6.2870
NUCLEAP	1.0000	1.0320	5.2119
HYDRH	1.0000	10.0000	1.0320
SYNTH	1.0000	10.0000	10.0000
GEO	1.0000	1.0320	10.0000
CB	1.0000	10.0000	1.0320
CAU		21.5339	10.0000
CLU		22.7656	
CAS		20.5322	
		18.9400	

\*\*\* NOTE - THE CONVERSION COEFFICIENTS FOR NUCLEAR, HYDRO AND GEOTHERMAL POWER ARE ESTIMATES OF THE BTU CONSUMPTION PER BTU GENERATED FOR AN EQUIVALENT FUSSIL FUEL PLANT.

EXECUTIVE DATA SUMMARY

1985 REFERENCE CASE  
 MODEL..... 85BAU6A  
 DEMAND SCENARIO..... DB51215  
 DATE & REVISION..... DEC15-1  
 IMPORTS..... \$13

TABLE ONE

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS MILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY DISTRIBUTED BILLION KILOWATT HOURS
HOUSEHOLD & COMMERCIAL	5.30	1451.31	6240.62		1885.22
INDUSTRIAL	223.69	1531.11	13587.08		1132.43
TRANSPORTATION	.11	4150.47	785.98		4.22
ELECTRICAL GENERATION	716.14	433.87	2955.41	866.51	
SYNTHETICS	16.27		164.10		
TOTAL	961.51	7566.76	23404.99	866.51	3021.88





1. INTRODUCTION

This appendix presents selected financial data for all projects included in the program for each year. These figures are presented in the format of the data for each year as presented in Appendix 1. The data is presented in the format of the data for each year as presented in Appendix 1.

The project financial data is presented in Appendix 10 of the report and are similar to the data presented in Appendix 1. The data is presented in the format of the data for each year as presented in Appendix 1.

The supply schedule data is presented in Appendix 11 of the report and are similar to the data presented in Appendix 1. The data is presented in the format of the data for each year as presented in Appendix 1.

Appendix G

PIES SUMMARY TABLES

Table with multiple rows and columns, containing summary data for various categories. The text is very faint and difficult to read.

## Appendix G

### PIES SUMMARY TABLES

#### I. INTRODUCTION

This appendix presents selected forecast results for all scenarios examined in preparation of this report. These summaries are extracted from the detailed reports for each case, as explained in Appendix F. The data consist of key prices, domestic energy production by type, imports, and the full executive summaries across all products and sectors.

The prices given in these summary sheets appear on page 10 of the report and are quantity weighted averages by regions and, except for electricity, are wholesale prices at the city-gate. Appendix F (PIES Report: A Guide) presents a more complete discussion of price interpretations. In the case of coal, metallurgical coal, and natural gas the prices are those paid by industrial consumers. For electricity, it is the average delivered price paid by all consumers (industrial, residential, and commercial).

The supply quantities given in these summary sheets are found (possibly in different units) on pages 1.01, 4.15, and 5 of the report. The amounts reported under "Crude Production," obtained from oil wells, and "Co-Products," obtained from gas wells, are combined to obtain "Total Domestic Crude." Similarly, "Natural Gas Production," the primary product of gas wells, is added to "Associated Gas," obtained from oil wells, to yield "Total Domestic NG." The production estimates do not include synthetic fuels, shale oil, refinery gains, or other minor contributions and, therefore, the totals are slightly less than the consumption figures which are given in the executive summaries. The individual scenario assumptions are explained in more detail in Appendix E. The letters BAU stand for Business as Usual.

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1985 REFERENCE CASE

This consists of BAU demand and supply cases, combined into a scenario to illustrate technical changes in PIES between 1974 and the present; this combination of supply and demand cases is the one most nearly comparable to the 1974 version of the BAU scenario.

Imported Oil Price	\$8	\$13	\$16
Demand Region Prices			
Coal (\$/ton)	26.47	27.82	28.11
Gasoline (\$/bbl)	10.33	14.41	17.60
Distillate (\$/bbl)	9.84	14.16	16.95
Other Refined (\$/bbl)	10.96	16.12	19.22
Residual (\$/bbl)	10.08	14.15	16.66
Coal, Metallurgical (\$/ton)	27.28	27.28	27.28
Natural Gas (\$/Tcf)	1.79	2.03	2.07
Electricity (mills/kWh)	28.17	29.73	30.15

Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	9660.7	11981.3	13052.6
Co-Products (MB/CD)	1706.4	1881.7	1907.1
Total Domestic Crude (MB/CD)	11367.1	13863.0	14959.7
Total Imported Crude (MB/CD)	13507.0	5862.4	3297.0
Natural Gas Production (Tcf/yr)	16.28	17.36	17.38
Associated Gas (Tcf/yr)	4.12	4.91	5.13
Total Domestic NG (Tcf/yr)	20.40	22.27	22.52
Total Imported NG (Tcf/yr)	1.28	1.28	1.28
Coal Production (MMT/yr)	894.29	1039.34	1085.07

1985 REFERENCE CASE  
UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES  
IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	HOUSEHOLD & COMMERCIAL	INDUSTRIAL	TRANSPORTATION	ELECTRICAL GENERATION	SYNTHETICS	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS
1974							11.42	1057.80	7341.75		992.95
							157.77	1158.10	10072.05		710.77
							.08	3293.70	668.83		5.07
							389.70	559.90	3429.23	112.76	
							TOTAL.....	554.97	6069.50	21511.86	1706.76
1985	\$8						5.18	1760.02	8390.67		1841.27
							215.83	1670.23	13948.03		1108.26
							.11	4515.46	630.80		4.22
							578.73	1371.94	535.23	793.57	
							16.27		164.10		
							TOTAL.....	816.13	9317.65	21541.83	2953.76
1985	\$13						5.30	1451.51	6240.62		1895.22
							225.69	1531.11	13387.08		1132.43
							.11	4150.47	785.96		4.22
							710.14	435.67	2955.41	866.51	
							16.27		164.10		
							TOTAL.....	961.51	7766.76	23404.99	3021.88
1985	\$16						5.31	1371.41	6299.15		1911.76
							225.23	1469.42	13617.71		1153.09
							.11	3961.88	790.57		4.22
							706.48	315.73	3181.66	867.70	
							16.27		164.10		
							TOTAL.....	1007.41	7069.44	23695.18	3066.07

  

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO- LEUM	NATURAL GAS	TOTAL FOSSIL FUEL	NUCLEAR POWER	GE- D= HYDRO= SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS
1974		309	6061	7518	13888						
		4356	6153	10314	20823			37	13888	13888	3388
		2	17720	685	18407			20860	20860	2425	23285
		8540	3480	3512	15532	1202	3253	18407	18407	17	18424
		TOTAL.....	13207	33414	22026	6850	1202	3296	73142	73142	58965
1985	\$8	114	9969	6595	16678						
		4751	9627	14394	28173			10676	10676	6282	22960
		2	24319	857	25176			24173	24173	3741	31954
		12499	8336	553	21388	7936	3940	25176	25176	14	25193
		261		169	92			33264	33264	16076	
		TOTAL.....	17628	51650	22231	91509	7936	3940	103293	103293	40190
1985	\$13	114	8232	6440	14787						
		4837	8236	14022	27075			14787	14787	6432	21219
		2	22367	812	23181			27075	27075	3864	30939
		15301	2696	4030	21126	8665	3940	23181	23181	14	23195
		261		169	92			33732	33732	10311	
		TOTAL.....	20575	41532	24134	8665	3940	98860	98774	10461	75353
1985	\$16	114	7510	6491	14114						
		4837	7878	14053	25769			14114	14114	6523	20637
		2	21361	816	22179			25769	25769	3924	30693
		16292	1960	3263	21515	8677	3940	22179	22179	14	22194
		261		169	92			34133	34133	10461	
		TOTAL.....	21507	38709	24453	8669	3940	97264	97195	73524	



### 1985 CONSERVATION CASE

This scenario reflects a full set of conservation actions on the demand side, including auto efficiency standards, van pooling, thermal efficiency standards, appliance efficiency improvements, accelerated industrial energy conservation, improved airline load factors, electric utility load management, and elimination of gas pilot lights. On the supply side, a BAU case is assumed.

Imported Oil Price	Demand Region Prices		
	\$8	\$13	\$16
Coal (\$/ton)	27.22	27.61	28.27
Gasoline (\$/bbl)	8.98	14.26	16.84
Distillate (\$/bbl)	9.47	14.02	16.31
Other Refined (\$/bbl)	11.02	16.22	19.38
Residual (\$/bbl)	9.51	13.96	15.84
Coal, Metallurgical (\$/ton)	27.28	27.28	27.28
Natural Gas (\$/Tcf)	1.62	1.87	1.87
Electricity (mills/kWh)	25.84	27.29	27.45

### Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	9257.3	11981.3	13052.6
Co-Products (MB/CD)	1845.4	2010.9	2044.4
Total Domestic Crude (MB/CD)	11102.7	13992.3	15097.0
Total Imported Crude (MB/CD)	10366.4	3771.1	1202.4
Natural Gas Production (Tcf/yr)	16.42	16.87	17.07
Associated Gas (Tcf/yr)	4.02	4.91	5.13
Total Domestic NG (Tcf/yr)	20.44	21.78	22.20
Total Imported NG (Tcf/yr)	1.28	1.28	1.28
Coal Production (MMT/yr)	929.18	1006.31	1095.80

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1985 CONSERVATION CASE

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS	
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10		992.95	
		TRANSPORTATION	.08	3293.70	10072.05		710.77
		ELECTRICAL GENERATION	389.70	559.90	668.83	112.76	5.07
		SYNTHETICS					
TOTAL		558.97	4069.50	21511.86	112.76	1708.78	
1985	\$8	HOUSEHOLD & COMMERCIAL	5.19	1402.62	5592.82		
		INDUSTRIAL	207.73	1603.72	13289.32		1807.23
		TRANSPORTATION	.11	3934.19	875.56		1092.23
		ELECTRICAL GENERATION	621.94	947.79	2001.41	749.54	4.22
		SYNTHETICS	16.27		164.10		
TOTAL		851.24	8088.31	21595.00	749.54	2903.68	
1985	\$13	HOUSEHOLD & COMMERCIAL	5.25	1316.00	5383.96		
		INDUSTRIAL	215.41	1467.81	12818.39		1854.15
		TRANSPORTATION	.11	3697.84	810.22		1120.89
		ELECTRICAL GENERATION	691.44	342.85	4077.40	817.33	4.22
		SYNTHETICS	16.27		164.10		
TOTAL		928.49	8824.49	22925.88	817.33	2979.26	
1985	\$16	HOUSEHOLD & COMMERCIAL	5.27	1218.82	5687.51		
		INDUSTRIAL	215.51	1419.02	12801.69		1881.98
		TRANSPORTATION	.11	3614.84	823.11		1136.49
		ELECTRICAL GENERATION	780.96	75.35	4854.42	808.58	4.22
		SYNTHETICS	16.27		164.10		
TOTAL		1018.13	8328.03	23882.62	808.58	3022.69	

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO-LEUM	NATURAL GAS	TOTAL FOSSIL FUEL	NUCLEAR POWER	GED-HYDR-SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6061	7518	13888			13888	13888	3388	17276
		INDUSTRIAL	4356	6153	10314	20823			20823	20823	2425	23248
		TRANSPORTATION	2	17720	685	18407			18407	18407	17	18424
		ELECTRICAL GENERATION	8540	3460	3512	15532	1202	3253	19987	19987	5830	
		SYNTHETICS										
TOTAL		13207	33414	22028	68650	1202	3240	73142	73142		56965	
1985	\$8	HOUSEHOLD & COMMERCIAL	114	9033	5772	14918			14918	14918	6166	21084
		INDUSTRIAL	4567	8632	13715	26914			26914	26914	3727	30641
		TRANSPORTATION	2	21256	904	22162			22162	22162	14	22176
		ELECTRICAL GENERATION	13374	5857	2065	21297	7495	3940	32732	32732	9907	
		SYNTHETICS	261		169	92			92	92		
TOTAL		18319	44777	22288	85382	7495	3940	94818	94728		73991	
1985	\$13	HOUSEHOLD & COMMERCIAL	114	7429	5556	13099			13099	13099	6326	19425
		INDUSTRIAL	4680	7858	13229	25766			25766	25766	3878	29644
		TRANSPORTATION	2	19977	830	20816			20816	20816	14	20830
		ELECTRICAL GENERATION	14849	2152	4208	21209	8173	3940	33322	33322	10165	
		SYNTHETICS	261		169	92			92	92		
TOTAL		19907	37415	23654	80981	8173	3940	93095	93003		69846	
1985	\$16	HOUSEHOLD & COMMERCIAL	114	6893	5642	12649			12649	12649	6421	19070
		INDUSTRIAL	4664	7584	13315	25563			25563	25563	3878	29441
		TRANSPORTATION	2	19527	849	20379			20379	20379	14	20393
		ELECTRICAL GENERATION	16733	470	4597	21801	8086	3940	33826	33826	10313	
		SYNTHETICS	261		169	92			92	92		
TOTAL		21775	34474	24230	80483	8086	3940	92509	92417		68804	

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### 1985 ACCELERATED CASE

On the supply side, this scenario is designed to illustrate the effects of an aggressive but achievable effort to increase domestic energy resource development.

On the demand side, this scenario reflects the energy conservation actions described in the Conservation Scenario.

Imported Oil Price                                       \$8                                       \$13                                       \$16

#### Demand Region Prices

Coal (\$/ton)	27.09	27.26	27.26
Gasoline (\$/bbl)	9.44	13.72	13.23
Distillate (\$/bbl)	9.35	13.49	13.57
Other Refined (\$/bbl)	11.14	16.39	19.62
Residual (\$/bbl)	9.26	12.96	13.41
Coal, Metallurgical (\$/ton)	27.28	27.28	27.28
Natural Gas (\$/Tcf)	1.33	1.34	1.27
Electricity (mills/kWh)	25.43	25.96	26.18

#### Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	10919.2	13997.1	15138.0
Co-Products (MB/CD)	1739.7	2015.6	2089.7
Total Domestic Crude (MB/CD)	12858.9	16012.7	17227.7
Total Imported Crude (MB/CD)	7316.4	1436.8	0

Natural Gas Production (Tcf/yr)	18.12	18.68	18.61
Associated Gas (Tcf/yr)	5.09	5.71	6.11
Total Domestic NG (Tcf/yr)	23.21	24.39	24.72
Total Imported NG (Tcf/yr)	1.28	1.28	1.28

Coal Production (MMT/yr)	982.14	1013.42	1017.51
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#### UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS	
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10	10072.05	992.95	
		TRANSPORTATION	.08	3293.70	668.83		710.77
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76	5.07
		SYNTHETICS					
		TOTAL.....	556.97	6069.50	21511.86	112.76	1708.78
1985 \$8		HOUSEHOLD & COMMERCIAL	5.22	1602.52	6110.35		
		INDUSTRIAL	205.78	1591.87	14181.34		1803.77
		TRANSPORTATION	.11	3916.10	1011.18		1091.43
		ELECTRICAL GENERATION	643.64	495.59	3461.22	760.42	4.22
		SYNTHETICS	52.44	18.25	492.31		
		TOTAL.....	907.19	7507.83	24271.78	760.42	2899.43
1985 \$13		HOUSEHOLD & COMMERCIAL	5.22	1817.44	6271.28		
		INDUSTRIAL	207.98	1450.14	14524.29		1850.58
		TRANSPORTATION	.11	3712.04	1037.49		1124.88
		ELECTRICAL GENERATION	642.88	496.32	3304.88	800.82	4.22
		SYNTHETICS	52.44	18.25	492.31		
		TOTAL.....	908.63	6794.24	25430.24	800.82	2900.48
1985 \$16		HOUSEHOLD & COMMERCIAL	5.22	1624.14	6380.00		
		INDUSTRIAL	207.78	1446.45	14440.83		1800.81
		TRANSPORTATION	.11	3708.59	1022.43		1124.29
		ELECTRICAL GENERATION	642.44	496.09	3470.54	814.14	4.22
		SYNTHETICS	52.44	18.25	492.31		
		TOTAL.....	908.07	6797.51	25887.17	814.14	2910.32

#### UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETROLEUM	NATURAL GAS	TOTAL FUSSIL FUEL	NUCLEAR POWER	GED-HYDRO-SOLAR POWER	TOTAL GROSS SECTOR ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6061	7518	13888			13888	13888	3388	17276
		INDUSTRIAL	4356	6153	10314	20823			20860	20860	2425	23285
		TRANSPORTATION	2	17720	685	18407		37	18407	18407	17	18424
		ELECTRICAL GENERATION	8540	3480	3512	15532	1202	3253	19987	19987	5830	
		SYNTHETICS										
		TOTAL.....	13207	33414	22028	68850	1202	3290	73142	73142		58985
1985 \$8		HOUSEHOLD & COMMERCIAL	114	9038	6306	15458			15458	15458	6154	21613
		INDUSTRIAL	4501	8571	14635	27707			27707	27707	3724	31431
		TRANSPORTATION	2	21161	1044	22207			22207	22207	14	22222
		ELECTRICAL GENERATION	13875	3093	3572	20540	7604	4382	32526	32526	9893	
		SYNTHETICS	946	106	508	332			332			
		TOTAL.....	19438	41757	25048	86248	7604	4382	98230	97898		75265
1985 \$13		HOUSEHOLD & COMMERCIAL	114	7449	6472	14020			14020	14020	6341	20361
		INDUSTRIAL	4503	7802	14783	27148			27148	27148	3837	31085
		TRANSPORTATION	2	20054	1071	21127			21127	21127	14	21142
		ELECTRICAL GENERATION	14444	1516	4446	20410	8608	4382	33481	33481	10145	
		SYNTHETICS	946	106	508	332			332			
		TOTAL.....	21019	36718	26705	83062	8608	4382	98122	97441		72304
1985 \$16		HOUSEHOLD & COMMERCIAL	114	7313	6540	14020			14020	14020	6417	20437
		INDUSTRIAL	4504	7727	14911	27147			27147	27147	3863	31060
		TRANSPORTATION	2	20051	1047	21130			21130	21130	14	21145
		ELECTRICAL GENERATION	14532	1612	4619	20782	8742	4382	33866	33866	10245	
		SYNTHETICS	946	106	508	332			332			
		TOTAL.....	21132	36579	26704	83440	8742	4382	98544	98233		72642

1985 ACCELERATED SUPPLY, BAU  
DEMAND WITHOUT LOAD MANAGEMENT

On the supply side, this scenario is designed to illustrate the effects of an aggressive but achievable effort to increase domestic energy resource development.

On the demand side, this scenario reflects the BAU case.

No load management is used to reduce peak demand.

Imported Oil Price	Demand Region Prices		
	\$8	\$13	\$16
Coal (\$/ton)	26.45	27.63	27.64
Gasoline (\$/bbl)	9.95	14.29	15.48
Distillate (\$/bbl)	9.69	13.86	15.32
Other Refined (\$/bbl)	11.02	16.30	17.96
Residual (\$/bbl)	9.73	13.38	15.49
Coal, Metallurgical (\$/ton)	27.28	27.28	27.28
Natural Gas (\$/Tcf)	1.51	1.48	1.49
Electricity (mills/kWh)	27.60	28.79	28.86

Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	10919.2	15448.7	16466.6
Co-Products (MB/CD)	1978.0	2127.9	2129.6
Total Domestic Crude (MB/CD)	12897.2	17576.7	18596.2
Total Imported Crude (MB/CD)	10041.7	1728.1	0
Natural Gas Production (Tcf/yr)	18.69	19.04	19.07
Associated Gas (Tcf/yr)	5.09	6.25	6.43
Total Domestic NG (Tcf/yr)	23.78	25.29	25.50
Total Imported NG (Tcf/yr)	1.28	1.28	1.28
Coal Production (MMT/yr)	925.49	1017.36	1027.91

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1985 ACCEL SUPPLY, BAU DEMD W/O LD MGT

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS	
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10	10072.05	992.95	
		TRANSPORTATION	.08	3293.70	688.83		710.77
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76	5.07
		SYNTHETICS					
TOTAL		559.97	8069.50	21511.86	112.76	1706.76	
1985	\$8	HOUSEHOLD & COMMERCIAL	5.16	1760.04	6455.91		1837.41
		INDUSTRIAL	212.55	1065.99	14782.05		1183.25
		TRANSPORTATION	.11	4555.01	943.69		4.22
		ELECTRICAL GENERATION	380.34	662.60	2694.54	939.84	
		SYNTHETICS	52.44		492.51		
TOTAL		650.60	8025.39	24005.66	939.84	2944.88	
1985	\$13	HOUSEHOLD & COMMERCIAL	5.22	1446.12	7209.28		1484.73
		INDUSTRIAL	215.15	1517.28	15073.04		1133.22
		TRANSPORTATION	.11	4150.69	987.15		4.22
		ELECTRICAL GENERATION	369.59	290.36	3549.50	959.56	
		SYNTHETICS	52.44		492.51		
TOTAL		642.52	7395.20	26317.69	959.56	3022.17	
1985	\$16	HOUSEHOLD & COMMERCIAL	5.26	1370.29	7249.30		1491.23
		INDUSTRIAL	217.67	1478.55	15151.86		1142.42
		TRANSPORTATION	.11	4064.70	995.11		4.22
		ELECTRICAL GENERATION	377.59	267.09	3647.08	964.17	
		SYNTHETICS	52.44		492.51		
TOTAL		651.04	7144.18	26551.42	964.17	3037.47	

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETROLEUM	NATURAL GAS	TOTAL FOSSIL FUEL	NUCLEAR POWER	GEO-HYDRO-SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS		
1974		HOUSEHOLD & COMMERCIAL	309	8061	7518	13888							
		INDUSTRIAL	4356	8153	10314	20823			13888	13888	3388	17276	
		TRANSPORTATION	2	17720	685	18407			37	20860	20860	2425	23285
		ELECTRICAL GENERATION	8540	3480	3512	15532	1202	3253	19987	18407	18407	17	18424
		SYNTHETICS											5830
TOTAL		13207	33414	22028	68650	1202	3290	73142	73142		58965		
1985	\$8	HOUSEHOLD & COMMERCIAL	374	9976	7158	17248							
		INDUSTRIAL	4700	9010	15255	28966			17248	17248	6269	43517	
		TRANSPORTATION	2	24528	974	25504			28966	28966	3704	32730	
		ELECTRICAL GENERATION	12557	4034	2761	19572	4398	4382	25504	25504	14	25519	
		SYNTHETICS	946	106	508	332			33153	33153	10048		
TOTAL		18320	47442	25000	91422	4398	4382	105202	104871		81766		
1985	\$13	HOUSEHOLD & COMMERCIAL	314	4211	7431	15756							
		INDUSTRIAL	4712	9166	15555	28424			15756	15756	6431	22186	
		TRANSPORTATION	2	22417	1019	23438			28424	28424	3867	32290	
		ELECTRICAL GENERATION	14379	1901	1663	19943	9596	4382	23438	23438	14	23452	
		SYNTHETICS	946	106	508	332			33153	33153	10312		
TOTAL		20143	40480	27160	87782	9596	4382	101770	101436		77920		
1985	\$16	HOUSEHOLD & COMMERCIAL	314	7771	7491	15366							
		INDUSTRIAL	4720	7936	15657	28293			15366	15366	6453	21819	
		TRANSPORTATION	2	21950	1028	22981			28293	28293	3898	32191	
		ELECTRICAL GENERATION	14562	1793	1664	20119	9642	4382	22981	22981	14	22975	
		SYNTHETICS	946	106	508	332			34143	34143	10365		
TOTAL		20304	30525	27491	87970	9642	4382	101040	100763		76965		



1985 \$7.50 REGULATION CASE

This scenario is designed to illustrate principally the domestic supply, demand and import impacts of price regulation and controls. The scenario's supply case assumes that price controls and regulations are in effect for all domestic oil and gas. Domestic oil and gas are regulated at approximately \$7.50/barrel and \$1.15/Mcf, respectively, wellhead prices 1975 year of denomination. Imports of oil and gas are unconstrained at world prices. Other assumptions concerning supply are identical with the BAU supply case. The demand case assumed is BAU.

Imported Oil Price	\$13	\$16
Demand Region Prices		
Coal (\$/ton)	27.40	27.77
Gasoline (\$/bbl)	12.26	13.66
Distillate (\$/bbl)	11.98	13.31
Other Refined (\$/bbl)	13.33	14.92
Residual (\$/bbl)	12.13	13.38
Coal, Metallurgical (\$/ton)	27.28	27.28
Natural Gas (\$/Tcf)	1.83	1.98
Electricity (mills/kWh)	29.07	29.55

Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	8246.0	8246.0
Co-Products (MB/CD)	1643.9	1647.6
Total Domestic Crude (MB/CD)	9889.9	9893.6
Total Imported Crude (MB/CD)	11280.8	10069.7
Natural Gas Production (Tcf/yr)	13.47	13.51
Associated Gas (Tcf/yr)	3.49	3.49
Total Domestic NG (Tcf/yr)	16.96	17.00
Total Imported NG (Tcf/yr)	7.29	7.08
Coal Production (MMT/yr)	974.73	1021.89

1985 \$7.50 REGULATION CASE  
UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES  
IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75	992.95
		INDUSTRIAL	157.77	1158.10	10072.05	710.77
		TRANSPORTATION	.08	3293.70	608.83	5.07
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76
		SYNTHETICS				
TOTAL		558.97	6069.50	21511.86	112.76	1708.78
1985	\$13	HOUSEHOLD & COMMERCIAL	5.20	1589.27	6512.00	1859.39
		INDUSTRIAL	217.19	1591.55	13975.00	1118.24
		TRANSPORTATION	.11	4324.94	824.41	4.22
		ELECTRICAL GENERATION	658.01	572.27	3023.09	867.97
		SYNTHETICS	16.27		164.10	
TOTAL		896.79	8083.02	24176.54	867.97	2981.86
1985	\$16	HOUSEHOLD & COMMERCIAL	5.31	1500.68	6552.05	1876.57
		INDUSTRIAL	222.82	1554.05	13704.58	1129.78
		TRANSPORTATION	.11	4210.06	797.46	4.22
		ELECTRICAL GENERATION	699.42	396.15	3326.00	867.86
		SYNTHETICS	16.27		164.10	
TOTAL		943.93	7675.54	24023.58	867.86	3010.57

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO-LEUM	NATURAL GAS	TOTAL FUSSEL FUEL	NUCLEAR POWER	GEO-MYDNU-SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6061	7518	13888		13888	13888	3388	17276	
		INDUSTRIAL	4356	6153	10314	20823		37	20860	20860	2425	23285
		TRANSPORTATION	2	17720	685	18407			18407	18407	17	18424
		ELECTRICAL GENERATION	8540	3480	3512	15532	1202	3253	19987	19987	5830	
		SYNTHETICS										
TOTAL		13207	33614	22028	66650	1202	3290	73142	73142		58085	
1985	\$13	HOUSEHOLD & COMMERCIAL	114	9011	6721	15846		15846	15846	6344	22191	
		INDUSTRIAL	4768	8582	14443	27772		27772	27772	3815	31587	
		TRANSPORTATION	2	23326	856	24184			24184	24184	14	24198
		ELECTRICAL GENERATION	14151	3497	5120	20768	6680	3940	33387	33387	10174	
		SYNTHETICS	201		169	92			92			
TOTAL		19246	44415	24950	66661	6680	3940	101281	101190		77976	
1985	\$16	HOUSEHOLD & COMMERCIAL	114	8544	6555	15213		15213	15213	6403	21616	
		INDUSTRIAL	4768	8370	14148	27304		27304	27304	3855	31159	
		TRANSPORTATION	2	22710	823	23543			23543	23543	14	23557
		ELECTRICAL GENERATION	15051	2459	3435	20945	6679	3940	33564	33564	10272	
		SYNTHETICS	201		169	92			92			
TOTAL		20215	42090	24792	67098	6679	3940	99716	99625		76333	

1985 \$9 REGULATION CASE

This scenario is designed to illustrate principally the domestic supply, demand and import impacts of price regulation and controls. The scenario's supply case assumes that price controls and regulations are in effect for all domestic oil and gas. Domestic oil and gas are regulated at approximately \$9/barrel and \$1.25/Mcf, respectively wellhead prices, 1975 year of denomination Imports of oil and gas are unconstrained at world prices. Other assumptions concerning supply are identical with the BAU supply case. The demand case assumed is BAU.

Imported Oil Price

\$13      \$16

Demand Region Prices

Coal (\$/ton)	27.63	27.81
Gasoline (\$/bbl)	12.39	13.78
Distillate (\$/bbl)	12.19	13.42
Other Refined (\$/bbl)	13.96	15.20
Residual (\$/bbl)	12.29	13.42
Coal, Metallurgical (\$/ton)	27.28	27.28
Natural Gas (\$/Tcf)	1.84	1.92
Electricity (mills/kWh)	28.88	29.59

Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	9717.9	9717.9
Co-Products (MB/CD)	1736.4	1736.4
Total Domestic Crude (MB/CD)	11454.3	11454.3
Total Imported Crude (MB/CD)	9364.8	8326.4
Natural Gas Production (Tcf/yr)	14.12	14.12
Associated Gas (Tcf/yr)	4.12	4.12
Total Domestic NG (Tcf/yr)	18.24	18.24
Total Imported NG (Tcf/yr)	6.15	6.19
Coal Production (MMT/yr)	995.25	1024.37

1985 \$9 REGULATION CASE  
UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES  
IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	- 7341.75	992.95
		INDUSTRIAL	157.77	1156.10	10072.05	710.77
		TRANSPORTATION	.08	3293.70	666.83	5.07
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76
		SYNTHETICS				
TOTAL		558.97	6069.50	21517.66	112.76	1708.78
1985	\$13	HOUSEHOLD & COMMERCIAL	5.25	1551.23	6603.50	1855.18
		INDUSTRIAL	219.68	1574.30	14120.05	1113.26
		TRANSPORTATION	.11	4283.79	850.06	4.22
		ELECTRICAL GENERATION	676.29	527.44	2939.70	868.97
		SYNTHETICS	18.27		184.10	
TOTAL		917.61	7936.75	24304.20	868.97	2978.67
1985	\$16	HOUSEHOLD & COMMERCIAL	5.31	1491.00	6336.58	1880.44
		INDUSTRIAL	222.91	1544.35	13680.34	1131.39
		TRANSPORTATION	.11	4104.44	794.59	4.22
		ELECTRICAL GENERATION	702.14	356.24	3575.91	867.83
		SYNTHETICS	18.27		184.10	
TOTAL		948.84	7596.74	24223.32	867.83	3016.06

  

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO- LEUM	NATURAL GAS	TOTAL FOSSIL FUEL	NUCLEAR POWER	Geo- HYDRO- SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6661	7518	13888			13888	13888	3388	17276
		INDUSTRIAL	4356	8153	10314	20823			20860	20860	2425	23285
		TRANSPORTATION	2	17720	685	18407		37	18407	18407	17	18424
		ELECTRICAL GENERATION	8500	3480	3512	15532	1202	3253	19987	19987	5830	
		SYNTHETICS										
TOTAL		13207	33414	22028	68650	1202	3290	73142	73142		58085	
1985	\$13	HOUSEHOLD & COMMERCIAL	114	8799	6815	15728			15728	15728	6330	22058
		INDUSTRIAL	4771	8485	14572	27828			27828	27828	3798	31626
		TRANSPORTATION	2	23074	877	23959			23959	23959	14	23973
		ELECTRICAL GENERATION	14552	3241	3034	20826	8690	3940	33456	33456	10143	
		SYNTHETICS	261		189	92			92			
TOTAL		19700	43604	25128	58452	8690	3940	101062	100970		77457	
1985	\$16	HOUSEHOLD & COMMERCIAL	114	8456	6539	15110			15110	15110	6416	21526
		INDUSTRIAL	4788	8335	14118	27241			27241	27241	3860	31101
		TRANSPORTATION	2	22624	820	23446			23446	23446	14	23461
		ELECTRICAL GENERATION	15104	2208	3690	21002	8678	3940	33620	33620	10201	
		SYNTHETICS	261		189	92			92			
TOTAL		20269	41623	24998	56891	8678	3940	99500	99417		76088	

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### 1985 ELECTRIFICATION CASE

This scenario is designed to show the impact upon the growth of electricity of a strategy to promote increased electrification of energy end-use. On the supply side, the accelerated coal-nuclear case is used; the demand case embodies increased electrification in the household, commercial and industrial sectors.

Imported Oil Price                      \$8                      \$13                      \$16

#### Demand Region Prices

Coal (\$/ton)	27.37	27.89	27.91
Gasoline (\$/bbl)	9.78	14.49	17.48
Distillate (\$/bbl)	9.23	14.01	16.80
Other Refined (\$/bbl)	10.83	16.26	19.29
Residual (\$/bbl)	9.51	13.59	16.40
Coal, Metallurgical (\$/ton)	27.28	27.28	27.28
Natural Gas (\$/Tcf)	1.63	1.80	1.74
Electricity (mills/kWh)	28.81	29.98	30.21

#### Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	9595.4	11981.3	13052.6
Co-Products (MB/CD)	1697.4	1835.8	1874.7
Total Domestic Crude (MB/CD)	11292.8	13817.1	14927.3
Total Imported Crude (MB/CD)	11244.9	4918.7	2716.0
Natural Gas Production (Tcf/yr)	16.15	16.37	16.57
Associated Gas (Tcf/yr)	4.10	4.91	5.13
Total Domestic NG (Tcf/yr)	20.25	21.28	21.70
Total Imported NG (Tcf/yr)	1.28	1.28	1.28
Coal Production (MMT/yr)	1153.25	1258.16	1280.46

### 1985 ELECTRIFICATION CASE UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS	
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10	10072.05	992.95	
		TRANSPORTATION	.08	3293.70	668.83		710.77
		ELECTRICAL GENERATION	389.70	559.90	3929.23	112.76	5.07
		SYNTHETICS					
TOTAL		558.97	6069.50	21511.66	112.76	1706.78	
1985	\$8	HOUSEHOLD & COMMERCIAL	5.33	1492.47	6733.11		
		INDUSTRIAL	276.06	1688.71	12693.45		1997.91
		TRANSPORTATION	.11	4571.23	759.40		1226.69
		ELECTRICAL GENERATION	744.18	759.78	1688.95	974.34	4.22
		SYNTHETICS	52.44	18.25	492.31		
TOTAL		1078.13	6093.94	21382.61	974.34	3230.62	
1985	\$13	HOUSEHOLD & COMMERCIAL	5.40	1219.75	6629.94		
		INDUSTRIAL	284.23	1529.65	12436.65		2073.09
		TRANSPORTATION	.11	4144.73	728.26		1273.75
		ELECTRICAL GENERATION	840.83	302.56	3131.64	492.89	4.22
		SYNTHETICS	52.44	18.25	492.31		
TOTAL		1183.01	7109.44	22427.23	492.89	3351.07	
1985	\$16	HOUSEHOLD & COMMERCIAL	5.40	1129.57	6790.46		
		INDUSTRIAL	284.16	1463.82	12604.50		2044.48
		TRANSPORTATION	.11	3987.58	751.71		1266.64
		ELECTRICAL GENERATION	841.56	302.43	3158.44	493.50	4.22
		SYNTHETICS	52.44	18.25	492.31		
TOTAL		1283.65	6819.46	22813.74	493.50	3367.34	

### UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO- LEUM	NATURAL GAS	TOTAL FUSIBLE FUEL	NUCLEAR POWER	GEO- HYDRO- SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	4061	7518	13888			13888	13888	3388	17276
		INDUSTRIAL	4356	6153	10314	20823		37	20860	20860	2425	23285
		TRANSPORTATION	2	17720	685	18407			18407	18407	17	18424
		ELECTRICAL GENERATION	8540	3480	3512	15532	1202	3253	19987	19987	17	18424
		SYNTHETICS										5830
TOTAL		13207	33414	22028	68650	1202	3200	73142	73142		58985	
1985	\$8	HOUSEHOLD & COMMERCIAL	114	8388	6909	15451			15451	15451	4817	22268
		INDUSTRIAL	5911	9139	13100	28150			28150	28150	4192	32342
		TRANSPORTATION	2	24616	784	25402			25402	25402	14	25417
		ELECTRICAL GENERATION	15810	4625	1743	22177	9743	4382	36303	36303	11023	
		SYNTHETICS	946	106	508	332			332			80026
TOTAL		22783	48662	22067	91512	9743	4382	105338	105338		80026	
1985	\$13	HOUSEHOLD & COMMERCIAL	114	6815	6841	13770			13770	13770	7673	20444
		INDUSTRIAL	6006	8233	12828	27068			27068	27068	4346	31414
		TRANSPORTATION	2	22338	752	23092			23092	23092	14	23106
		ELECTRICAL GENERATION	17878	1872	5232	22981	4929	4382	37292	37292	11430	
		SYNTHETICS	946	106	508	332			332			75363
TOTAL		24945	59152	23145	87242	4929	4382	101553	101553		75363	
1985	\$16	HOUSEHOLD & COMMERCIAL	114	6214	7006	13336			13336	13336	7146	20482
		INDUSTRIAL	6046	7854	13013	26913			26913	26913	4347	31360
		TRANSPORTATION	2	21192	776	22170			22170	22170	14	22184
		ELECTRICAL GENERATION	18310	1871	3257	23439	4953	4382	37774	37774	11558	
		SYNTHETICS	946	106	508	332			332			73976
TOTAL		25418	37225	23546	88189	4953	4382	100524	100524		73976	



1985 REGIONAL LIMITATION CASE  
With Conservation Demand

On the demand side, this scenario assumes the conservation case. On the supply side, the scenario assumes that energy development is restricted through a moratorium imposed on nuclear power plant construction, beyond projects currently granted construction permits, decelerated leasing of the OCS through 1980, restrictions on mining and burning of coal including heavier reclamation costs and severance taxes, and mandatory use of scrubbers on all new power plants in conjunction with low-sulfur coal.

Imported Oil Price \$8 \$13 \$16

Demand Region Prices

	\$8	\$13	\$16
Coal (\$/ton)	27.57	28.59	29.59
Gasoline (\$/bbl)	8.93	14.14	17.22
Distillate (\$/bbl)	9.77	14.33	16.98
Other Refined (\$/bbl)	10.94	16.16	19.28
Residual (\$/bbl)	10.06	14.33	16.75
Coal, Metallurgical (\$/ton)	27.65	27.65	27.65
Natural Gas (\$/Tcf)	1.71	1.97	1.95
Electricity (mills/kWh)	28.09	30.46	31.18

Oil, Gas, and Coal Supply Quantities

	\$8	\$13	\$16
Crude Production (MB/CD)	9300.7	11785.1	12287.7
Co-Products (MB/CD)	1704.9	1867.2	1896.1
Total Domestic Crude (MB/CD)	11005.6	13652.3	14183.7
Total Imported Crude (MB/CD)	11873.2	5589.8	2735.6
Natural Gas Production (Tcf/yr)	16.27	17.10	17.18
Associated Gas (Tcf/yr)	4.12	4.94	5.10
Total Domestic NG (Tcf/yr)	20.38	22.04	22.29
Total Imported NG (Tcf/yr)	1.28	1.28	1.28
Coal Production (MMT/yr)	837.49	924.62	1084.42

1985 REGIONAL LIMITATION CASE  
UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES  
IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS	
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10	10072.05	992.95	
		TRANSPORTATION	.08	3293.76	668.83		710.77
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76	5.07
		SYNTHETICS					
		TOTAL	558.97	6069.50	21511.86	112.76	1708.78
1985	\$8	HOUSEHOLD & COMMERCIAL	5.15	1590.33	5526.73		
		INDUSTRIAL	208.90	1405.02	13170.53		1748.01
		TRANSPORTATION	.11	3934.23	959.04		1049.97
		ELECTRICAL GENERATION	524.24	1405.83	1415.34	579.11	4.22
		SYNTHETICS	16.27		164.10		
		TOTAL	754.73	6007.41	20815.54	579.11	2812.20
1985	\$13	HOUSEHOLD & COMMERCIAL	5.15	1328.50	5381.41		
		INDUSTRIAL	212.65	1476.85	12757.84		1775.52
		TRANSPORTATION	.11	3658.03	607.55		1063.09
		ELECTRICAL GENERATION	612.56	882.76	3628.39	578.66	4.22
		SYNTHETICS	16.27		164.10		
		TOTAL	846.81	7386.54	22451.09	578.66	2842.83
1985	\$16	HOUSEHOLD & COMMERCIAL	5.19	1218.86	5084.38		
		INDUSTRIAL	213.94	1426.19	12907.86		1787.26
		TRANSPORTATION	.11	3508.25	823.75		1071.29
		ELECTRICAL GENERATION	771.19	310.62	3637.65	579.99	4.22
		SYNTHETICS	16.27		164.10		
		TOTAL	1006.70	6507.91	22689.52	579.99	2862.78

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS  
(IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO- LEUM	NATURAL GAS	TOTAL FOSSIL FUEL	NUCLEAR POWER	GEO- HYDRO- SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRICITY CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6061	7518	13888						
		INDUSTRIAL	4356	6153	10314	20823		37	20860	13088	3388	17276
		TRANSPORTATION	2	17720	485	18407					2425	23285
		ELECTRICAL GENERATION	8540	3480	3512	15532	1202	3253	19987	18407	17	18424
		SYNTHETICS										
		TOTAL	13207	33414	22028	68690	1202	3296	73142	73142		58985
1985	\$8	HOUSEHOLD & COMMERCIAL	114	4002	5706	14022						
		INDUSTRIAL	4027	8631	13548	26157			14022	14022	5964	20786
		TRANSPORTATION	2	21274	487	22163			20857	20857	3583	30439
		ELECTRICAL GENERATION	11554	6844	1461	21908	5791	3940	28163	22163	14	22177
		SYNTHETICS	261		169	42			31639	31639	9561	
		TOTAL	16558	47801	21482	65841	5791	3940	95572	45681		73602
1985	\$13	HOUSEHOLD & COMMERCIAL	114	7501	5554	13169						
		INDUSTRIAL	4710	7605	13207	25822			13169	13169	6058	19227
		TRANSPORTATION	2	15577	833	20812			25822	25822	3627	29449
		ELECTRICAL GENERATION	13313	5265	3744	22322	5787	3940	20812	20812	14	20827
		SYNTHETICS	261		169	92			32048	32048	9700	
		TOTAL	18400	40647	23170	82216	5787	3940	91943	41851		69503
1985	\$16	HOUSEHOLD & COMMERCIAL	114	6890	5680	12664						
		INDUSTRIAL	4702	7585	13321	25608			12664	12664	6098	18762
		TRANSPORTATION	2	19437	850	20289			25608	25608	3655	29263
		ELECTRICAL GENERATION	16695	1931	3754	22329	5800	3940	20289	20289	14	20304
		SYNTHETICS	261		169	92			32069	32069	9700	
		TOTAL	21724	35842	23416	80981	5800	3940	90721	40630		68328

### 1985 REGIONAL LIMITATION

On the demand side, this scenario assumes the BAU case. On the supply side, the scenario assumes that energy development is restricted through a moratorium imposed on nuclear power plant construction, beyond projects currently granted construction permits, decelerated leasing of the OCS through 1980, restrictions on mining and burning of coal including heavier reclamation costs and severance taxes, and mandatory use of scrubbers on all new power plants in conjunction with low-sulfur coal.

Imported Oil Price	Demand Region Prices		
	\$8	\$13	\$16
Coal (\$/ton)	27.94	28.62	29.66
Gasoline (\$/bbl)	10.38	14.34	17.62
Distillate (\$/bbl)	9.88	14.36	16.99
Other Refined (\$/bbl)	10.99	15.84	19.21
Residual (\$/bbl)	10.18	14.47	16.73
Coal, Metallurgical (\$/ton)	27.65	27.65	27.65
Natural Gas (\$/Tcf)	1.87	2.23	2.36
Electricity (mills/kWh)	28.58	31.12	32.04

### Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	9300.7	11785.0	12287.7
Co-Products (MB/CD)	1707.0	1888.6	1933.4
Total Domestic Crude (MB/CD)	11007.7	13673.6	14221.1
Total Imported Crude (MB/CD)	15262.1	7933.9	4112.9
Natural Gas Production (Tcf/yr)	16.30	17.40	17.76
Associated Gas (Tcf/yr)	4.12	4.94	5.10
Total Domestic NG (Tcf/yr)	20.42	22.35	22.86
Total Imported NG (Tcf/yr)	1.28	1.28	1.28
Coal Production (MMT/yr)	855.45	957.69	1157.96

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### 1985 REGIONAL LIMITATION W/BAU DEMAND CASE UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS	
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10	10072.05	992.95	
		TRANSPORTATION	.08	3293.70	668.83		710.77
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76	5.07
		SYNTHETICS					
TOTAL		558.97	6069.50	21511.86	112.76	1708.78	
1985	\$8	HOUSEHOLD & COMMERCIAL	5.16	1763.83	6252.46		1834.83
		INDUSTRIAL	212.33	1973.97	13738.52		1104.39
		TRANSPORTATION	.11	4511.32	804.14		4.22
		ELECTRICAL GENERATION	543.73	1569.50	196.62	590.61	
		SYNTHETICS	16.27		164.10		
TOTAL		777.60	9819.52	20927.67	590.61	2943.45	
1985	\$13	HOUSEHOLD & COMMERCIAL	5.16	1461.81	5990.50		1852.51
		INDUSTRIAL	218.36	1534.72	13237.27		1110.40
		TRANSPORTATION	.11	4152.44	743.55		4.22
		ELECTRICAL GENERATION	640.16	1123.18	2984.77	591.98	
		SYNTHETICS	16.27		164.10		
TOTAL		880.06	8271.14	22600.76	591.98	2967.14	
1985	\$16	HOUSEHOLD & COMMERCIAL	5.20	1341.56	5998.19		1866.41
		INDUSTRIAL	220.41	1481.76	13180.11		1117.53
		TRANSPORTATION	.11	3961.00	737.43		4.22
		ELECTRICAL GENERATION	838.89	317.63	3593.44	590.79	
		SYNTHETICS	16.27		164.10		
TOTAL		1080.89	7101.95	23345.07	590.79	2988.17	

### UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO-LEUM	NATURAL GAS	TOTAL FISSILE FUEL	NUCLEAR POWER	GED-HYDRO-SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6661	7518	13888			13888	13888	3388	17276
		INDUSTRIAL	4356	6153	10314	20823			20860	20860	2425	23285
		TRANSPORTATION	2	17720	685	18407		37	18407	18407	17	18424
		ELECTRICAL GENERATION	8540	3080	3512	15532	1202	3253	19987	19987	5830	
		SYNTHETICS										
TOTAL		13207	33414	22028	68650	1202	3290	73142	73142	5830	58985	
1985	\$8	HOUSEHOLD & COMMERCIAL	114	9990	9053	16356			16556	16556	6260	22817
		INDUSTRIAL	4497	9046	14178	27922			27922	27922	3768	31690
		TRANSPORTATION	2	24297	830	25129			25129	25129	14	25143
		ELECTRICAL GENERATION	11796	11335	203	23334	5946	3940	33220	33220	10023	
		SYNTHETICS	261		169	92			92			
TOTAL		16871	54667	21424	68333	5946	3940	102919	102827	7965	79650	
1985	\$13	HOUSEHOLD & COMMERCIAL	114	8286	6186	14586			14586	14586	6321	20907
		INDUSTRIAL	4826	8279	13661	26769			26769	26769	3789	30557
		TRANSPORTATION	2	22377	767	23147			23147	23147	14	23161
		ELECTRICAL GENERATION	13851	6711	3085	23648	5920	3940	33507	33507	10124	
		SYNTHETICS	261		169	92			92			
TOTAL		19057	45654	23550	68241	5920	3940	98101	98009	74626	74626	
1985	\$16	HOUSEHOLD & COMMERCIAL	114	7613	6190	13918			13918	13918	6368	20286
		INDUSTRIAL	4836	7952	13602	26390			26390	26390	3813	30203
		TRANSPORTATION	2	21356	761	22120			22120	22120	14	22134
		ELECTRICAL GENERATION	17477	1973	3708	23658	5908	3940	33506	33506	10196	
		SYNTHETICS	261		169	92			92			
TOTAL		23191	38694	24092	68177	5908	3940	96225	95934	72623	72623	

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1985 SUPPLY PESSIMISM CASE

This scenario is designed to show the adverse impact upon supply of the combined effect of price regulation, regional supply limitation, and geological pessimism with respect to oil and gas finding rates. The major supply assumptions are the conventions for the Regional Limitation Scenario, combined with oil and gas price regulation at approximately \$9/barrel and \$1.15/Mcf and with less favorable geological experience, less rapid leasing of OCS acreage, and diminished ability of the Alaskan North Slope to sustain high rates of oil production in the 1980's.

Imported Oil Price \$13 \$16

Demand Region Prices

Coal (\$/ton)	28.15	28.62
Gasoline (\$/bbl)	13.30	14.45
Distillate (\$/bbl)	13.03	14.34
Other Refined (\$/bbl)	14.18	15.96
Residual (\$/bbl)	13.22	14.46
Coal, Metallurgical (\$/ton)	27.65	27.65
Natural Gas (\$/Tcf)	1.84	2.04
Electricity (mills/kWh)	30.14	30.96

Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	8032.4	8032.4
Co-Products (MB/CD)	1565.4	1565.4
Total Domestic Crude (MB/CD)	9597.8	9597.8
Total Imported Crude (MB/CD)	12555.4	11570.8
Natural Gas Production (Tcf/yr)	14.24	14.24
Associated Gas (Tcf/yr)	3.68	3.68
Total Domestic NG (Tcf/yr)	17.92	17.92
Total Imported NG (Tcf/yr)	7.50	6.82
Coal Production (MMT/yr)	909.54	958.56

1985 SUPPLY PESSIMISM CASE  
UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES  
IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS	
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10	10072.05	992.95	
		TRANSPORTATION	.08	3293.70	608.83		710.77
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76	5.07
		SYNTHETICS					
		TOTAL	558.97	6069.50	21511.86	112.76	1708.78
1985	\$13	HOUSEHOLD & COMMERCIAL	5.16	1453.23	6295.52		1654.46
		INDUSTRIAL	216.57	1530.76	13615.59		1113.69
		TRANSPORTATION	.11	4156.23	785.98		4.22
		ELECTRICAL GENERATION	642.57	1016.72	3602.91	593.06	
		SYNTHETICS	16.27		164.10		
		TOTAL	880.68	8140.95	24135.89	593.06	2972.38
1985	\$16	HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		
		INDUSTRIAL	157.77	1158.10	10072.05		
		TRANSPORTATION	.08	3293.70	608.83		
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76	
		SYNTHETICS					
		TOTAL	558.97	6069.50	21511.86	112.76	

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO-LEUM	NATURAL GAS	TOTAL FISSILE FUEL	NUCLEAR POWER	GEO-HYDRO-SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6061	7518	13888			13888	13888	3388	17276
		INDUSTRIAL	4356	6153	10316	20823		37	20860	20860	2425	23285
		TRANSPORTATION	2	17720	685	18407			18407	18407	17	18424
		ELECTRICAL GENERATION	8540	3480	3512	15532	1202	3253	19987	19987	5830	
		SYNTHETICS										
		TOTAL	13207	33414	22028	68690	1202	3290	73142	73142		5865
1985	\$13	HOUSEHOLD & COMMERCIAL	114	8239	6497	14850			14850	14850	6327	21178
		INDUSTRIAL	4789	8230	14051	27071			27071	27071	3800	30871
		TRANSPORTATION	2	22302	811	23115			23115	23115	14	23130
		ELECTRICAL GENERATION	13898	6055	3718	23672	5931	3940	33542	33542	10142	
		SYNTHETICS	261		169	42			42	42		
		TOTAL	19065	48827	24908	68600	5931	3940	98670	98670		75178
1985	\$16	HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75							
		INDUSTRIAL	157.77	1158.10	10072.05							
		TRANSPORTATION	.08	3293.70	608.83							
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76						
		SYNTHETICS										
		TOTAL	558.97	6069.50	21511.86	112.76						



1980 REFERENCE CASE

This consists of BAU demand and supply cases, combined into a scenario to illustrate technical changes in PIES between 1974 and the present; this combination of supply and demand cases is the one most nearly comparable to the 1974 version of the BAU scenario.

Imported Oil Price \$8 \$13 \$16

Demand Region Prices

Coal (\$/ton)	26.03	26.09	26.09
Gasoline (\$/bbl)	11.07	15.56	17.79
Distillate (\$/bbl)	9.95	14.63	17.02
Other Refined (\$/bbl)	11.12	16.23	19.31
Residual (\$/bbl)	9.48	12.87	15.95
Coal, Metallurgical (\$/ton)	26.26	26.26	26.26
Natural Gas (\$/Tcf)	1.58	1.76	1.74
Electricity (mills/kWh)	27.10	28.24	28.92

Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	10084.8	10862.2	11152.0
Co-Products (MB/CD)	1853.7	1916.7	1928.9
Total Domestic Crude (MB/CD)	11938.5	12778.9	13080.9
Total Imported Crude (MB/CD)	7612.9	4404.6	3354.8
Natural Gas Production (Tcf/yr)	16.20	16.28	16.33
Associated Gas (Tcf/yr)	4.01	4.35	4.42
Total Domestic NG (Tcf/yr)	20.22	20.63	20.76
Total Imported NG (Tcf/yr)	1.41	1.41	1.41
Coal Production (MMT/yr)	786.83	798.88	798.77

1980 REFERENCE CASE  
UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES  
IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE	COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75	
		INDUSTRIAL	157.77	1158.10	10072.05	992.95
		TRANSPORTATION	.08	3293.70	668.83	710.77
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76
		SYNTHETICS				
		TOTAL.....	558.97	6069.50	21511.86	112.76
1980	\$8	HOUSEHOLD & COMMERCIAL	7.07	1337.18	6118.31	
		INDUSTRIAL	180.35	1349.08	12292.97	1376.23
		TRANSPORTATION	.14	3829.34	713.36	930.42
		ELECTRICAL GENERATION	518.93	776.16	2504.09	366.15
		SYNTHETICS				
		TOTAL.....	706.45	7291.76	21628.72	366.15
1980	\$13	HOUSEHOLD & COMMERCIAL	7.09	1122.54	5906.56	
		INDUSTRIAL	183.50	1257.92	11933.23	1450.45
		TRANSPORTATION	.14	3602.52	659.48	918.20
		ELECTRICAL GENERATION	527.81	889.21	3501.75	387.60
		SYNTHETICS				
		TOTAL.....	718.54	6472.18	22041.00	387.60
1980	\$16	HOUSEHOLD & COMMERCIAL	7.09	1035.61	5934.06	
		INDUSTRIAL	183.41	1211.81	11871.80	1365.47
		TRANSPORTATION	.14	3509.93	651.06	915.74
		ELECTRICAL GENERATION	527.79	453.28	3690.57	386.16
		SYNTHETICS				
		TOTAL.....	718.44	6210.63	22147.69	386.16

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES AND CONSUMING SECTORS (IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO- LEUM	NATURAL GAS	TOTAL FUSSIL FUEL	NUCLEAR POWER	GEO- HYDRO- SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR- SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	309	6061	7518	13888			13888	13888	3388	17276
		INDUSTRIAL	4356	6153	10314	20823		37	20860	20860	2425	23285
		TRANSPORTATION	2	17720	685	18407			18407	18407	17	18424
		ELECTRICAL GENERATION	8500	3480	3512	15532	1202	3263	19987	19987	5830	
		SYNTHETICS										
		TOTAL.....	13207	33014	22028	68650	1202	3290	73142	73142		58965
1980	\$8	HOUSEHOLD & COMMERCIAL	156	7602	6314	14272			14072	14072	4696	18768
		INDUSTRIAL	3565	7263	12686	23965			23965	23965	3175	27139
		TRANSPORTATION	3	20629	736	21368			21368	21368	15	21383
		ELECTRICAL GENERATION	11302	4743	2584	18630	3662	3704	25995	25995	7885	
		SYNTHETICS										
		TOTAL.....	15447	40267	22321	78035	3662	3704	85400	85400		67290
1980	\$13	HOUSEHOLD & COMMERCIAL	156	6403	6137	12696			12696	12696	4692	17388
		INDUSTRIAL	4044	6769	12315	23129			23129	23129	3133	26262
		TRANSPORTATION	3	19813	681	20096			20096	20096	15	20111
		ELECTRICAL GENERATION	11886	3017	3614	18117	3876	3704	25696	25696	7810	
		SYNTHETICS										
		TOTAL.....	15690	35801	22706	74037	3876	3704	81617	81617		63731
1980	\$16	HOUSEHOLD & COMMERCIAL	156	5917	6124	12197			12197	12197	4659	16856
		INDUSTRIAL	4042	6502	12252	22795			22795	22795	3125	25920
		TRANSPORTATION	3	18915	672	19590			19590	19590	15	19605
		ELECTRICAL GENERATION	11486	2790	3809	18084	3862	3704	25650	25650	7798	
		SYNTHETICS										
		TOTAL.....	15687	34125	22856	72668	3862	3704	80233	80233		62381

1990 REFERENCE CASE

This consists of BAU demand and supply cases, combined into a scenario to illustrate technical changes in PIES between 1974 and the present; this combination of supply and demand cases is the one most nearly comparable to the 1974 version of the BAU scenario.

Imported Oil Price	\$8	\$13	\$16
Demand Region Prices			
Coal (\$/ton)	27.93	29.04	29.03
Gasoline (\$/bbl)	8.95	14.37	17.26
Distillate (\$/bbl)	9.87	14.20	17.10
Other Refined (\$/bbl)	10.81	16.02	19.17
Residual (\$/bbl)	10.16	14.38	17.39
Coal, Metallurgical (\$/ton)	27.59	27.59	27.59
Natural Gas (\$/Tcf)	2.41	2.62	2.86
Electricity (mills/kWh)	28.86	30.68	31.58

Oil, Gas, and Coal Supply Quantities

Crude Production (MB/CD)	7389.8	12122.3	13492.6
Co-Products (MB/CD)	1434.5	1726.5	1781.2
Total Domestic Crude (MB/CD)	8824.3	13848.8	15273.8
Total Imported Crude (MB/CD)	20735.0	9694.1	5790.8
Natural Gas Production (Tcf/yr)	15.86	17.32	17.58
Associated Gas (Tcf/yr)	3.24	4.65	4.95
Total Domestic NG (Tcf/yr)	19.10	21.98	22.52
Total Imported NG (Tcf/yr)	3.02	0.29	0.29
Coal Production (MMT/yr)	1041.38	1306.55	1413.50

1990 REFERENCE CASE  
UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES  
IN STANDARD PHYSICAL UNITS BY MAJOR SOURCES AND CONSUMING SECTORS

YEAR	IMPORT PRICE		COAL MILLION SHORT TONS	PETROLEUM MILLION BARRELS	NATURAL GAS BILLIONS CUBIC FEET	NUCLEAR POWER BILLION KILOWATT HOURS	UTILITY ELECTRICITY CONSUMED BILLION KILOWATT HOURS
1974		HOUSEHOLD & COMMERCIAL	11.42	1057.80	7341.75		992.95
		INDUSTRIAL	157.77	1158.10	10072.05		710.77
		TRANSPORTATION	.08	3293.70	608.83		5.07
		ELECTRICAL GENERATION	389.70	559.90	3429.23	112.76	
		SYNTHETICS					
		TOTAL.....	558.97	6069.50	21511.80	112.76	1708.78
1990	\$8	HOUSEHOLD & COMMERCIAL	3.83	2173.73	6142.73		2363.39
		INDUSTRIAL	261.33	1492.10	15135.98		1383.46
		TRANSPORTATION	.09	5141.12	903.38		4.13
		ELECTRICAL GENERATION	676.25	1813.86	119.47	1266.11	
		SYNTHETICS	21.13		246.16		
		TOTAL.....	962.63	11120.81	22055.39	1266.11	3750.97
1990	\$13	HOUSEHOLD & COMMERCIAL	3.92	1795.44	6195.47		2441.74
		INDUSTRIAL	271.88	1804.13	15117.91		1413.50
		TRANSPORTATION	.10	4524.82	403.40		4.13
		ELECTRICAL GENERATION	932.02	427.89	154.00	1327.86	
		SYNTHETICS	21.13		246.16		
		TOTAL.....	1228.84	9054.28	22124.88	1327.86	3859.43
1990	\$16	HOUSEHOLD & COMMERCIAL	3.89	1844.59	5986.95		2508.00
		INDUSTRIAL	273.76	1735.08	14767.91		1446.32
		TRANSPORTATION	.10	4311.14	865.33		4.13
		ELECTRICAL GENERATION	1036.20	507.82	1508.37	1327.90	
		SYNTHETICS	21.13		246.16		
		TOTAL.....	1335.08	8198.63	22862.40	1327.90	3954.08

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR  
SOURCES AND CONSUMING SECTORS  
(IN TRILLIONS OF BTU'S)

YEAR	IMPORT PRICE	COAL	PETRO- LEUM	NATURAL GAS	TOTAL FUSSIL FUEL	NUCLEAR POWER	GE- HYDRO- SOLAR POWER	TOTAL GROSS ENERGY INPUTS	TOTAL FOUR SECTOR INPUTS	UTILITY ELECTRIC CONSUMED	TOTAL THREE SECTOR INPUTS	
1974		HOUSEHOLD & COMMERCIAL	509	6061	7518	13888		13888	13888	3388	17276	
		INDUSTRIAL	4356	6153	10314	20823		37	20860	20860	2425	23285
		TRANSPORTATION	2	17720	485	18407			18407	18407	17	18424
		ELECTRICAL GENERATION	8540	3480	3512	15532	1202	3253	19987	19987	5830	
		SYNTHETICS										
		TOTAL.....	13207	33414	22028	68650	1202	3290	73142	73142		56985
1990	\$8	HOUSEHOLD & COMMERCIAL	84	12764	6399	18638		18688	18688	8064	24751	
		INDUSTRIAL	5714	10792	13820	32126			32126	32126	4720	36846
		TRANSPORTATION	2	27676	932	28611			28611	28611	14	28625
		ELECTRICAL GENERATION	14299	10499	123	25321	12661	4166	42147	42147	12798	
		SYNTHETICS	391		254	137			137			
		TOTAL.....	20490	61691	22761	104882	12661	4166	121709	121572		92223
1990	\$13	HOUSEHOLD & COMMERCIAL	84	10119	6394	16597		16597	16597	8311	24928	
		INDUSTRIAL	5883	9753	15602	31158			31158	31158	4823	35981
		TRANSPORTATION	2	24379	932	25313			25313	25313	14	25327
		ELECTRICAL GENERATION	19569	5731	159	25460	13279	4166	42904	42904	13168	
		SYNTHETICS	391		254	137			137			
		TOTAL.....	25859	49982	22833	98665	13279	4166	110109	115972		86236
1990	\$16	HOUSEHOLD & COMMERCIAL	84	9262	6179	15524		15524	15524	8559	24083	
		INDUSTRIAL	5889	9329	15240	30458			30458	30458	4935	35393
		TRANSPORTATION	2	23259	893	24154			24154	24154	14	24168
		ELECTRICAL GENERATION	21557	3150	1557	26264	13279	4166	43709	43709	13508	
		SYNTHETICS	391		254	137			137			
		TOTAL.....	27923	45000	23615	96537	13279	4166	113982	113885		83644

## Appendix H

### CONTRIBUTORS TO REPORT

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