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INFORMAL REPORT

USER ACCESS TO THE MAP3S SOURCE EMISSIONS INVENTORY

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INTRODUCTION

An emissions inventory based on data obtained from NEDS⁽¹⁾, FPC⁽²⁾, Environment Canada and other agencies has been compiled by the MAP3S Central Data Coordination at Brookhaven National Laboratory. Pertinent data was brought together, collated, and loaded into computerized data bases using SYSTEM 2000⁽³⁾ as the data base management system. These data bases are available to interested users for interactive scanning or batch retrieval.

The emissions inventory consists of two distinct sections: a point source inventory and an area source inventory. The point source inventory covers the continental U.S. and Canada; information is kept at the individual source level. The area source inventory covers the continental U.S.; information is kept on a county basis. Work is in progress to obtain a Canadian area source inventory based on census divisions.

(1) NEDS = National Emissions Data System, U.S. Environmental Protection Agency.

(2) FPC = Federal Power Commission, currently merged into the Department of Energy.

(3) SYSTEM 2000 is a registered trademark of INTEL Commercial Systems Division, Austin, Texas.

I. Point Source Emissions Inventory

The point source emissions inventory consists of two logically distinct data base designs. Within each logical set physically distinct data bases are used to partition the data because of computer mass storage limitations.

The central portion of the inventory data is contained in the POINTXX79 data bases. These data bases are partitioned geographically; XX refers to the geographic section addressed by each data base. U.S. data in the POINTXX79 data bases was obtained mainly from NEDS and includes all sectors generating point source emissions--electric power generation, industrial, commercial, etc. Canadian data in the POINTCA79 data base was obtained from Environment Canada and also includes all sectors generating point source emissions. However, the current Canadian data set is more limited in scope than the data set obtained from NEDS - it only includes plant location, stack parameters and emissions data.

An auxiliary set of data is contained in the FPCYY data bases. These data bases are partitioned by year; YY refers to the year addressed by each data base. FPCYY data was compiled from the air quality control section of the FPC FORM 67: "Steam-Electric Plant Air and Water Quality Control Data." These data are only available for electric power generating plants in the U.S.

In order to facilitate the use of these emissions data bases, the corresponding FPC and NEDS plant codes for all U.S. power plants have been included in both sets of data bases. Also, a plant level summary of the FPC emissions and fuel data has been included in the U.S. POINTXX79 data bases.

A. POINTXX79 Data Bases

Figure 1 presents the logical data base definition for the POINTXX79 data bases. The plant information level (RG 30) contains general characteristics

of a plant or facility. The point source information level (RG 100) contains data specific to each point source within the plant or facility.

U.S. Data

Data for the POINTXX data bases covering the continental U.S. were derived mainly from NEDS. As outlined in the Federal Register, November 25, 1971, 51.1(K), NEDS defines a point source as:

- (a) any stationary source causing emissions in excess of 100 tons (90.7 metric tons) per year of any pollutant for which there is a national standard in a region containing an area whose 1970 "urban place" population, as defined by the U.S. Bureau of Census, was equal to or greater than 1 million, or
- (b) any stationary source causing emissions in excess of 25 tons (22.7 metric tons) per year of any pollutant for which there is a national standard in a region containing an area whose 1970 "urban place" population, as defined by the U.S. Bureau of Census, was less than 1 million; or (c) without regard to amount of emissions, stationary sources listed below.

Chemical Process Industries

Adipic acid	Paint and varnish manufacturing
Ammonia	Phosphoric acid
Ammonium nitrate	Phthalic anhydride
Carbon black	Plastics manufacturing
Charcoal	Printing ink manufacturing
Chlorine	Sodium carbonate
Detergent and soap	Sulfuric acid
Explosives (TNT and nitrocellulose)	Synthetic fibers
Hydrofluoric acid	Synthetic rubber
Nitric acid	Terephthalic acid

Food and Agricultural Industries

Alfalfa dehydrating
Ammonium nitrate
Coffee roasting
Cotton ginning
Feed and grain

Fermentation processes
Fertilizers
Fish meal processing
Meat smoke houses
Starch manufacturing

Metallurgical Industries

Primary metal industries

Aluminum ore reduction
Copper smelters
Ferroalloy production

Iron and steel mills
Lead smelters
Metallurgical coke manufacturing
Zinc

Secondary metals industries

Aluminum operations
Brass and bronze smelting
Ferroalloys
Gray iron foundries

Lead smelting
Magnesium smelting
Steel foundries
Zinc processes

Mineral Products Industries

Asphalt roofing
Asphaltic concrete batching
Bricks and related clay refractories
Calcium carbide
Castable refractories
Cement
Ceramic and clay processes
Clay and fly ash sintering
Coal cleaning
Concrete batching

Fiberglass manufacturing
Frit manufacturing
Glass manufacturing
Gypsum manufacturing
Lime manufacturing
Mineral wool manufacturing
Paperboard manufacturing
Perlite manufacturing
Phosphate rock preparation
Rock, gravel, and sand quarrying
and processing

All Petroleum Refining and Petrochemical Operations

All Wood Processing Operations

Petroleum Storage (storage tanks and bulk terminals)

Miscellaneous

Fossil fuel steam electric power plants
Municipal or equivalent incinerators
Open burning dumps

Hazardous Pollutant Sources

In keeping with the above definition every boiler is a separate and individual point source (RG 100). For example, if two or more boilers at a facility discharge gases into one stack, then two (or more) point sources (RG100) are included for the facility. However, there are instances when boilers may have been combined as a single point source:

- a. Where two or more similar small boilers (burning the same type fuel, having the same operating hours, and having similar capacities) are discharged through a common stack, they may have been combined as a single source if the total emission of any one pollutant is less than 100 tons per year.
- b. Where a number of very small similar boilers exist at a facility, each emitting five tons per year or less of any pollutant and each discharging through separate similar stacks, they may have been combined as a single source.

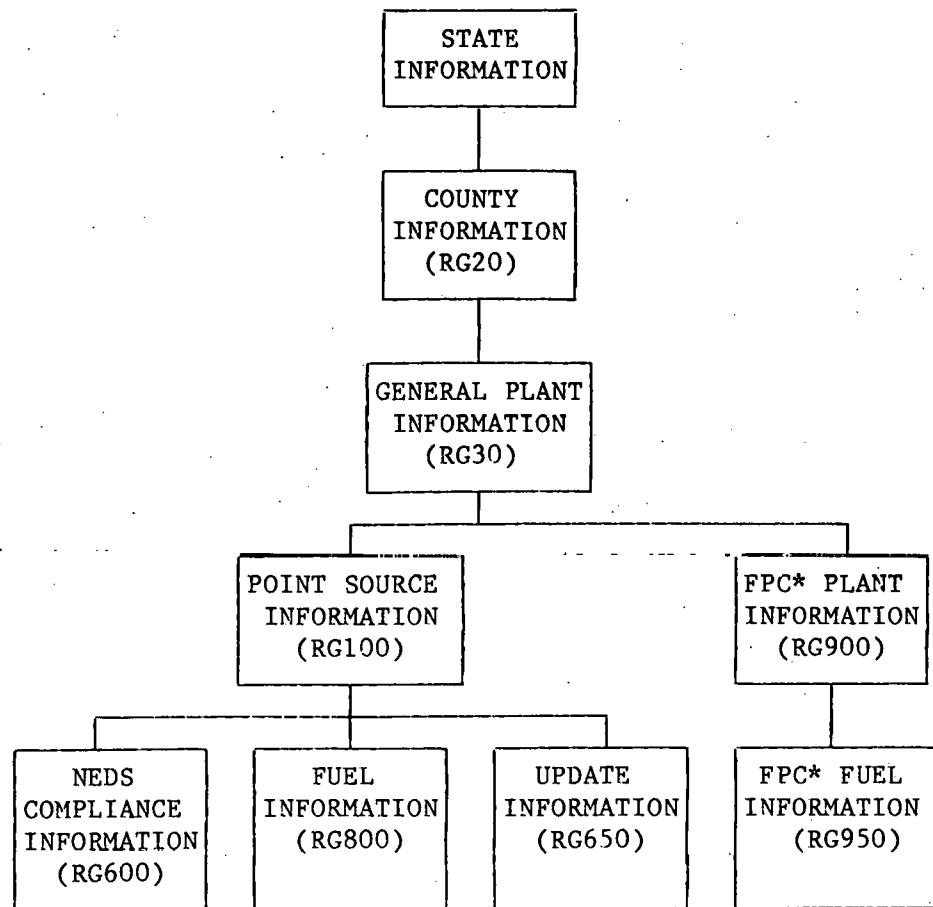
When boilers are combined as in (a) or (b), the boiler capacity is the sum of capacities of the combined boilers. The fuel use data are totals of each fuel used in the combined boilers. Boilers having emissions controls have not been combined with boilers not having controls.

When several similar boilers emit through several stacks with the number of stacks not equal to the number of boilers, the actual stack data is retained and the boilers are apportioned so total capacity and emissions are proportionally distributed among stacks.

Boiler, process and solid waste data for a facility are entered as different point sources. Combustion data other than boiler is combined with process data as the same point source only when the combustion is an integral part of the process and exhaust gases are commingled in the process.

Solvent, hydrocarbon, fuel, and other organic vapor losses from storage and handling operations in a facility are emissions and are appropriately reported as point sources.

Canadian Data Environment Canada has defined each stack within a plant to be a point source (RG100). All stacks within a plant have been given the same latitude and longitude.



* Applies to U.S. power plants only.

POINTXX79 Logical Data Base Design

Figure 1

POINTXX79

DATA BASE DEFINITION

SYSTEM RELEASE NUMBER 2.60F
DATA BASE NAME IS POINTXX79
DEFINITION NUMBER 1
DATA BASE CYCLE 18724

1* STATEDENS (INTEGER NUMBER 99)
40* STATEFIPS (NON-KEY INTEGER NUMBER 99)
41* STNAME (NON-KEY NAME X(6))
20* COUNTY (RG)
2* CTNEDS (INTEGER NUMBER 9999 IN 20)
22* CTFIPS (NON-KEY INTEGER NUMBER 999 IN 20)
21* CTNAME (NON-KEY NAME X(13) IN 20)
30* PLANT (RG IN 20)
3* AQCR (INTEGER NUMBER 999 IN 30)
4* NEDSID (NAME X(10) IN 30)
5* CITY (NON-KEY INTEGER NUMBER 9999 IN 30)
6* PLSICODE (INTEGER NUMBER 9999 IN 30)
7* NEDSYR (NON-KEY INTEGER NUMBER 99 IN 30)
8* NAME (NON-KEY NAME X(11) IN 30)
10* CONTACT (NON-KEY NAME X(10) IN 30)
11* OWNER (NON-KEY NAME X IN 30)
12* ACTION (NON-KEY NAME X IN 30)
13* CAPACITY (NON-KEY DECIMAL NUMBER 9999.99 IN 30)
14* MODDATE (DATE IN 30)
15* FPCCODE (NAME X(12) IN 30)
16* CAPYR (NON-KEY INTEGER NUMBER 99 IN 30)
100* POINT (RG IN 30)
101* POINTID (NAME XX IN 100)
102* SICCODE (INTEGER NUMBER 9999 IN 100)
103* IPPCODE (INTEGER NUMBER 99 IN 100)
104* PNTLON (NON-KEY DECIMAL NUMBER 9999.99 IN 100)
105* PNTLAT (NON-KEY DECIMAL NUMBER 999.99 IN 100)
108* COMSTACK (NON-KEY NAME X(5) IN 100)
109* COM1 (NON-KEY NAME X(5) IN 100)
110* NEDSYRPT (NON-KEY INTEGER NUMBER 99 IN 100)
111* EMISYRUP (NON-KEY INTEGER NUMBER 99 IN 100)
112* PRODYRUP (NON-KEY INTEGER NUMBER 99 IN 100)
201* STACKHEIGHT (NON-KEY DECIMAL NUMBER 9999.999 IN 100)
202* STACKDIAM (NON-KEY DECIMAL NUMBER 99.999 IN 100)
203* STACKTEMP (NON-KEY DECIMAL NUMBER 9999.999 IN 100)
204* STACKFLOW (NON-KEY DECIMAL NUMBER 9(6).999 IN 100)
205* STACKVELO (NON-KEY DECIMAL NUMBER 9(6).999 IN 100)
206* STACKNORMRISE (NON-KEY DECIMAL NUMBER 9(6).999 IN 100)
301* PLHGT (NON-KEY DECIMAL NUMBER 9999.999 IN 100)
401* PARTEMSSLOG (INTEGER NUMBER 99 IN 100)
402* PARTPRIMCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
403* PARTSECONCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
404* PARTEFFIC (NON-KEY DECIMAL NUMBER 99.9 IN 100)
405* PARTEMISS (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
407* PARTEMISOK (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
411* SO2EMSSLOG (INTEGER NUMBER 99 IN 100)
412* SO2PRIMCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
413* SO2SECONCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
414* SO2EFFIC (NON-KEY DECIMAL NUMBER 99.9 IN 100)
415* SO2EMISS (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
417* SO2EMISOK (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
421* NOXEMSSLOG (INTEGER NUMBER 99 IN 100)
422* NOXPRIMCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
423* NOXSECONCONTR (NON-KEY INTEGER NUMBER 999 IN 100)

424* NOXEFFIC (NON-KEY DECIMAL NUMBER 99.9 IN 100)
 425* NOXEMISS (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
 427* NOXEMISOK (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
 431* HCEMSSLOG (INTEGER NUMBER 99 IN 100)
 432* HCPRIMCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
 433* HCSECONCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
 434* HCEFFIC (NON-KEY DECIMAL NUMBER 99.9 IN 100)
 435* HCEMISS (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
 437* HCEMISOK (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
 441* COEMSSLOG (INTEGER NUMBER 99 IN 100)
 442* COPRIMCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
 443* COSECONCONTR (NON-KEY INTEGER NUMBER 999 IN 100)
 444* COEFFIC (NON-KEY DECIMAL NUMBER 99.9 IN 100)
 445* COEMISS (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
 447* COEMISOK (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
 501* DEC FEB (NON-KEY INTEGER NUMBER 99 IN 100)
 502* MARMAY (NON-KEY INTEGER NUMBER 99 IN 100)
 503* JUNE AUG (NON-KEY INTEGER NUMBER 99 IN 100)
 504* SEPT NOV (NON-KEY INTEGER NUMBER 99 IN 100)
 505* HOUR (NON-KEY INTEGER NUMBER 99 IN 100)
 506* DAY (NON-KEY INTEGER NUMBER 99 IN 100)
 507* WEEK (NON-KEY INTEGER NUMBER 99 IN 100)
 701* BOILER (NON-KEY DECIMAL NUMBER 9(10).999 IN 100)
 702* SPACE (NON-KEY DECIMAL NUMBER 99.9 IN 100)
 600* COMPLY (RG IN 100)
 606* STATUS (NON-KEY INTEGER NUMBER 99 IN 600)
 607* COMPYR (NON-KEY INTEGER NUMBER 99 IN 600)
 608* COMPMO (NON-KEY INTEGER NUMBER 99 IN 600)
 609* UPYR (NON-KEY INTEGER NUMBER 99 IN 600)
 610* UPMO (NON-KEY INTEGER NUMBER 99 IN 600)
 611* UPDY (NON-KEY INTEGER NUMBER 99 IN 600)
 612* YRREG (NON-KEY INTEGER NUMBER 99 IN 600)
 613* CNTRLREG (NON-KEY NAME X(5) IN 600)
 614* EMERSTCD (NON-KEY NAME X IN 600)
 650* UPDATE RG (RG IN 100)
 651* UPDATE (DATE IN 650)
 653* COMPONENTS (NAME X(5) IN 650)
 652* DESCRIPT (NON-KEY NAME X(19) IN 650)
 656* UPFLAG (NON-KEY NAME X IN 650)
 800* CARD6 (RG IN 100)
 806* FUEL (NON-KEY NAME X(5) IN 800)
 801* SCC (INTEGER NUMBER 9(8) IN 800)
 804* SULPHUR (NON-KEY DECIMAL NUMBER 9.99 IN 800)
 805* ASH (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 807* HEAT (NON-KEY DECIMAL NUMBER 9(10).999 IN 800)
 808* SOURCE (NON-KEY NAME X IN 800)
 809* CONF (NON-KEY NAME X IN 800)
 810* COMMENT (NON-KEY NAME X(6) IN 800)
 900* FPCDATA (RG IN 30)
 901* FPCDATA YR (NON-KEY INTEGER NUMBER 99 IN 900)
 902* FPCCAP (NON-KEY DECIMAL NUMBER 9(5).99 IN 900)
 903* FPCEMISS02 (NON-KEY DECIMAL NUMBER 9(10).999 IN 900)
 904* FPCEMISPART (NON-KEY DECIMAL NUMBER 9(10).999 IN 900)
 905* FPCEMISNOX (NON-KEY DECIMAL NUMBER 9(10).999 IN 900)
 906* FPCNOSTCK (NON-KEY INTEGER NUMBER 99 IN 900)
 907* FPCLWSTCK (NON-KEY DECIMAL NUMBER 9999.999 IN 900)
 908* FPCHGSTCK (NON-KEY DECIMAL NUMBER 9999.999 IN 900)
 950* FPCFUEL (RG IN 900)
 951* FPCFUEL NAME (NON-KEY NAME X(5) IN 950)
 952* FPCFUEL CONS (NON-KEY DECIMAL NUMBER 9(10).999 IN 950)
 953* FPCFUEL HEAT (NON-KEY DECIMAL NUMBER 9(10).999 IN 950)
 954* FPCFUELS (NON-KEY DECIMAL NUMBER 99.9 IN 950)
 955* FPCFUELASH (NON-KEY DECIMAL NUMBER 99.9 IN 950)

956* FPCFUELH20 (NON-KEY DECIMAL NUMBER 99.9 IN 950)
17* PLLON (DECIMAL FUNCTION ((AVG C104 BY C30)))
18* PLLAT (DECIMAL FUNCTION ((AVG C105 BY C30)))
50* PLPARTEMISS (DECIMAL FUNCTION ((SUM C405 BY C30)))
51* PLSO2EMISS (DECIMAL FUNCTION ((SUM C415 BY C30)))
52* PLNOXEMISS (DECIMAL FUNCTION ((SUM C425 BY C30)))
53* PLHCEMISS (DECIMAL FUNCTION ((SUM C435 BY C30)))
54* PLCOEMISS (DECIMAL FUNCTION ((SUM C445 BY C30)))
55* PLTPARTEMSSLOG (DECIMAL FUNCTION ((MAX C401 BY C30)))
56* PLTSO2EMSSLOG (DECIMAL FUNCTION ((MAX C411 BY C30)))
57* PLTNOXEMSSLOG (DECIMAL FUNCTION ((MAX C421 BY C30)))
58* PLTHCEMSSLOG (DECIMAL FUNCTION ((MAX C431 BY C30)))
59* PLTCOEMSSLOG (DECIMAL FUNCTION ((MAX C441 BY C30)))

LIST OF DATA BASE COMPONENT NUMBERS
(IN ASCENDING ORDER)

COMPONENT NUMBER, COMPONENT NAME, KEY OR NOT, COMPONENT DESCRIPTION

(FOR A DETAILED DESCRIPTION OF THE NEDS DATA PLEASE REFER TO
"A GUIDE FOR COMPILING A COMPREHENSIVE EMISSION INVENTORY,"
EPA PUBLICATION NO. APTD-1135)

C1	STATENEDS	KEY
	SAROAD state code for state where plant is located (see Table 1) or Environment Canada code for Canadian province (see Table 1A).	
C2	CTNEDS	KEY
	SAROAD county code for U.S. county where plant is located. (Reference: SAROAD Station Coding Manual for Aerometric Sampling Networks, publication No. APTD-0907, EPA). Environment Canada code for census division.(1)	
C3	AQCR	KEY
	Air quality control region where plant is located. (Reference: Federal Air Quality Control Regions, publication number AP-102, EPA(2)).	
C4	NEDSID	KEY
	Ten character unique identifier for plant.	
C5	CITY	NON-KEY
	If plant is located within any of the cities listed in the SAROAD Station Coding Manual for Aerometric Sampling Networks, the code is indicated here.	
C6	PLSICODE	KEY
	Standard Industrial Classification Code assigned to the facility. This corresponds to the SIC code assigned to the majority of the sources within a plant. (Reference: Standard Industrial Classification Manual, Office of Management and Budget, Stock No. 4101-0066).	
C7	NEDSYR	NON-KEY
	Year when plant information was last updated by agency compiling the original data.	
C8	NAME	NON-KEY
	Name and address of facility.	
C10	CONTACT	NON-KEY
	Name of person responsible for pollution control at the facility.	
C11	OWNER	NON-KEY
	Ownership of facility as follows- P=Private, L=Local Government, S=State Government, F=Federal Government, U=Utilities.	

(1)Currently not implemented in POINTCA79.

(2)EPA=Environmental Protection Agency.

C12	ACTION	NON-KEY
	Dummy component.	
C13	CAPACITY	NON-KEY
	If U.S. power plant, plant capacity in megawatts from plant FPC FORM 67.	
C14	MODDATE	KEY
	Date of last BNL update to any data pertaining to the facility.	
C15	FPCCODE	KEY
	Federal Power Commission plant code (applies to U.S. power plants only).	
C16	CAPYR	NON-KEY
	Year corresponding to plant capacity figure (applies to U.S. power plants only).	
C20	COUNTY	NON-KEY
	RG with county or census division information.	
C21	COUNTY NAME	NON-KEY
	Name of county (U.S.) or census division (Canada). (1)	
C22	CTFIPS	NON-KEY
	FIPS code for U.S. county (Reference: Counties and County Equivalents of the States of the United States, NTIS publication number NBS-FIPS-PUB-6-2).	
C30	PLANT	NON-KEY
	RG with individual facility information.	
C40	STATEFIPS	NON-KEY
	FIPS code for U.S. state (see Table 1) or DIA ⁽²⁾ code for Canadian province (see Table 1A). (Reference: Geopolitical Data Elements and Related Features, pub. No. DIAM-65-18).	
C41	STNAME	NON-KEY
	Name of U.S. state or Canadian province.	
C100	POINT	NON-KEY
	RG with information about each individual point source within a facility.	
C101	POINTID	KEY
	Unique identifier for a point source within a facility.	
C102	SICCODE	KEY
	Standard Industrial Classification code for point. (Reference: Standard Industrial Classification Manual, Office of Management and Budget, stock no. 4101-0066).	

(1) Currently not implemented in POINTCA79.

(2) DIA=Defense Intelligence Agency.

C103 IPPCODE KEY
IPP process code for point, if any. (Reference: Aeros Manual Series Volume V: Aeros Manual of Codes, EPA-450/2-76-005; OAQ PS No. 1.2-042, section 3, chapter 2).

C104 PLLON NON-KEY
Longitude of point (decimal equivalent of degrees, minutes).

C105 PLLAT NON-KEY
Latitude of point (decimal equivalent of degrees, minutes).

C108 COMSTACK NON-KEY
When multiple point sources are discharged through a single stack all such point sources are numbered sequentially. This component contains the numbers of the first and last point source discharging into the common stack. For example, if a facility has 5 point sources and point sources 3, 4, and 5 discharge into a single stack, then C108 for points 3, 4, and 5 would have identical entries of the form 03-05.

C109 COM1 NON-KEY
Comment field.

C110 NEDSYRPT NON-KEY
Date point information was last updated by NEDS.

C111 EMISYRUP NON-KEY
Date emissions information was last updated by NEDS.

C112 PRODYRUP NON-KEY
Date production information was last updated by NEDS.

C201 STACKHEIGHT NON-KEY
Vertical distance between point of emission and ground level (meters).

C202 STACKDIAM NON-KEY
Inside diameter of a round gas exit at point of emission; for non-round exits it is an equivalent diameter calculated from the cross-sectional area at point of discharge (meters).

C203 STACKTEMP NON-KEY
Temperature of exhaust stream at stack exit under normal operating conditions (°K).

C204 STACKFLOW NON-KEY
Volume of exhaust gas released at the operating temperature of stack. (m³/min) Gas pressure assumed the same as normal atmospheric pressure.

C205 STACKVELO NON-KEY
Average stack velocity of exhaust gas stream (m/sec).

C206 STACKNORMRISE NON-KEY
Dummy component.

C301	PLHGT	NON-KEY
The plume height is a gross estimate and is used only when the source has one of the following characteristics: (a) no clear-cut enclosed point of emission (e.g., gas leaks at an oil refinery), (b) no stack height (e.g., burning dumps), (c) a mobile emission point within the facility (e.g., quarry), (d) pollutants released into the atmosphere at ambient temperatures through diffusion (e.g., gasoline storage tanks); (meters above ground level).		
C401	PARTEMSSLOG	KEY
Truncated base 10 log of particulate emissions for point source (for key search purposes).		
C402	PARTPRIMCONTROL	NON-KEY
Primary control device equipment code for particulate emissions (see Table 2).		
C403	PARTSECONCONTROL	NON-KEY
Secondary control device equipment code for particulate emissions (see Table 2).		
C404	PARTEFFIC	NON-KEY
Estimated control efficiency for all particulate control equipment (weight %).		
C405	PARTEMISS	NON-KEY
Annual controlled particulate emissions from point source (tonnes/year ⁽¹⁾).		
C407	PARTEMISOK	NON-KEY
Maximum legal particulate emissions from point source (tonnes/year).		
C411	SO2EMSSLOG	KEY
Truncated base 10 log of SO ₂ emissions for point source (for key search purposes).		
C412	SO2PRIMCONTR	NON-KEY
Primary control device equipment code for SO _x emissions (see Table 2).		
C413	SO2SECONCONTR	NON-KEY
Secondary control device equipment code for SO _x emissions (see Table 2).		
C414	SO2EFFIC	NON-KEY
Estimated control efficiency for all SO _x equipment (weight %).		
C415	SO2EMISS	NON-KEY
Annual controlled SO _x emissions from point source (tonnes of SO ₂ /year).		
C417	SO2EMISOK	NON-KEY
Maximum legal SO _x emissions from point source (tonnes of SO ₂ /year).		
C421	NOXEMSSLOG	KEY
Truncated base 10 log of NO _x emissions for point source (for key search purposes).		

(1) tonnes = metric tons (10³ kgs)

C422	NOXPRIMCONTR	NON-KEY
	Primary control device equipment code for NO _x emissions (see Table 2).	
C423	NOXSECONCONTR	NON-KEY
	Secondary control device equipment code for NO _x emissions (see Table 2).	
C424	NOXEFFIC	NON-KEY
	Estimated control efficiency for all NO _x control equipment (weight %).	
C425	NOXEMISS	NON-KEY
	Annual controlled NO _x emissions from point source (tonnes of NO ₂ /year).	
C427	NOXEMISOK	NON-KEY
	Maximum legal NO _x emissions from point source (tonnes of NO ₂ /year).	
C431	HCEMSSLOG	KEY
	Truncated base 10 log of HC emissions for point source (for key search purposes).	
C432	HCPRIMCONTR	NON-KEY
	Primary control device equipment code for HC emissions (see Table 2).	
C433	HCSECONCONTR	NON-KEY
	Secondary control device equipment code for HC emissions (see Table 2).	
C434	HCEFFIC	NON-KEY
	Estimated control efficiency for all HC control equipment (weight %).	
C435	HCEMISS	NON-KEY
	Annual controlled HC emissions from point source (tonnes of CH ₄ /year).	
C437	HCEMISOK	NON-KEY
	Maximum legal HC emissions from point source (tonnes of CH ₄ /year).	
C441	COEMSSLOG	KEY
	Truncated base 10 log of CO emissions for point source (for key search purposes).	
C442	COPRIMCONTR	NON-KEY
	Primary control device equipment code for CO emissions (see Table 2).	
C443	COSECONCONTR	NON-KEY
	Secondary control device equipment code for CO emissions (see Table 2).	
C444	COEFFIC	NON-KEY
	Estimated control efficiency for all CO control equipment (weight %).	
C445	COEMISS	NON-KEY
	Annual controlled CO emissions from point source (tonnes/year).	

C447 COEMISOK NON-KEY
Maximum legal CO emissions from point source (tonnes/year).

C501 DECFEB NON-KEY
Weighted portion of production of source occurring from December to February (%).

C502 MARMAY NON-KEY
Weighted portion of production of source occurring from March to May (%).

C503 JUNEAUG NON-KEY
Weighted portion of production of source occurring from June to August (%).

C504 SEPTNOV NON-KEY
Weighted portion of production of source occurring from September to November (%).

C505 HOUR NON-KEY
Hours/day source operates under normal conditions.

C506 DAY NON-KEY
Days/week source operates under normal conditions.

C507 WEEK NON-KEY
Weeks/year source operates under normal conditions.

C600 COMPLY NON-KEY
RG with compliance analysis information.

C606 STATUS NON-KEY
Code for present status of the source under existing legislation as follows- 1=in compliance, 2=not in compliance and no variance, 3=not in compliance but variance obtained, 4=compliance status unknown.

C607 COMPYR NON-KEY
Year source must be in compliance.

C608 COMPMO NON-KEY
Month source must be in compliance.

C609 UPYR NON-KEY
Year of most recent change in compliance status of source.

C610 UPMO NON-KEY
Month of most recent change in compliance status of source.

C611 UPDY NON-KEY
Day of most recent change in compliance status of source.

C612 YRREG NON-KEY
Date regulatory info last updated.

C613 CNTRLREG NON-KEY
Control regulations applying to this source.

C614 EMERSTCD NON-KEY
Emergency control action plan (ECAP) status as follows = 0 = ECAP not required; 1 = required ECAP not submitted; 2 = ECAP submitted.

C701 BOILER NON-KEY
Boiler input design capacity before heat transfer (kilocalories/minute).

C702 SPACE NON-KEY
% of total fuel used for space heating.

C800 CARD6 NON-KEY
RG with operating characteristics of each fuel or process contributing to the point source.

C801 SCC KEY
NEDS Source Classification Code for fuel or process. (References: Compilation of Air Pollutant Emission Factors, EPA publication AP-42. Aeros Manual Series Volume V: Aeros Manual of Codes, EPA-450/2-76-005; OAQPS No. 1.2-042, section 3, chapter 7).

C804 SULPHUR NON-KEY
Sulfur content of fuel being used (%).

C805 ASH NON-KEY
Ash content of fuel being used (%).

C806 FUEL NON-KEY
Name of fuel used.

C807 HEAT NON-KEY
Heat content of fuel being used (kilocalories/fuel unit).

C808 SOURCE NON-KEY
Process category as follows- B=boiler, P=process, C=other combustion, S=solid waste.

C809 CONF NON-KEY
Confidentiality of data as follows- 1=some data should be considered confidential, 2=no data need be considered confidential.

C810 COMMENT NON-KEY
Comments on corresponding SCC (C801).

C900 FPCDATA NON-KEY
Rg with data from FPC FORM 67. Data in this RG applies to power plants only.

C901 FPCDATAYR NON-KEY
Year when FPC data was compiled.

C902 FPCCAP NON-KEY
Capacity of power plant (megawatts) from FPC FORM 67.

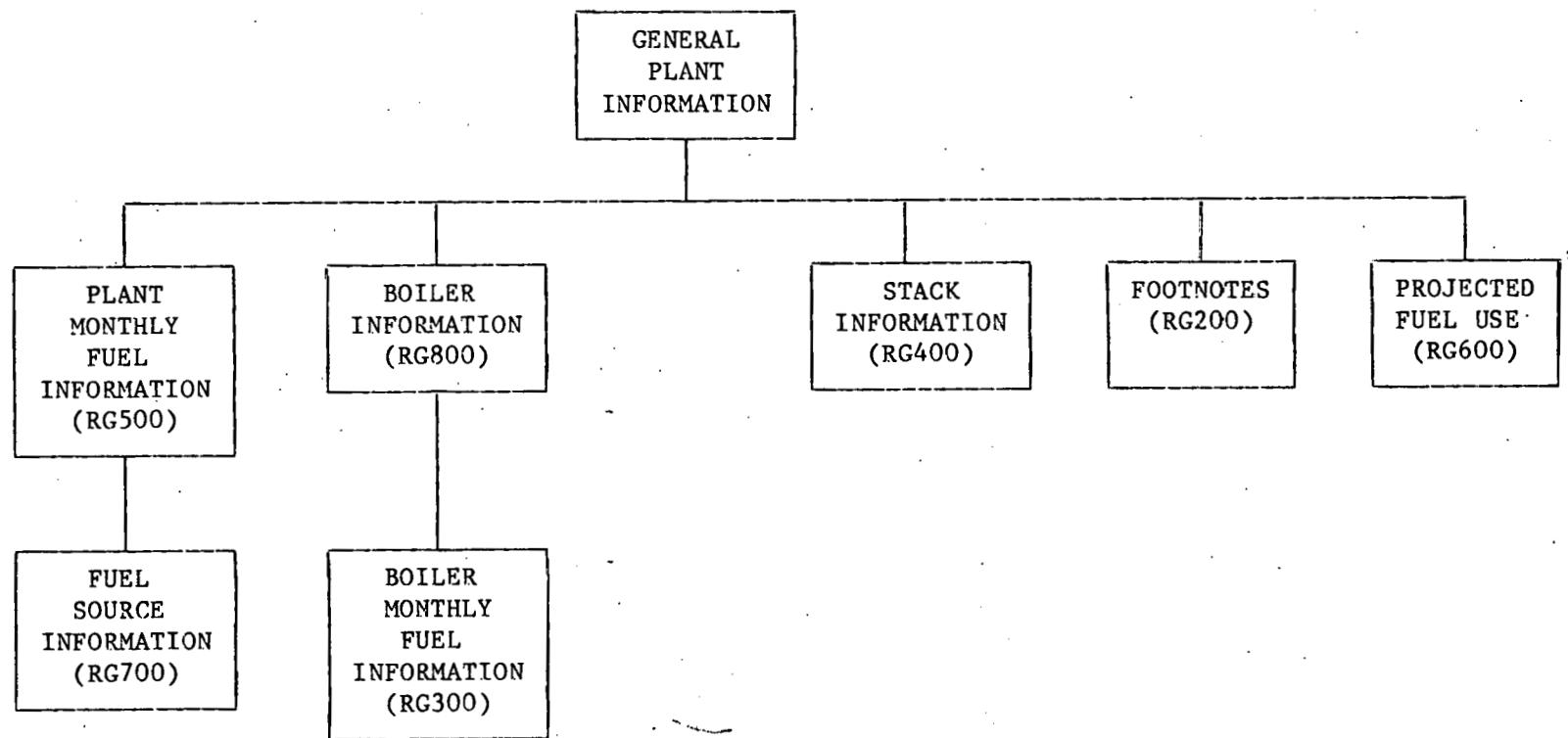
C903 FPCEMISS02 NON-KEY
Annual controlled SO_x emissions for plant (tonnes of SO₂/year) from FPC FORM 67.

C904	FPCEMISPART	NON-KEY
	Annual controlled particulate emissions for plant (tonnes/year) from FPC FORM 67.	
C905	FPCEMISNOX	NON-KEY
	Annual controlled NO _x emissions for plant (tonnes of NO ₂ /year) from FPC FORM 67.	
C906	FPCNOSTCK	NON-KEY
	Number of stacks in plant.	
C907	FPCLWSTCK	NON-KEY
	Lowest stack height (meters).	
C908	FPCHGST CK	NON-KEY
	Highest stack height (meters).	
C950	FPCFUEL	NON-KEY
	RG with fuel data from FPC FORM 67.	
C951	FPCFUEL NAME	NON-KEY
	Name of fuel (coal, oil or gas).	
C952	FPCFUEL CONS	NON-KEY
	Fuel consumption of plant (tonnes/year for coal; thousands of M ³ for gas and oil).	
C953	FPCFUEL HEAT	NON-KEY
	Average heat content of the fuel (kilo calories/fuel unit).	
C954	FPCFUELS	NON-KEY
	Average sulfur content of the fuel (%).	
C955	FPCFUELASH	NON-KEY
	Average ash content of the fuel (%).	
C956	FPCFUELH2O	NON-KEY
	Average moisture content of the fuel (%).	

B. FPCYY Data Bases

These data bases include the air quality control section data of the FPC FORM 67 data. These data must be submitted yearly to the Energy Information Administration section of the Department of Energy by an electric utility with a steam-electric generating capacity of 25 megawatts or greater during the year covered.

Figure 2 presents the logical data base definition for the FPCYY data bases. Because additional data was compiled starting in 1974 the projected fuel use repeating group (RG600) was added to the definition for FPC74, FPC75 and FPC76.



FPCYY - Logical Data Base Design

Figure 2

*Only available starting in 1974.

FPCYY

DATA BASE DEFINITION
(FOR DATA BASES FPC69, FPC70, FPC71, FPC72 AND FPC73)

SYSTEM RELEASE NUMBER 2.60D

DATA BASE NAME IS FPCYY

DEFINITION NUMBER 1

DATA BASE CYCLE 1

1? COMPANY NAME (NON-KEY NAME X(15))
2? PLANT NAME (NON-KEY NAME X(15))
3? FPC CO-PLANT CODE (NAME X(11))
4? NEDS CODE (NAME X(10))
5? PLANT CAPACITY (NON-KEY DECIMAL NUMBER 9(5).99)
12? ROUNDED PLANT CAPACITY (INTEGER NUMBER 9(5))
6? FIPS STATE CODE (NAME XX)
19? STATE NAME (NON-KEY NAME X(10))
7? FIPS COUNTY CODE (NAME XXX)
14? GEOGRAPHIC REGION (NON-KEY NAME XX)
8? POST OFFICE ZIP (NON-KEY NAME X(10))
9? AQCR CODE (NON-KEY NAME XXX)
10? WATER RESOURCES REGION CODE (NON-KEY NAME XX)
11? FPC REGIONAL OFFICE CODE (NON-KEY NAME X)
13? FILING DATE (NON-KEY DATE)
15? FUEL QUALITY REPORTED (NON-KEY NAME X)
16? NET ANNUAL GENERATION (NON-KEY DECIMAL NUMBER 9(8).99)
101? HEAT RATE (NON-KEY DECIMAL NUMBER 9(6).99)
40? TOTAL LIMESTONE USED (NON-KEY DECIMAL NUMBER 9(5).99)
41? TOTAL DOLOMITE USED (NON-KEY DECIMAL NUMBER 9(5).99)
42? OTHER ADDITIVES USED (NON-KEY DECIMAL NUMBER 9(5).99)
44? TOTAL FLYASH COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
45? TOTAL FLYASH SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
46? TOTAL FLYASH PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
47? TOTAL FLYASH LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
48? TOTAL FLYASH WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
49? TOTAL FLYASH OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
50? LONGITUDE (NON-KEY DECIMAL NUMBER 999.99)
51? LATITUDE (NON-KEY DECIMAL NUMBER 999.99)
54? TOTAL BOTTOM ASH COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
55? TOTAL BOTTOM ASH SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
56? TOTAL BOTTOM ASH PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
57? TOTAL BOTTOM ASH LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
58? TOTAL BOTTOM ASH WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
59? TOTAL BOTTOM ASH OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
84? TOTAL ELEMENTAL S COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
85? TOTAL ELEMENTAL S SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
86? TOTAL ELEMENTAL S PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
87? TOTAL ELEMENTAL S LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
88? TOTAL ELEMENTAL S WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
89? TOTAL ELEMENTAL S OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
94? TOTAL SO4H2 COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
95? TOTAL SO4H2 SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
96? TOTAL SO4H2 PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
97? TOTAL SO4H2 LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
98? TOTAL SO4H2 WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
99? TOTAL SO4H2 OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
100? PURITY OF SO4H2 (NON-KEY DECIMAL NUMBER 99.9)
104? TOTAL SO2 COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)

105? TOTAL SO2 SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
106? TOTAL SO2 PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
107? TOTAL SO2 LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
108? TOTAL SO2 WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
109? TOTAL SO2 OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
114? TOTAL OTHER S COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
115? TOTAL OTHER S SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
116? TOTAL OTHER S PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
117? TOTAL OTHER S LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
118? TOTAL OTHER S WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
119? TOTAL OTHER S OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
124? TOTAL OTHER PRODUCTS COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
125? TOTAL OTHER PRODUCTS SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
126? TOTAL OTHER PRODUCTS PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
127? TOTAL OTHER PRODUCTS LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
128? TOTAL OTHER PRODUCTS WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
129? TOTAL OTHER PRODUCTS OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
60? FLYASH EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
61? BOTTOM ASH EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
62? SULFUR EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
63? OTHER PRODUCTS EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
68? OTHER AIR QUALITY EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
70? SALES OF FLYASH (NON-KEY DECIMAL NUMBER 9(5).99)
72? SALES OF BOTTOM ASH (NON-KEY DECIMAL NUMBER 9(5).99)
73? SALES OF FLY+BOTTOM (NON-KEY DECIMAL NUMBER 9(5).99)
75? SALES OF SULFUR (NON-KEY DECIMAL NUMBER 9(5).99)
77? OTHER REVENUES (NON-KEY DECIMAL NUMBER 9(5).99)
500? FUEL INFORMATION (RG)
501? FUEL NAME (NAME X(5) IN 500)
502? JANTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
592? JANBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
503? JANAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
504? JANAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
505? JANAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
506? FEBTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
507? FEBBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
508? FEBAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
509? FEBAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
510? FEBAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
511? MARTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
512? MARBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
513? MARAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
514? MARAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
515? MARAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
516? APRTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
517? APRBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
518? APRAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
519? APRAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
520? APRAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
521? MAYTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
522? MAYBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
523? MAYAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
524? MAYAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
525? MAYAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
526? JUNTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
527? JUNBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
528? JUNAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
529? JUNAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
530? JUNAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
531? JULTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)

532? JULBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
533? JULAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
534? JULAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
535? JULAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
536? AUGTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
537? AUGBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
538? AUGAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
539? AUGAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
540? AUGAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
541? SEPTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
542? SEPBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
543? SEPAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
544? SEPAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
545? SEPAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
546? OCTTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
547? OCTBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
548? OCTAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
549? OCTAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
550? OCTAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
551? NOVTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
552? NOVBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
553? NOVAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
554? NOVAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
555? NOVAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
556? DECTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
557? DECBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
558? DECAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
559? DECAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
560? DECAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
580? YEARTOTUSED (NON-KEY DECIMAL NUMBER 9(7).99 IN 500)
581? YEARBTULB (NON-KEY DECIMAL NUMBER 9(7).99 IN 500)
582? YEARAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
583? YEARAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
584? YEARAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
700? FUEL SOURCE (RG IN 500)
 701? SOURCENAME (NON-KEY NAME X(10) IN 700)
 702? SOURCEPORT (NON-KEY NAME X(5) IN 700)
 703? SOURCEQUANT (NON-KEY DECIMAL NUMBER 9(5).99 IN 700)
800? BOILER INFORMATION (RG)
 801? BOILER NUMBER (NAME X(5) IN 800)
 802? TOTAL HR OPERATION (NON-KEY DECIMAL NUMBER 9999.99 IN 800)
 803? CAPACITY FACTOR (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 880? BOILER PART EMISSIONS COAL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 881? BOILER PART EMISSIONS OIL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 882? BOILER SO2 EMISSIONS COAL (NON-KEY DECIMAL NUMBER 9(6).99 IN 800)
 883? BOILER SO2 EMISSIONS OIL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 884? BOILER NOX EMISSIONS COAL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 885? BOILER NOX EMISSIONS OIL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 886? BOILER NOX EMISSIONS GAS (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 804? WINTER PEAK HIGH (NON-KEY NAME XX IN 800)
 805? WINTER PEAK LOW (NON-KEY NAME XX IN 800)
 806? WINTER PEAK HIGH1 (NON-KEY NAME XX IN 800)
 807? WINTER PEAK LOW1 (NON-KEY NAME XX IN 800)
 809? SUMMER PEAK HIGH (NON-KEY NAME XX IN 800)
 810? SUMMER PEAK LOW (NON-KEY NAME XX IN 800)
 811? SUMMER PEAK HIGH1 (NON-KEY NAME XX IN 800)
 812? SUMMER PEAK LOW1 (NON-KEY NAME XX IN 800)
 816? LOWEST WEEK HIGH (NON-KEY NAME XX IN 800)
 817? LOWEST WEEK LOW (NON-KEY NAME XX IN 800)
 818? LOWEST WEEK HIGH1 (NON-KEY NAME XX IN 800)

819? LOWEST WEEK LOW1 (NON-KEY NAME XX IN 800)
821? MECH SEP TEST EFF (NON-KEY DECIMAL NUMBER 999.9 IN 800)
822? MECH SEP TEST DATE (NON-KEY NAME X(8) IN 800)
823? MECH SEP EST EFF (NON-KEY DECIMAL NUMBER 999.9 IN 800)
824? ELEC SEP TYPE (NON-KEY NAME X IN 800)
825? ELEC SEP HOURS IN OP (NON-KEY DECIMAL NUMBER 9(6).9 IN 800)
827? ELEC SEP TEST DATE (NON-KEY NAME X(8) IN 800)
828? HOURS PRECIP OUT (NON-KEY DECIMAL NUMBER 9999.9 IN 800)
830? ESTM EFF PRECIP OUT (NON-KEY DECIMAL NUMBER 999.9 IN 800)
831? ESTM EFF PRCIP ANNUAL (NON-KEY DECIMAL NUMBER 99.9 IN 800)
841? DESULF SYS HOURS (NON-KEY DECIMAL NUMBER 9999.9 IN 800)
832? DESULF SYS TEST EFF (NON-KEY DECIMAL NUMBER 999.9 IN 800)
890? DESULF SYS TEST DATE (NON-KEY NAME X(8) IN 800)
833? DESULF SYS EST EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
834? OTHER GAS CLEANER TYPE HOURS (NON-KEY DECIMAL NUMBER 9999.9 IN 800)
835? SERVICE STACK NUMBER (NON-KEY NAME X(5) IN 800)
836? GENERATOR NUMBER (NON-KEY NAME X(5) IN 800)
837? BOILER MANUFACTURER (NON-KEY NAME X(5) IN 800)
838? YEAR INSTALLED (NON-KEY NAME X(5) IN 800)
839? GENERATING CAPACITY (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
840? HIGHEST STEAM CAPACITY (NON-KEY DECIMAL NUMBER 9(7).99 IN 800)
842? BOILER EFF 100 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 800)
843? BOILER EFF 75 LOAD (NON-KEY DECIMAL NUMBER 99.9 IN 800)
844? BOILER EFF 50 LOAD (NON-KEY DECIMAL NUMBER 99.9 IN 800)
845? TOTAL AIR FLOW (NON-KEY DECIMAL NUMBER 9(8).99 IN 800)
846? EXCESS AIR (NON-KEY DECIMAL NUMBER 99.9 IN 800)
847? WET-DRY BOTTOM (NON-KEY NAME XXX IN 800)
848? FLYASH REINJECTION (NON-KEY NAME XXX IN 800)
849? TYPE OF FIRING (NON-KEY NAME X(5) IN 800)
850? GAS CLEAN TYPE (NON-KEY NAME X(5) IN 800)
851? GAS CLEAN EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
852? GAS CLEAN MASS RATE (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
853? GAS CLEAN YEAR (NON-KEY NAME X(5) IN 800)
854? GAS CLEAN COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
855? GAS CLEAN MANUFACTURER (NON-KEY NAME X(5) IN 800)
856? ELECT PRECIP TYPE (NON-KEY NAME X IN 800)
857? ELECT PRECIP EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
858? ELECT PRECIP MASS (NON-KEY DECIMAL NUMBER 9(6).99 IN 800)
859? ELECT PRECIP YEAR (NON-KEY NAME X(5) IN 800)
860? ELECT PRECIP COST (NON-KEY DECIMAL NUMBER 9(5).9 IN 800)
861? ELECT PRECIP MANUFACTURER (NON-KEY NAME X(5) IN 800)
862? DESIGN COAL CONSUMP (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
863? DESIGN OIL CONSUMP (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
864? DESIGN GAS COMSUMP (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
865? DESULF EQUIP TYPE (NON-KEY NAME X(5) IN 800)
866? DESULF EQUIP EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
867? DESULF EQUIP MASS (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
868? DESULF EQUIP YEAR (NON-KEY NAME X(5) IN 800)
869? DESULF EQIP COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
870? DESULF EQUIP MANUFACTURER (NON-KEY NAME X(5) IN 800)
871? OTHER EQUIP (NON-KEY NAME X(5) IN 800)
872? OTHER EQUIP EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
873? OTHER EQUIP MASS (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
874? OTHER EQUIP YEAR (NON-KEY NAME X(5) IN 800)
875? OTHER EQUIP COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
876? OTHER EQUIP MANUFACTURER (NON-KEY NAME X(5) IN 800)
300? BOILER FUEL (RG IN 800)
314? BOILER FUEL NAME (NAME X(5) IN 300)
302? JAN FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)

303? FEB FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
304? MAR FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
305? APR FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
306? MAY FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
307? JUNE FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
308? JULY FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
309? AUG FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
310? SEPT FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
311? OCT FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
312? NOV FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
313? DEC FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
315? TOTAL FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)

400? STACK INFORMATION (RG)

401? STACK NUMBER (NAME X(5) IN 400)
402? INSTALLED COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 400)
403? STACK HEIGHT (NON-KEY DECIMAL NUMBER 9999.99 IN 400)
404? STACK INSIDE DIAMETER (NON-KEY DECIMAL NUMBER 999.99 IN 400)
405? FLUE GAS RATE 100 LOAD (NON-KEY DECIMAL NUMBER 9(7).99 IN 400)
406? FLUE GAS RATE 75 LOAD (NON-KEY DECIMAL NUMBER 9(7).99 IN 400)
407? FLUE GAS RATE 50 LOAD (NON-KEY DECIMAL NUMBER 9(7).99 IN 400)
408? EXIT GAS TEMP 100 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
409? EXIT GAS TEMP 75 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
410? EXIT GAS TEMP 50 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
411? EXIT GAS SPEED 100 LOAD (NON-KEY DECIMAL NUMBER 9999.9 IN 400)
412? EXIT GAS SPEED 75 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
413? EXIT GAS SPEED 50 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
414? DISTANCE TO NEXT STACK (NON-KEY DECIMAL NUMBER 9999.9 IN 400)
415? ORIENTATION OF STACK (NON-KEY DECIMAL NUMBER 999.9 IN 400)

200? FOOTNOTES (RG)

201? FOOTNOTE KEY (NAME X(7) IN 200)
202? TEXXT (NON-KEY NAME X(28) IN 200)
203? DUMMY (NON-KEY NAME X(5) IN 200)

FPCYY

DATA BASE DEFINITION
(FOR DATA BASES FPC74, FPC75, FPC76)

SYSTEM RELEASE NUMBER 2.60D

DATA BASE NAME IS FPCYY

DEFINITION NUMBER 1

DATA BASE CYCLE 1

1? COMPANY NAME (NON-KEY NAME X(15))
2? PLANT NAME (NON-KEY NAME X(15))
3? FPC CO-PLANT CODE (NAME X(11))
4? NEDS CODE (NAME X(10))
5? PLANT CAPACITY (NON-KEY DECIMAL NUMBER 9(5).99)
12? ROUNDED PLANT CAPACITY (INTEGER NUMBER 9(5))
6? FIPS STATE CODE (NAME XX)
19? STATE NAME (NON-KEY NAME X(10))
7? FIPS COUNTY CODE (NAME XXX)
14? GEOGRAPHIC REGION (NON-KEY NAME XX)
8? POST OFFICE ZIP (NON-KEY NAME X(10))
9? AQCR CODE (NON-KEY NAME XXX)
10? WATER RESOURCES REGION CODE (NON-KEY NAME XX)
11? FPC REGIONAL OFFICE CODE (NON-KEY NAME X)
13? FILING DATE (NON-KEY DATE)
15? FUEL QUALITY REPORTED (NON-KEY NAME X)
16? NET ANNUAL GENERATION (NON-KEY DECIMAL NUMBER 9(8).99)
20? CURR BOILERS (NON-KEY DECIMAL NUMBER 99.)
22? PLUS5 BOILERS (NON-KEY DECIMAL NUMBER 99.)
23? PLUS10 BOILERS (NON-KEY DECIMAL NUMBER 99.)
21? CURR NAME CAP (NON-KEY DECIMAL NUMBER 9(5).99)
24? PLUS5 NAME CAP (NON-KEY DECIMAL NUMBER 9(5).99)
25? PLUS10 NAME CAP (NON-KEY DECIMAL NUMBER 9(5).99)
26? PLUS5 TOTAL BOILERS (NON-KEY DECIMAL NUMBER 99.)
27? PLUS10 TOTAL BOILERS (NON-KEY DECIMAL NUMBER 99.)
28? PLUS5 TOTAL CAP (NON-KEY DECIMAL NUMBER 9(5).99)
29? PLUS10 TOTAL CAP (NON-KEY DECIMAL NUMBER 9(5).99)
30? CURR TOT TSP (NON-KEY DECIMAL NUMBER 9(6).99)
34? PLUS5 TOT TSP (NON-KEY DECIMAL NUMBER 9(6).99)
35? PLUS10 TOT TSP (NON-KEY DECIMAL NUMBER 9(6).99)
31? CURR TOT SOX (NON-KEY DECIMAL NUMBER 9(6).99)
36? PLUS5 TOT SOX (NON-KEY DECIMAL NUMBER 9(6).99)
37? PLUS10 TOT SOX (NON-KEY DECIMAL NUMBER 9(6).99)
32? CURR TOT NOX (NON-KEY DECIMAL NUMBER 9(6).99)
38? PLUS5 TOT NOX (NON-KEY DECIMAL NUMBER 9(6).99)
39? PLUS10 TOT NOX (NON-KEY DECIMAL NUMBER 9(6).99)
33? CURR TOT HEAT (NON-KEY DECIMAL NUMBER 9(6).99)
17? PLUS5 TOT HEAT (NON-KEY DECIMAL NUMBER 9(6).99)
18? PLUS10 TOT HEAT (NON-KEY DECIMAL NUMBER 9(6).99)
101? HEAT RATE (NON-KEY DECIMAL NUMBER 9(6).99)
40? TOTAL LIMESTONE USED (NON-KEY DECIMAL NUMBER 9(5).99)
41? TOTAL DOLOMITE USED (NON-KEY DECIMAL NUMBER 9(5).99)
42? OTHER ADDITIVES USED (NON-KEY DECIMAL NUMBER 9(5).99)
44? TOTAL FLYASH COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
45? TOTAL FLYASH SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
46? TOTAL FLYASH PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)

47? TOTAL FLYASH LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
48? TOTAL FLYASH WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
49? TOTAL FLYASH OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
50? LONGITUDE (NON-KEY DECIMAL NUMBER 999.99)
51? LATITUDE (NON-KEY DECIMAL NUMBER 999.99)
54? TOTAL BOTTOM ASH COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
55? TOTAL BOTTOM ASH SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
56? TOTAL BOTTOM ASH PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
57? TOTAL BOTTOM ASH LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
58? TOTAL BOTTOM ASH WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
59? TOTAL BOTTOM ASH OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
84? TOTAL ELEMENTAL S COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
85? TOTAL ELEMENTAL S SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
86? TOTAL ELEMENTAL S PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
87? TOTAL ELEMENTAL S LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
88? TOTAL ELEMENTAL S WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
89? TOTAL ELEMENTAL S OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
94? TOTAL SO4H2 COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
95? TOTAL SO4H2 SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
96? TOTAL SO4H2 PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
97? TOTAL SO4H2 LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
98? TOTAL SO4H2 WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
99? TOTAL SO4H2 OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
100? PURITY OF SO4H2 (NON-KEY DECIMAL NUMBER 99.9)
104? TOTAL SO2 COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
105? TOTAL SO2 SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
106? TOTAL SO2 PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
107? TOTAL SO2 LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
108? TOTAL SO2 WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
109? TOTAL SO2 OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
114? TOTAL OTHER S COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
115? TOTAL OTHER S SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
116? TOTAL OTHER S PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
117? TOTAL OTHER S LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
118? TOTAL OTHER S WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
119? TOTAL OTHER S OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
124? TOTAL OTHER PRODUCTS COLLECTED (NON-KEY DECIMAL NUMBER 9(5).99)
125? TOTAL OTHER PRODUCTS SOLD (NON-KEY DECIMAL NUMBER 9(5).99)
126? TOTAL OTHER PRODUCTS PAID DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
127? TOTAL OTHER PRODUCTS LAND FILL (NON-KEY DECIMAL NUMBER 9(5).99)
128? TOTAL OTHER PRODUCTS WATER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
129? TOTAL OTHER PRODUCTS OTHER DISPOSAL (NON-KEY DECIMAL NUMBER 9(5).99)
60? FLYASH EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
61? BOTTOM ASH EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
62? SULFUR EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
63? OTHER PRODUCTS EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
68? OTHER AIR QUALITY EXPENSES (NON-KEY DECIMAL NUMBER 9(5).99)
70? SALES OF FLYASH (NON-KEY DECIMAL NUMBER 9(5).99)
72? SALES OF BOTTOM ASH (NON-KEY DECIMAL NUMBER 9(5).99)
73? SALES OF FLY+BOTTOM (NON-KEY DECIMAL NUMBER 9(5).99)
75? SALES OF SULFUR (NON-KEY DECIMAL NUMBER 9(5).99)
77? OTHER REVENUES (NON-KEY DECIMAL NUMBER 9(5).99)
500? FUEL INFORMATION (RG)
501? FUEL NAME (NAME X(5) IN 500)
502? JANTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
592? JANBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
503? JANAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)

504? JANAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
505? JANAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
506? FEBTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
507? FEBBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
508? FEBAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
509? FEBAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
510? FEBAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
511? MARTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
512? MARBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
513? MARAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
514? MARAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
515? MARAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
516? APRTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
517? APRBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
518? APRAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
519? APRAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
520? APRAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
521? MAYTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
522? MAYBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
523? MAYAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
524? MAYAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
525? MAYAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
526? JUNTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
527? JUNBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
528? JUNAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
529? JUNAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
530? JUNAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
531? JULTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
532? JULBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
533? JULAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
534? JULAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
535? JULAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
536? AUGTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
537? AUGBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
538? AUGAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
539? AUGAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
540? AUGAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
541? SEPTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
542? SEPBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
543? SEPAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
544? SEPAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
545? SEPAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
546? OCTTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
547? OCTBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
548? OCTAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
549? OCTAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
550? OCTAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
551? NOVTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
552? NOVBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
553? NOVAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
554? NOVAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
555? NOVAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
556? DECTOTUSED (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
557? DECBTULB (NON-KEY DECIMAL NUMBER 9(6).99 IN 500)
558? DECAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
559? DECAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
560? DECAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
580? YEARTOTUSED (NON-KEY DECIMAL NUMBER 9(7).99 IN 500)

581? YEARTUBL (NON-KEY DECIMAL NUMBER 9(7).99 IN 500)
582? YEARAVGS (NON-KEY DECIMAL NUMBER 99.9 IN 500)
583? YEARAVGASH (NON-KEY DECIMAL NUMBER 99.9 IN 500)
584? YEARAVGMOIST (NON-KEY DECIMAL NUMBER 99.9 IN 500)
700? FUEL SOURCE (RG IN 500)
 701? SOURCENAME (NON-KEY NAME X(10) IN 700)
 702? SOURCEPORT (NON-KEY NAME X(5) IN 700)
 703? SOURCEQUANT (NON-KEY DECIMAL NUMBER 9(5).99 IN 700)
800? BOILER INFORMATION (RG)
 801? BOILER NUMBER (NAME X(5) IN 800)
 802? TOTAL HR OPERATION (NON-KEY DECIMAL NUMBER 9999.99 IN 800)
 803? CAPACITY FACTOR (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 880? BOILER PART EMISSIONS COAL (NON-KEY DECIMAL NUMBER 9(6).99 IN 800)
 881? BOILER PART EMISSIONS OIL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 882? BOILER SO2 EMISSIONS COAL (NON-KEY DECIMAL NUMBER 9(6).99 IN 800)
 883? BOILER SO2 EMISSIONS OIL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 884? BOILER NOX EMISSIONS COAL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 885? BOILER NOX EMISSIONS OIL (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 886? BOILER NOX EMISSIONS GAS (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 804? WINTER PEAK HIGH (NON-KEY NAME XX IN 800)
 805? WINTER PEAK LOW (NON-KEY NAME XX IN 800)
 806? WINTER PEAK HIGH1 (NON-KEY NAME XX IN 800)
 807? WINTER PEAK LOW1 (NON-KEY NAME XX IN 800)
 809? SUMMER PEAK HIGH (NON-KEY NAME XX IN 800)
 810? SUMMER PEAK LOW (NON-KEY NAME XX IN 800)
 811? SUMMER PEAK HIGH1 (NON-KEY NAME XX IN 800)
 812? SUMMER PEAK LOW1 (NON-KEY NAME XX IN 800)
 816? LOWEST WEEK HIGH (NON-KEY NAME XX IN 800)
 817? LOWEST WEEK LOW (NON-KEY NAME XX IN 800)
 818? LOWEST WEEK HIGH1 (NON-KEY NAME XX IN 800)
 819? LOWEST WEEK LOW1 (NON-KEY NAME XX IN 800)
 821? MECH SEP TEST EFF (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 822? MECH SEP TEST DATE (NON-KEY NAME X(8) IN 800)
 823? MECH SEP EST EFF (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 824? ELEC SEP TYPE (NON-KEY NAME X IN 800)
 825? ELEC SEP HOURS IN OP (NON-KEY DECIMAL NUMBER 9(6).9 IN 800)
 826? ELEC SEP TEST EFF (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 827? ELEC SEP TEST DATE (NON-KEY NAME X(8) IN 800)
 828? HOURS PRECIP OUT (NON-KEY DECIMAL NUMBER 9999.9 IN 800)
 830? ESTM EFF PRECIP OUT (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 831? ESTM EFF PRCIP ANNUAL (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 841? DESULF SYS HOURS (NON-KEY DECIMAL NUMBER 9999.9 IN 800)
 832? DESULF SYS TEST EFF (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 890? DESULF SYS TEST DATE (NON-KEY NAME X(8) IN 800)
 833? DESULF SYS EST EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 834? OTHER GAS CLEANER TYPE HOURS (NON-KEY DECIMAL NUMBER 9999.9 IN 800)
 835? SERVICE STACK NUMBER (NON-KEY NAME X(5) IN 800)
 836? GENERATOR NUMBER (NON-KEY NAME X(5) IN 800)
 837? BOILER MANUFACTURER (NON-KEY NAME X(5) IN 800)
 838? YEAR INSTALLED (NON-KEY NAME X(5) IN 800)
 839? GENERATING CAPACITY (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)

840? HIGHEST STEAM CAPACITY (NON-KEY DECIMAL NUMBER 9(7).99 IN 800)
 842? BOILER EFF 100 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 843? BOILER EFF 75 LOAD (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 844? BOILER EFF 50 LOAD (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 845? TOTAL AIR FLOW (NON-KEY DECIMAL NUMBER 9(8).99 IN 800)
 846? EXCESS AIR (NON-KEY DECIMAL NUMBER 999.9 IN 800)
 847? WET-DRY BOTTOM (NON-KEY NAME XXX IN 800)
 848? FLYASH REINJECTION (NON-KEY NAME XXX IN 800)
 849? TYPE OF FIRING (NON-KEY NAME X(5) IN 800)
 850? GAS CLEAN TYPE (NON-KEY NAME X(5) IN 800)
 851? GAS CLEAN EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 852? GAS CLEAN MASS RATE (NON-KEY DECIMAL NUMBER 9(6).9 IN 800)
 853? GAS CLEAN YEAR (NON-KEY NAME X(5) IN 800)
 854? GAS CLEAN COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 855? GAS CLEAN MANUFACTURER (NON-KEY NAME X(5) IN 800)
 856? ELECT PRECIP TYPE (NON-KEY NAME X IN 800)
 857? ELECT PRECIP EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 858? ELECT PRECIP MASS (NON-KEY DECIMAL NUMBER 9(6).9 IN 800)
 859? ELECT PRECIP YEAR (NON-KEY NAME X(5) IN 800)
 860? ELECT PRECIP COST (NON-KEY DECIMAL NUMBER 9(5).9 IN 800)
 861? ELECT PRECIP MANUFACTURER (NON-KEY NAME X(5) IN 800)
 862? DESIGN COAL CONSUMP (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 863? DESIGN OIL CONSUMP (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 864? DESIGN GAS COMSUMP (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 865? DESULF EQUIP TYPE (NON-KEY NAME X(5) IN 800)
 866? DESULF EQUIP EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 867? DESULF EQUIP MASS (NON-KEY. DECIMAL NUMBER 9(5).99 IN 800)
 868? DESULF EQUIP YEAR (NON-KEY NAME X(5) IN 800)
 869? DESULF EQIP COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 870? DESULF EQUIP MANUFACTURER (NON-KEY NAME X(5) IN 800)
 871? OTHER EQUIP (NON-KEY NAME X(5) IN 800)
 872? OTHER EQUIP EFF (NON-KEY DECIMAL NUMBER 99.9 IN 800)
 873? OTHER EQUIP MASS (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 874? OTHER EQUIP YEAR (NON-KEY NAME X(5) IN 800)
 875? OTHER EQUIP COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 800)
 876? OTHER EQUIP MANUFACTURER (NON-KEY NAME X(5) IN 800)
 300? BOILER FUEL (RG IN 800)
 314? BOILER FUEL NAME (NAME X(5) IN 300)
 302? JAN FUEL (NON-KEY DECIMAL NUMBER 9(5):99 IN 300)
 303? FEB FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 304? MAR FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 305? APR FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 306? MAY FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 307? JUNE FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 308? JULY FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 309? AUG FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 310? SEPT FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 311? OCT FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 312? NOV FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 313? DEC FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 315? TOTAL FUEL (NON-KEY DECIMAL NUMBER 9(5).99 IN 300)
 400? STACK INFORMATION (RG)
 401? STACK NUMBER (NAME X(5) IN 400)
 402? INSTALLED COST (NON-KEY DECIMAL NUMBER 9(5).99 IN 400)
 403? STACK HEIGHT (NON-KEY DECIMAL NUMBER 9999.99 IN 400)
 404? STACK INSIDE DIAMETER (NON-KEY DECIMAL NUMBER 999.99 IN 400)
 405? FLUE GAS RATE 100 LOAD (NON-KEY DECIMAL NUMBER 9(7).99 IN 400)
 406? FLUE GAS RATE 75 LOAD (NON-KEY DECIMAL NUMBER 9(7).99 IN 400)

407? FLUE GAS RATE 50 LOAD (NON-KEY DECIMAL NUMBER 9(7).99 IN 400)
408? EXIT GAS TEMP 100 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
409? EXIT GAS TEMP 75 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
410? EXIT GAS TEMP 50 LOAD (NON-KEY DECIMAL NUMBER 999.9 IN 400)
411? EXIT GAS SPEED 100 LOAD (NON-KEY DECIMAL NUMBER 9999.9 IN 400)
412? EXIT GAS SPEED 75 LOAD (NON-KEY DECIMAL NUMBER 9(4).9 IN 400)
413? EXIT GAS SPEED 50 LOAD (NON-KEY DECIMAL NUMBER 9(4).9 IN 400)
414? DISTANCE TO NEXT STACK (NON-KEY DECIMAL NUMBER 9999.9 IN 400)
415? ORIENTATION OF STACK (NON-KEY DECIMAL NUMBER 999.9 IN 400)
200? FOOTNOTES (RG)
201? FOOTNOTE KEY (NAME X(7) IN 200)
202? TEXXT (NON-KEY NAME X(28) IN 200)
203? BOILERNO (NON-KEY NAME X(5) IN 200)
600? PROJECTED FUEL (RG)
601? PROJ FUEL NAME (NAME X(5) IN 600)
602? PROJ FUEL QUANT (NON-KEY DECIMAL NUMBER 9(7).99 IN 600)
603? PROJ HEAT VALUE (NON-KEY DECIMAL NUMBER 9(7).99 IN 600)
604? PROJ S CONTENT (NON-KEY DECIMAL NUMBER 99.9 IN 600)
605? PROJ ORIGIN (NON-KEY NAME X(5) IN 600)
606? PROJ DOMESTIC (NON-KEY DECIMAL NUMBER 9(6).99 IN 600)
607? PROJ IMPORTED (NON-KEY DECIMAL NUMBER 9(6).99 IN 600)
608? PROJ ORG2 (NON-KEY NAME X(5) IN 600)
609? PROJ ORG3 (NON-KEY NAME X(5) IN 600)
610? TIME INTERVAL (NAME X(5) IN 600)
611? PROJ ORG4 (NON-KEY NAME X(5) IN 600)
612? PROJ ORG OTHER (NON-KEY NAME X(5) IN 600)

FPCYY

LIST OF DATA BASE COMPONENTS
(IN ASCENDING ORDER)

COMPONENT NUMBER, COMPONENT NAME, KEY OR NOT, FORM 67 PAGE-SHEET-LINE-COLUMN,
COMPONENT DESCRIPTION

(FOR A DETAILED DESCRIPTION OF THE FPC DATA PLEASE REFER TO THE FPC FORM 67,
"STEAM-ELECTRIC PLANT AIR AND WATER QUALITY CONTROL DATA FOR THE YEAR ENDED
DECEMBER 31, 19YY")

C1	COMPANY NAME	NON-KEY
	02-01-00-1 utility name.	
C2	PLANT NAME	NON-KEY
	02-01-00-2 plant name.	
C3	FPC CO-PLANT CODE	KEY
	FPC company - plant code.	
C4	NEDS CODE	KEY
	NEDS plant code.	
C5	PLANT CAPACITY	NON-KEY
	02-01-00-B plant capacity (megawatts).	
C6	FIPS STATE CODE	KEY
	FIPS state code.	
C7	FIPS COUNTY CODE	KEY
	FIPS county code.	
C8	POST OFFICE ZIP	NON-KEY
	02-01-00-E post office zip code.	
C9	AQCR CODE	NON-KEY
	Air Quality Control Region (AQCR) where plant is located (Reference: Federal Air Quality Control Regions, publication No. AP-102, EPA ⁽¹⁾).	
C10	WATER RESOURCES REGION CODE	NON-KEY
	Water Resources Region (WRR) Code.	
C11	FPC REGIONAL OFFICE CODE	NON-KEY
	FPC Regional Office Code.	
C12	ROUNDED PLANT CAPACITY	KEY
	Rounded figure for plant capacity (megawatts) (for key search purposes).	
C13	FILING DATE	NON-KEY
	Date report was filed.	

(1) EPA = Environmental Protection Agency.

C30 CURR TOT TSP NON-KEY
23-01-01-B current plant particulate emissions calculated by utility using formula in FORM 67 (1000 tons/year).

C31 CURR TOT SOX NON-KEY
23-01-02-B current plant SO_x emissions calculated by utility using formula in FORM 67 (1000 tons SO₂/yr).

C32 CURR TOT NOX NON-KEY
23-01-03-B current plant NO_x emissions calculated by utility using formula in FORM 67 (1000 tons NO₂/yr).

C33 CURR TOT HEAT NON-KEY
23-01-04-B current total heat rejected to air (10⁹ BTU/yr).

C34 PLUS5 TOT TSP NON-KEY
23-01-01-C 5 yr projection of plant particulate emissions calculated by utility using formula in FORM 67 (1000 tons/yr).

C35 PLUS10 TOT TSP NON-KEY
23-01-01-D 10 yr projection of plant particulate emissions calculated by utility using formula in FORM 67 (1000 tons/yr).

C36 PLUS5 TOT SOX NON-KEY
23-01-02-C 5 yr projection of plant SO_x emissions calculated by utility using formula in FORM 67 (1000 tons SO₂/yr).

C37 PLUS10 TOT SOX NON-KEY
23-01-02-D 10 yr projection of plant SO_x emissions calculated by utility using formula in FORM 67 (1000 tons SO₂/yr).

C38 PLUS5 TOT NOX NON-KEY
23-01-03-C 5 yr projection of plant NO_x emissions calculated by utility using formula in FORM 67 (1000 tons NO₂/yr).

C39 PLUS10 TOT NOX NON-KEY
23-01-03-D 10 yr projection of plant NO_x emissions calculated by utility using formula in FORM 67 (1000 tons NO₂/yr).

C40 TOTAL LIMESTONE USED NON-KEY
07-01-01-B amount of limestone used as additive (1000 tons).

C41 TOTAL DOLAMITE USED NON-KEY
07-01-01-C amount of dolomite used as additive (1000 tons).

C42 OTHER ADDITIVES USED NON-KEY
07-01-01-D amount of other additives used (1000 tons).

C44 TOTAL FLYASH COLLECTED NON-KEY
07-01-02-B total flyash collected (1000 tons).

C45 TOTAL FLYASH SOLD NON-KEY
07-01-02-C total flyash sold (1000 tons).

'46 TOTAL FLYASH PAID DISPOSAL NON-KEY
07-01-02-D total flyash paid disposal (1000 tons).

C47 TOTAL FLYASH LAND FILL NON-KEY
07-01-02-E total flyash used for land fill (1000 tons).

C48 TOTAL FLYASH WATER DISPOSAL NON-KEY
07-01-02-F total flyash used for water disposal (1000 tons).

C49 TOTAL FLYASH OTHER DISPOSAL NON-KEY
07-01-02-G total flyash disposed by other means (1000 tons).

C50 LONGITUDE NON-KEY
Longitude of plant (degrees to 0.01).

C51 LATITUDE NON-KEY
Latitude of plant (degrees to 0.01).

C54 TOTAL BOTTOM ASH COLLECTED NON-KEY
07-01-03-B total bottom ash collected (1000 tons).

C55 TOTAL BOTTOM ASH SOLD NON-KEY
07-01-03-C bottom ash sold (1000 tons).

C56 TOTAL BOTTOM ASH PAID DISPOSAL NON-KEY
07-01-03-D bottom ash paid disposal (1000 tons).

C57 TOTAL BOTTOM ASH LAND FILL NON-KEY
07-01-03-E bottom ash used for land fill (1000 tons).

C58 TOTAL BOTTOM ASH WATER DISPOSAL NON-KEY
07-01-03-F bottom ash used for water disposal (1000 tons).

C59 TOTAL BOTTOM ASH OTHER DISPOSAL NON-KEY
07-01-03-G bottom ash disposed by other means (1000 tons).

C60 FLYASH EXPENSES NON-KEY
07-01-09-B expenses in flyash collection and disposal (\$1000).

C61 BOTTOM ASH EXPENSES NON-KEY
07-01-10-B expenses in bottom ash collection and disposal (\$1000).

C62 SULFUR EXPENSES NON-KEY
07-01-11-B expenses in sulfur and sulfur product collection and disposal (\$1000).

C63 OTHER PRODUCTS EXPENSES NON-KEY
07-01-12-B expenses in collection and disposal of other products from flue gases (\$1000).

C68 OTHER AIR QUALITY EXPENSES NON-KEY
07-01-13-B other air quality control expenses (\$1000).

C70 SALES OF FLYASH NON-KEY
07-01-15-B revenues from sales of flyash (\$1000).

C72 SALES OF BOTTOM ASH NON-KEY
07-01-16-B revenues from sales of bottom ash (\$1000).

C73 SALES OF FLY + BOTTOM NON-KEY
07-01-17-B revenues from sales of intermingled flyash and bottom ash (\$1000).

C75 SALES OF SULFUR NON-KEY
07-01-18-B revenues from sales of sulfur and sulfur products (\$1000).

C77 OTHER REVENUES NON-KEY
07-01-19-B other revenues from air quality control operations (\$1000).

C84 TOTAL ELEMENTAL S COLLECTED NON-KEY
07-01-04-B total elemental sulfur collected (1000 tons).

C85 TOTAL ELEMENTAL S SOLD NON-KEY
07-01-04-C total elemental sulfur sold (1000 tons).

C86 TOTAL ELEMENTAL S PAID NON-KEY
07-01-04-D elemental sulfur paid disposal (1000 tons).

C87 TOTAL ELEMENTAL S LAND FILL NON-KEY
07-01-04-E elemental sulfur used in land fill (1000 tons).

C88 TOTAL ELEMENTAL S WATER DISPOSAL NON-KEY
07-01-04-F elemental sulfur used in water disposal (1000 tons).

C89 TOTAL ELEMENTAL S OTHER DISPOSAL NON-KEY
07-01-04-G elemental sulfur disposed by other means (1000 tons).

C94 TOTAL SULFURIC ACID COLLECTED NON-KEY
07-01-05-B total sulfuric acid collected (1000 tons).

C95 TOTAL SULFURIC ACID SOLD NON-KEY
07-01-05-C sulfuric acid sold (1000 tons).

C96 TOTAL SULFURIC ACID PAID DISPOSAL NON-KEY
07-01-05-D sulfuric acid paid disposal (1000 tons).

C97 TOTAL SULFURIC ACID LAND FILL NON-KEY
07-01-05-E sulfuric acid used in land fill (1000 tons).

C98 TOTAL SULFURIC ACID WATER DISPOSAL NON-KEY
07-01-05-F sulfuric acid used in water disposal (1000 tons).

C99 TOTAL SULFURIC ACID OTHER DISPOSAL NON-KEY
07-01-05-G sulfuric acid disposed by other means (1000 tons).

C100 PURITY OF SULFURIC ACID NON-KEY
07-01-05-I purity of sulfuric acid (%).

C101 HEAT RATE NON-KEY
14-01-00-G heat rate (BTU/kilowatt-hr).

C104 TOTAL SO₂ COLLECTED NON-KEY
07-01-06-B total SO₂ collected (1000 tons).

C105 TOTAL SO₂ SOLD NON-KEY
07-01-06-C SO₂ sold (1000 tons).

C106 TOTAL SO₂ PAID DISPOSAL NON-KEY
07-01-06-D SO₂ paid disposal (1000 tons).

C107 TOTAL SO₂ LAND FILL NON-KEY
07-01-06-E SO₂ used in land fill (1000 tons).

C108 TOTAL SO₂ WATER DISPOSAL NON-KEY
07-01-06-F SO₂ used in water disposal (1000 tons).

C109 TOTAL SO₂ OTHER DISPOSAL NON-KEY
07-01-06-G SO₂ disposed by other means (1000 tons).

C114 TOTAL OTHER S COLLECTED NON-KEY
07-01-07-B other sulfur products-total collected (1000 tons).

C115 TOTAL OTHER S SOLD NON-KEY
07-01-07-C other sulfur products sold (1000 tons).

C116 TOTAL OTHER S PAID DISPOSAL NON-KEY
07-01-07-D other sulfur products paid disposal (1000 tons).

C117 TOTAL OTHER S LAND FILL NON-KEY
07-01-07-E other sulfur products used in land fill (1000 tons).

C118 TOTAL OTHER S WATER DISPOSAL NON-KEY
07-01-07-F other sulfur products used in water disposal (1000 tons).

C119 TOTAL OTHER S OTHER DISPOSAL NON-KEY
07-01-07-G other sulfur products disposed by other means (1000 tons).

C124 TOTAL OTHER PRODUCTS COLLECTED NON-KEY
07-01-08-B other products of combustion total collected (1000 tons).

C125 TOTAL OTHER PRODUCTS SOLD NON-KEY
07-01-08-C other products of combustion sold (1000 tons).

C126 TOTAL OTHER PRODUCTS PAID DISPOSAL NON-KEY
07-01-08-D other products of combustion paid disposal (1000 tons).

C127 TOTAL OTHER PRODUCTS LAND FILL NON-KEY
07-01-08-E other products of combustion used in land fill (1000 tons).

C128 TOTAL OTHER PRODUCTS WATER DISPOSAL NON-KEY
07-01-08-F other products of combustion used in water disposal (1000 tons).

C129 TOTAL OTHER PRODUCTS OTHER DISPOSAL NON-KEY
07-01-08-G other products of combustion disposed by other means (1000 tons).

C200 FOOTNOTES
Footnotes repeating group.

C201 FOOTNOTE KEY KEY
Page/sheet/line/col to which footnote applies.

C202 TEXXT NON-KEY
Footnote text.

C203 BOILERNO NON-KEY
Boiler number to which footnote applies.

C300 BOILER FUEL
Boiler fuel information repeating group.

C302 JAN FUEL NON-KEY
05-01-02-B/C/D fuel consumption at boiler for January (1000 tons or 1000 barrels or 1000 Mcf⁽¹⁾).

C303 FEB FUEL NON-KEY
05-01-03-B/C/D fuel consumption at boiler for February (1000 tons or 1000 barrels or 1000 Mcf).

C304 MAR FUEL NON-KEY
05-01-04-B/C/D fuel consumption at boiler for March (1000 tons or 1000 barrels or 1000 Mcf).

C305 APR FUEL NON-KEY
05-01-05-B/C/D fuel consumption at boiler for April (1000 tons or 1000 barrels or 1000 Mcf).

C306 MAY FUEL NON-KEY
05-01-06-B/C/D fuel consumption at boiler for May (1000 tons or 1000 barrels or 1000 Mcf).

C307 JUNE FUEL NON-KEY
05-01-07-B/C/D fuel consumption at boiler for June (1000 tons or 1000 barrels or 1000 Mcf).

(1) Mcf = 10^3 ft.³

C308 JULY FUEL NON-KEY
05-01-08-B/C/D fuel consumption at boiler for July (1000 tons or 1000 barrels or 1000 Mcf).

C309 AUG FUEL NON-KEY
05-01-09-B/C/D fuel consumption at boiler for August (1000 tons or 1000 barrels or 1000 Mcf).

C310 SEPT FUEL NON-KEY
05-01-10-B/C/D fuel consumption at boiler for September (1000 tons or 1000 barrels or 1000 Mcf).

C311 OCT FUEL NON-KEY
05-01-11-B/C/D fuel consumption at boiler for October (1000 tons or 1000 barrels or 1000 Mcf).

C312 NOV FUEL NON-KEY
05-01-12-B/C/D fuel consumption at boiler for November (1000 tons or 1000 barrels or 1000 Mcf).

C303 DEC FUEL NON-KEY
05-01-13-B/C/D fuel consumption at boiler for December (1000 tons or 1000 barrels or 1000 Mcf).

C314 BOILER FUEL NAME KEY
Fuel name.

C315 TOTAL FUEL NON-KEY
05-01-14-B/C/D total yearly fuel consumption by boiler (1000 tons or 1000 barrels or 1000 Mcf).

C400 STACK INFORMATION
Stack information repeating group.

C401 STACK NUMBER KEY
11-43-B/C/D/E stack number.

C402 INSTALLED COST NON-KEY
11-44-B/C/D/E installed cost of stack (\$1000).

C403 STACK HEIGHT NON-KEY
11-45-B/C/D/E stack height above ground (feet).

C404 STACK INSIDE DIAMETER NON-KEY
11-46-B/C/D/E inside diameter of flue at top (inches).

C405 FLUE GAS RATE 100 LOAD NON-KEY
11-47-B/C/D/E flue gas rate at 100% load (cubic feet/min).

C406 FLUE GAS RATE 75 LOAD NON-KEY
11-48-B/C/D/E flue gas rate at 75% load (cubic feet/min).

C407 FLUE GAS RATE 50 LOAD NON-KEY
11-49-B/C/D/E flue gas rate at 50% load (cubic feet/min).

C408 EXIT GAS TEMP 100 LOAD NON-KEY
11-50-B/C/D/E exit gas temperature at 100% load (°F).

C409 EXIT GAS TEMP 75 LOAD NON-KEY
11-51-B/C/D/E exit gas temperature at 75% load (°F).

C410 EXIT GAS TEMP 50 LOAD NON-KEY
11-52-B/C/D/E exit gas temperature at 50% load (°F).

C411 EXIT GAS SPEED 100 LOAD NON-KEY
11-53-B/C/D/E exit gas velocity at 100% load (ft/sec).

C412 EXIT GAS SPEED 75 LOAD NON-KEY
11-54-B/C/D/E exit gas velocity at 75% load (ft/sec).

C413 EXIT GAS SPEED 50 LOAD NON-KEY
11-55-B/C/D/E exit gas velocity at 50% load (ft/sec).

C414 DISTANCE TO NEXT STACK NON-KEY
11-56-B/C/D/E distance to next stack, center to center (ft).

C415 ORIENTATION OF STACK NON-KEY
11-57 orientation of line of stack (degrees clockwise from true north).

C500 FUEL INFORMATION
Fuel information repeating group.

C501 FUEL NAME KEY
Fuel name.

C502 JANOTUSED NON-KEY
02-01-01-B/G/J January fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C503 JANAVGS NON-KEY
02-01-01-D/I average % sulfur of fuel used in January.

C504 JANAVGASH NON-KEY
02-01-01-E average % ash of coal used in January.

C505 JANAVGMOIST NON-KEY
02-01-01-F average % moisture of coal used in January.

C506 FEBTOTUSED NON-KEY
02-01-02-B/G/J February fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C507 FEBBTULB NON-KEY
02-01-02-C/H/K heat content of fuel used in February (BTU/lb BTU/gal or BTU/ft³).

C508 FEBAVGS NON-KEY
02-01-02-D/I average % sulfur of fuel used in February.

C509 FEBAVGASH NON-KEY
02-01-02-E average % ash of coal used in February.

C510 FEBAVGMOIST NON-KEY
02-01-02-F average % moisture of coal used in February.

C511 MARTOTUSED NON-KEY
02-01-03-B/G/J March fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C512 MARBTULB NON-KEY
02-01-03-C/H/K heat content of fuel used in March (BTU/lb or BTU/gal or BTU/ft³).

C513 MARAVGS NON-KEY
02-01-03-D/I average % sulfur of fuel used in March.

C514 MARAVGASH NON-KEY
02-01-03-E average % ash of coal used in March.

C515 MARAVGMOIST NON-KEY
02-01-03-F average % moisture of coal used in March.

C516 APRTOTUSED NON-KEY
02-01-04-B/G/J April fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C517 APRBTULB NON-KEY
02-01-04-C/H/K heat content of fuel used in April (BTU/lb or BTU/gal or BTU/ft³).

C518 APRAVGS NON-KEY
02-01-04-D/I average % sulfur of fuel used in April.

C519 APRAVGASH NON-KEY
02-01-04-E average % ash of coal used in April.

C520 APRAVGMOIST NON-KEY
02-01-04-F average % moisture of coal used in April.

C521 MAYTOTUSED NON-KEY
02-01-05-B/G/J May fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C522 MAYBTULB NON-KEY
02-01-05-C/H/K heat content of fuel used in May (BTU/lb or BTU/gal or BTU/ft³).

C523 MAYAVGS NON-KEY
02-01-05-D/I average % sulfur of fuel used in May.

C524 MAYAVGASH NON-KEY
02-01-05-E average % ash of coal used in May.

C525 MAYAVGMOIST NON-KEY
02-01-05-F average % moisture of coal used in May.

C526 JUNTOTUSED NON-KEY
02-01-06-B/G/J June fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C527 JUNBTULB NON-KEY
02-01-06-C/H/K heat content of fuel used in June (BTU/lb or BTU/gal or BTU/ft³).

C528 JUNAVGS NON-KEY
02-01-06-D/I average % sulfur of fuel used in June.

C529 JUNAVGASH NON-KEY
02-01-06-E average % ash of coal used in June.

C530 JUNAVGMOIST NON-KEY
02-01-06-F average % moisture of coal used in June.

C531 JULTOTUSED NON-KEY
02-01-07-B/G/J July fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C532 JULBTULB NON-KEY
02-01-07-C/H/K heat content of fuel used in July (BTU/lb or BTU/gal or BTU/ft³).

C533 JULAVGS NON-KEY
02-01-07-D/I average % sulfur of fuel used in July.

C534 JULAVGASH NON-KEY
02-01-07-E average % ash of coal used in July.

C535 JULAVGMOIST NON-KEY
02-01-07-F average % moisture of coal used in July.

C536 AUGTOTUSED NON-KEY
02-01-08-B/G/J August fuel consumption (1000 tons or 1000 barrels or 1000 Mcf).

C537 AUGBTULB NON-KEY
02-01-08-C/H/K heat content of fuel used in August (BTU/lb or BTU/gal or BTU/ft³).

C538 AUGAVGS NON-KEY
02-01-08-D/I average % sulfur of fuel used in August.

C539 AUGAVGASH NON-KEY
02-01-08-E average % ash of coal used in August.

C540 AUGAVGMOIST NON-KEY
02-01-08-F average % moisture of coal used in August.

C541 SEPTOTUSED NON-KEY
02-01-09-B/G/J September fuel consumption (1000 tons or 1000 barrels or 1000 Mcf.)

C542 SEPBTULB NON-KEY
02-01-09-C/H/K heat content of fuel used in September (BTU/lb or BTU/gal or BTU/ft³).

C543 SEPAVGS NON-KEY
02-01-09-D/I average % sulfur of fuel used in September.

C544 SEPAVGASH NON-KEY
02-01-09-E average % ash of coal used in September.

C545 SEPAVGMOIST NON-KEY
02-01-09-F average % moisture of coal used in September.

C546 OCTTOTUSED NON-KEY
02-01-10-B/G/J October fuel consumption (1000 tons or 1000 barrels or 1000 Mcf.).

C547 OCTBTULB NON-KEY
02-01-10-C/H/K heat content of fuel used in October (BTU/lb or BTU/gal or BTU/ft³).

C548 OCTAVGS NON-KEY
02-01-10-D/I average % sulfur of fuel used in October.

C549 OCTAVGASH NON-KEY
02-01-10-E average % ash of coal used in October.

C550 OCTAVGMOIST NON-KEY
02-01-10-F average % moisture of coal used in October.

C551 NOVTOTUSED NON-KEY
02-01-11-B/G/J November fuel consumption (1000 tons or 1000 barrels or 1000 Mcf.).

C552 NOVBTULB NON-KEY
02-01-11-C/H/K heat content of fuel used in November (BTU/lb or BTU/gal or BTU/ft³).

C553 NOVAVGS NON-KEY
02-01-11-D/I average % sulfur of fuel used in November.

C554 NOVAVGASH NON-KEY
02-01-11-E average % ash of coal used in November.

C555 NOVAVGMOIST NON-KEY
02-01-11-F average % moisture of coal used in November.

C556 DECTOTUSED NON-KEY
02-01-12-B/G/J December fuel consumption (1000 tons or 1000 barrel or 1000 Mcf.)

C557 DECBTULB NON-KEY
02-01-12-C/H/K heat content of fuel used in December (BTU/lb or BTU/gal or BTU/ft³).

C558 DECAVGS NON-KEY
02-01-12-D/I average % sulfur of fuel used in December.

C559 DECAVGASH NON-KEY
02-01-12-E average % ash of coal used in December.

C560 DECAVGMOIST NON-KEY
02-01-12-F average % moisture of coal used in December.

C580 YEARTOTUSED NON-KEY
02-01-13-B/G/J total fuel consumption for year (1000 tons or 1000 barrels or 1000 Mcf.)

C581 YEARBTULB NON-KEY
02-01-13-C/H/K average heat content of fuel used for year (BTU/lb or BTU/gal or BTU/ft³).

C582 YEARAVGS NON-KEY
01-01-13-D/I average % sulfur of fuel used for year.

C583 YEARAVGASH NON-KEY
02-01-13-E average % ash of coal used for year.

C584 YEARAVGMOIST NON-KEY
02-01-13-F average % moisture of coal used for year.

C592 JANBTULB NON-KEY
02-01-01-C/H/K heat content of fuel used in January (BTU/lb or BTU/gal or BTU/ft³).

C600 PROJECTED FUEL
Projected fuel information repeating group (available after 1974).

C601 PROJ FUEL NAME KEY
Projected fuel name.

C602 PROJ FUEL QUANT NON-KEY
22-01-01/05/10/13/19-B/C/D proj fuel quant (1000 tons or 1000 barrels or 1000 Mcf.).

C603 PROJ HEAT VALUE NON-KEY
22-01-02/06/10/13/20-B/C/D proj fuel avg htg val (BTU/lb or BTU/gal or BTU/ft³).

C604 PROJ S CONTENT NON-KEY
22-01-03/07/14-B/C/D average % sulfur of projected fuel.

C605 PROJ ORIGIN NON-KEY
22-01-04-B/C/D projected fuel consumption from source No. 1 as Bureau of Mines region No./quantity in 1000 tons.

C606 PROJ DOMESTIC NON-KEY
22-01-12, 15, 19-B/C/D if oil, percent domestic source. If gas, 1000 Mcf firm.

C607 PROJ IMPORTED NON-KEY
22-01-13, 16, 20-B/C/D if oil, percent imported source. If gas, 1000 Mcf interruptable.

C608 PROJ ORG2 NON-KEY
22-01-05-B/C/D projected fuel consumption from source No. 2 as Bureau of Mines region No./quantity in 1000 tons.

C609 PROJ ORG3 NON-KEY
22-01-06-B/C/D projected fuel consumption from source No. 3 as Bureau of Mines region No./quantity in 1000 tons.

C610 TIME INTERVAL KEY
Time interval of projection (Curr/FUT5/FUT10).

C611 PROJ ORG4 NON-KEY
22-01-07-B/C/D projected fuel consumption from source No. 4 as Bureau of Mines region No./quantity in 1000 tons.

C612 PROJ ORG NON-KEY
22-01-08-B/C/D projected fuel consumption from all other sources as Bureau of Mines region no./quantity in 1000 tons.

C700 FUEL SOURCE
Fuel source repeating group.

C701 SOURCENAME NON-KEY
03-01-14-22-B/D source or supplier of fuel.

C702 SOURCEPORT NON-KEY
03-01-14-22-E refinery or port of entry (for oil only).

C703 SOURCEQUANT NON-KEY
03-01-14-22-F/C quantity of fuel from source (1000 tons or 1000 barrels).

C800 BOILER INFORMATION
Boiler information repeating group.

C801 BOILER NUMBER KEY
05-01-01-B boiler number.

C802 TOTAL HR OPERATION NON-KEY
05-01-19-B total hours of boiler operation during year.

C803 CAPACITY FACTOR NON-KEY
05-01-20-B boiler capacity factor, average for year (%).

C804	WINTER PEAK HIGH	NON-KEY
	05-01-16-B code for winter peak week, average for consecutive 4 hrs of highest output, weekdays (see Table 7).	
C805	WINTER PEAK LOW	NON-KEY
	05-01-16-C boiler operation code for winter peak week, average for consecutive 4 hrs of lowest output, weekdays (see Table 7).	
C806	WINTER PEAK HIGH1	NON-KEY
	05-01-16-D boiler operation code for winter peak week, average for consecutive 4 hrs of highest output, weekends (see Table 7).	
C807	WINTER PEAK LOW1	NON-KEY
	05-01-16-E boiler operation code for winter peak week, average for consecutive 4 hrs of lowest output, weekends (see Table 7).	
C809	SUMMER PEAK HIGH	NON-KEY
	05-01-17-B boiler operation code for summer peak week, average for consecutive 4 hrs of highest output, weekdays (see Table 7).	
C810	SUMMER PEAK LOW	NON-KEY
	05-01-17-C boiler operation code for summer peak week, average for consecutive 4 hrs of lowest output, weekdays (see Table 7).	
C811	SUMMER PEAK HIGH1	NON-KEY
	05-01-17-D boiler operation code for summer peak week, average for consecutive 4 hrs of highest output, weekends (see Table 7).	
C812	SUMMER PEAK LOW1	NON-KEY
	05-01-17-E boiler operation code for summer peak week, average for consecutive 4 hrs of lowest output, weekends (see Table 7).	
C816	LOWEST WEEK HIGH	NON-KEY
	05-01-18-B boiler operation code for lowest power period week, average for consecutive 4 hrs of highest output, weekdays (see Table 7).	
C817	LOWEST WEEK LOW	NON-KEY
	05-01-18-C boiler operation code for lowest power period week, average for consecutive 4 hrs of lowest output, weekdays (see Table 7).	
C818	LOWEST WEEK HIGH1	NON-KEY
	05-01-18-D boiler operation code for lowest power period week, average for consecutive 4 hrs of highest output, weekends (see Table 7).	
C819	LOWEST WEEK LOW1	NON-KEY
	05-01-18-E boiler operation code for lowest power period week, average for consecutive 4 hrs of lowest output, weekends (see Table 7).	
C821	MECH SEP TEST EFF	NON-KEY
	06-01-22-B/C/D/E mechanical separators-test efficiency.	
C822	MECH SEP TEST DATE	NON-KEY
	06-01-23-B/C/D/E/ mechanical separators-date of test (year/month/day).	

C823 MECH SEP EST EFF NON-KEY
06-01-24-B/C/D/E estimated efficiency at annual operating factor (if no test during year).

C824 ELEC SEP TYPE NON-KEY
06-01-25-B/C/D/E electrostatic or combination precipitators type (E=electrostatic, C=combination).

C825 ELEC SEP HOURS IN OP NON-KEY
06-01-26-B/C/D/E total hours for year during which all electrical bus sections are energized and boiler is operating.

C826 ELEC SEP TEST EFF NON-KEY
06-01-27-B/C/D/E tested efficiency of electrostatic or combination precipitators.

C827 ELEC SEP TEST DATE NON-KEY
06-01-28-B/C/D/E date of test of electrostatic or combination precipitators (year/month/day).

C828 HOURS PRECIP OUT NON-KEY
06-01-29-B/C/D/E number of hours for year when electrostatic or combination precipitator is not fully operational and boiler is operating.

C830 ESTM EFF PRECIP OUT NON-KEY
06-01-30-B/C/D/E estimated efficiency of electrostatic or combination precipitator when boiler is operational but precipitator is not fully operational.

C831 ESTM EFF PRECIP ANNUAL NON-KEY
06-01-31-B/C/D/E estimated efficiency of electrostatic or combination precipitator factor (if no test performed during year).

C832 DESULF SYS TEST EFF NON-KEY
06-01-33-B/C/D/E desulfurization system tested efficiency.

C833 DESULF SYS EST EFF NON-KEY
06-01-35-B/C/D/E desulfurization system estimated efficiency at annual operating factor (if not tested during year).

C834 OTHER GAS CLEANER TYPE HOURS NON-KEY
06-01-36-B/C/D/E hours in service for year of other flue gas cleaning system.

C835 SERVICE STACK NUMBER NON-KEY
09-01-02-B/C/D/E stack ID of stack that serves boiler.

C836 GENERATOR NUMBER NON-KEY
09-01-03-B/C/D/E related generator number/s.

C837 BOILER MANUFACTURER NON-KEY
Boiler manufacturer code (see Table 3).

C838	YEAR INSTALLED	NON-KEY
	09-01-05-B/C/D/E year boiler placed in service.	
C839	GENERATING CAPACITY	NON-KEY
	09-01-06-B/C/D/E associated turbo-generating capacity (megawatts).	
C840	HIGHEST STEAM CAPACITY	NON-KEY
	09-01-07-B/C/D/E maximum continuous steam capacity (1000 lbs/hr).	
C841	DESULF SYS HOURS	NON-KEY
	06-01-32-B/C/D/E hours of service for year of desulfurization system.	
C842	BOILER EFF 100 LOAD	NON-KEY
	09-01-11-B/C/D/E % boiler efficiency at 100% load.	
C843	BOILER EFF 75 LOAD	NON-KEY
	09-01-12-B/C/D/E % boiler efficiency at 75% load.	
C844	BOILER EFF 50 LOAD	NON-KEY
	09-01-13-B/C/D/E % boiler efficiency at 50% load.	
C845	TOTAL AIR FLOW	NON-KEY
	09-01-14-B/C/D/E total air flow at 100% load including excess air (std cubic ft/min)	
C846	EXCESS AIR	NON-KEY
	09-01-15-B/C/D/E % excess air used at 100% load.	
C847	WET-DRY BOTTOM	NON-KEY
	09-01-16-B/C/D/E code for wet or dry bottom (for coal only) (WET, DRY).	
C848	FLYASH REINJECTION	NON-KEY
	09-01-17-B/C/D/E flyash reinjection code (YES or NO).	
C849	TYPE OF FIRING	NON-KEY
	09-01-18-B/C/D/E type of firing code (see Table 4).	
C850	GAS CLEAN TYPE	NON-KEY
	10-01-19-B/C/D/E flue gas mechanical collector type code (see Table 5).	
C851	GAS CLEAN EFF	NON-KEY
	10-01-20-B/C/D/E flue gas mechanical collector design efficiency (%).	
C852	GAS CLEAN MASS RATE	NON-KEY
	10-01-21-B/C/D/E flue gas mechanical collector mass emission rate (lbs/hour).	
C853	GAS CLEAN YEAR	NON-KEY
	10-01-22-B/C/D/E flue gas mechanical collector year placed in service.	
C854	GAS CLEAN COST	NON-KEY
	10-01-23-B/C/D/E installed cost of flue gas mechanical collector (\$1000).	

C855 GAS CLEAN MANUFACTURER NON-KEY
10-01-24-B/C/D/E flue gas mechanical collector manufacturer code (see Table 6).

C856 ELECT PRECIP TYPE NON-KEY
10-01-25-B/C/D/E electrostatic and combination precipitators type code (E=electrostatic, C=combination).

C857 ELECT PRECIP EFF NON-KEY
10-01-26-B/C/D/E electrostatic and combination precipitators design efficiency (%).

C858 ELECT PRECIP MASS NON-KEY
10-01-27-B/C/D/E electrostatic and combination precipitators mass emission rate (lbs/hr).

C859 ELECT PRECIP YEAR NON-KEY
10-01-28-B/C/D/E electrostatic and combination precipitators year placed in service.

C860 ELECT PRECIP COST NON-KEY
10-01-29-B/C/D/E installed cost of electrostatic and combination precipitators (\$1000).

C861 ELECT PRECIP MANUFACTURER NON-KEY
10-01-30-B/C/D/E electrostatic and combination precipitators manufacturer code (see Table 6).

C862 DESIGN COAL CONSUMP NON-KEY
09-01-08-B/C/D/E design fuel consumption 100% rating-coal (tons/hour).

C863 DESIGN OIL CONSUMP NON-KEY
09-01-09-B/C/D/E design fuel consumption 100% rating-residual oil (barrels/hour).

C864 DESIGN GAS CONSUMP NON-KEY
09-01-10-B/C/D/E design fuel consumption 100% rating gas (1000 cubic feet/hr).

C865 DESULF EQUIP TYPE NON-KEY
10-01-31-B/C/D/E desulfurization system type (specified in footnote).

C866 DESULF EQUIP EFF NON-KEY
10-01-32-B/C/D/E desulfurization system design efficiency (%).

C867 DESULF EQUIP MASS NON-KEY
10-01-33-B/C/D/E desulfurization system mass emission rate (lbs/hr).

C868 DESULF EQUIP YEAR NON-KEY
10-01-34-B/C/D/E desulfurization system year placed in service.

C869 DESULF EQUIP COST NON-KEY
10-01-35-B/C/D/E desulfurization system installed cost (\$1000).

C870 DESULF EQUIP MANUFACTURER NON-KEY
10-01-36-B/C/D/E desulfurization system manufacturer (specified in footnote).

C871 OTHER EQUIP NON-KEY
10-01-37-B/C/D/E other flue gas cleaning equipment type (specified in footnote).

C872 OTHER EQUIP EFF NON-KEY
10-01-38-B/C/D/E other flue gas cleaning equipment efficiency (%).

C873 OTHER EQUIP MASS NON-KEY
10-01-39-B/C/D/E other flue gas cleaning equipment mass emissions rate (lbs/year).

C874 OTHER EQUIP YEAR NON-KEY
10-01-40-B/C/D/E other flue gas cleaning equipment year placed in service.

C875 OTHER EQUIP COST NON-KEY
10-01-41-B/C/D/E other flue gas cleaning equipment installed cost (\$1000).

C876 OTHER EQUIP MANUFACTURER NON-KEY
10-01-42-B/C/D/E other flue gas cleaning equipment manufacturer (specified in footnote).

C880 BOILER PART EMISSIONS COAL NON-KEY
05-01-21-B boiler particulate emissions from coal calculated by FPC (tons/yr).

C881 BOILER PART EMISSIONS OIL NON-KEY
05-01-21-C boiler particulate emissions from oil calculated by FPC (tons/yr).

C882 BOILER SO₂ EMISSIONS COAL NON-KEY
05-01-22-B boiler SO_x emissions from coal calculated by FPC (tons SO₂/yr).

C883 BOILER SO₂ EMISSIONS OIL NON-KEY
05-01-22-C boiler SO_x emissions from oil calculated by FPC (tons SO₂/yr).

C884 BOILER NO_x EMISSIONS COAL NON-KEY
05-01-23-B boiler NO_x emissions from coal calculated by FPC (tons NO₂/yr.)

C885 BOILER NO_x EMISSIONS OIL NON-KEY
05-01-23-C boiler NO_x emissions from oil calculated by FPC (tons NO₂/yr.)

C886 BOILER NO_x EMISSIONS GAS NON-KEY
05-01-23-D boiler NO_x emissions from gas calculated by FPC (tons NO₂/yr.)

C890 DESULF SYS TEST DATE NON-KEY
06-01-34-B/C/D/E desulfurization system date of test (year/month/day).

II. Area Source Emissions Inventory

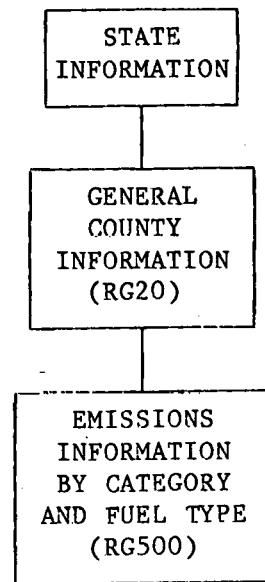
The current area source emissions inventory data consists of data obtained from NEDS. No corrections have been applied to it; no additional data from other agencies have been included.

The area source data are developed mainly by EPA, but may be supplemented by data voluntarily submitted by state agencies. EPA derives area source activity levels primarily from related information published by other Federal agencies, supplemented by special data compiled for the purpose of developing NEDS area source inventories. Published data such as fuel use by state, motor vehicle miles of travel by state and county and forest fire acres burned by state are used with related data such as employment, population, and miscellaneous geographic or economic data available on a county-by-county basis to derive annual estimates of the activity levels for each of the NEDS area source categories. The activity levels derived are adjusted to account for point source activity (such as fuel use by point sources) so that the area source data reflect only the activity levels (and resulting calculated emissions) that are not accounted for by point sources.

The area source emission estimates are calculated for each source category by the use of emission factors developed by EPA. For many categories the same emission factors are used for all counties. However, for some source categories, state- or county- specific emission factors have been developed which consider local variables that affect calculation of emissions. These more specific emission factors are used in NEDS calculations for all highway motor vehicle and fugitive dust categories and for selected other categories in a few counties where data are available to develop more applicable emission factors than the national emission factors. Hand-calculated emissions that

may be more accurate than any simple emission factor calculation may have been entered for some source categories in some specific counties.

The area source emissions inventory consists of one logical data base design. Figure 3 presents the logical data base definition for the AREAXX79 data bases. The data has been loaded into two physically distinct data bases where XX refers to the geographic area of the U.S. included in each data base.



AREAXX79 - Logical Data Base Design

Figure 3

DATA BASE DEFINITION

SYSTEM RELEASE NUMBER 2.60F

DATA BASE NAME IS AREAXX79

DEFINITION NUMBER 1

DATA BASE CYCLE 67

1* STATENEDS (INTEGER NUMBER 99)
 40* STATEFIPS (NON-KEY INTEGER NUMBER 99)
 41* STATENAME (NON-KEY NAME X(6))
 20* COUNTY (RG)
 2* CTNEDS (INTEGER NUMBER 9999 IN 20)
 5* LATCNTRD (NON-KEY DECIMAL NUMBER 999.99 IN 20)
 6* LONCNTRD (NON-KEY DECIMAL NUMBER 999.99 IN 20)
 21* CTNAME (NON-KEY NAME X(8) IN 20)
 22* CTFIPS (NON-KEY INTEGER NUMBER 999 IN 20)
 23* CTPOP (NON-KEY INTEGER NUMBER 9999 IN 20)
 24* DENSCD (NON-KEY NAME X IN 20)
 25* CTAREA (NON-KEY INTEGER NUMBER 9(6) IN 20)
 31* AQCRCODE (INTEGER NUMBER 999 IN 20)
 32* YEAR (NON-KEY INTEGER NUMBER 99 IN 20)
 43* PARTEMISEST (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 44* SO2EMISEST (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 45* NOXEMISEST (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 46* HCEMISEST (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 47* COEMISEST (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 51* ANTHRSULCONT (NON-KEY DECIMAL NUMBER 9.9 IN 20)
 52* BITUMSULCONT (NON-KEY DECIMAL NUMBER 9.9 IN 20)
 53* DISOISULCONT (NON-KEY DECIMAL NUMBER 9.9 IN 20)
 54* RESOISULCONT (NON-KEY DECIMAL NUMBER 9.9 IN 20)
 61* ANTHRASHCONT (NON-KEY DECIMAL NUMBER 99.9 IN 20)
 62* BITUMASHCONT (NON-KEY DECIMAL NUMBER 99.9 IN 20)
 71* ANTHRRESFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 72* BITUMRESFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 73* DISTLRESFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 74* RESDNRESFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 75* NATGSRESFUEL (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
 76* WOODRESFUEL (NON-KEY DECIMAL NUMBER 9(10).9999 IN 20)
 81* ANTHRCIFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 82* BITUMCIFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 83* DISOICIFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 84* RESOICIFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 85* NATGSCIFUEL (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
 86* WOODCIFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 91* ANTHRINDFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 92* BITUMINDFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 93* COKEINDFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 94* DISOIINDFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 95* RESOIINDFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 96* NATGSINDFUEL (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
 97* WOODINDFUEL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 98* PROGSINDFUEL (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
 101* RESONSTINC (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 102* INDONSTINC (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 103* CIONSTINC (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 111* RESOPENBRN (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 112* INDOPENBRN (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 113* CIOPENBRN (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 121* GASFLLTVEH (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 122* GASFLHVVEH (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
 123* GASFLOFFHW (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)

131* DIESFLHVVE (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
132* DIESFLOFFH (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
133* DIESFLRAIL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
141* MILAIRCRFT (NON-KEY INTEGER NUMBER 9(8) IN 20)
142* CIVAIRCRFT (NON-KEY INTEGER NUMBER 9(8) IN 20)
143* CMLAIRCRFT (NON-KEY INTEGER NUMBER 9(8) IN 20)
151* ANTHRVESFL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
152* DIEOIVESFL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
153* RESOIVESFL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
154* GASLNVESFL (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
161* EVAPSOLPURCH (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
171* GASMRKTD (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
181* LIMACCMILES (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
182* RURLRDMILES (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
183* SUBRDMILES (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
184* UBRNRDMILES (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
191* DIRTRDTRAV (NON-KEY DECIMAL NUMBER 9(10).999 IN 20)
192* DIRTAIRLTO (NON-KEY INTEGER NUMBER 9(5) IN 20)
201* CONSTRUCAREA (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
202* WINDEROSAREA (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
203* LANDTILLAREA (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
204* FORFIREAREA (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
205* FORFIREQUAN (NON-KEY DECIMAL NUMBER 9999.999 IN 20)
206* MANGBRNAREA (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
207* MANGBRNQUAN (NON-KEY DECIMAL NUMBER 9999.999 IN 20)
208* AGRIBRNAREA (NON-KEY DECIMAL NUMBER 9(5).999 IN 20)
209* AGRIBRNQUAN (NON-KEY DECIMAL NUMBER 9999.999 IN 20)
210* FROSTCONTHTRS (NON-KEY INTEGER NUMBER 9999 IN 20)
211* FROSTCONTDAYS (NON-KEY INTEGER NUMBER 999 IN 20)
212* STRUCTFIRES (NON-KEY INTEGER NUMBER 9(5) IN 20)
213* NUMAUTOS (NON-KEY INTEGER NUMBER 9(5) IN 20)
214* NUMTRKLT (NON-KEY INTEGER NUMBER 9(5) IN 20)
215* NUMTRKHVY (NON-KEY INTEGER NUMBER 9(5) IN 20)
301* COMMENT (NON-KEY NAME X(10) IN 20)
500* CATEGORY (RG IN 20)
501* CATFUELNAME (NAME X(10) IN 500)
502* CATEGORYNAME (NAME X(10) IN 500)
503* CATTAP (NON-KEY DECIMAL NUMBER 9(10).999 IN 500)
504* CATSO2 (NON-KEY DECIMAL NUMBER 9(10).999 IN 500)
505* CATNOX (NON-KEY DECIMAL NUMBER 9(10).999 IN 500)
506* CATHC (NON-KEY DECIMAL NUMBER 9(10).999 IN 500)
507* CATCO (NON-KEY DECIMAL NUMBER 9(10).999 IN 500)
508* CATTSPFLG (NON-KEY INTEGER NUMBER 9 IN 500)
509* CATSO2FLG (NON-KEY INTEGER NUMBER 9 IN 500)
510* CATNOXFLG (NON-KEY INTEGER NUMBER 9 IN 500)
511* CATHCFLG (NON-KEY INTEGER NUMBER 9 IN 500)
512* CATCOFLG (NON-KEY INTEGER NUMBER 9 IN 500)
513* CATYR (NON-KEY INTEGER NUMBER 99 IN 500)
514* CATCOMMENT (NON-KEY NAME X(10) IN 500)

AREAXX79

LIST OF DATA BASE COMPONENT NUMBERS (IN ASCENDING ORDER)
COMPONENT NAMES, DESCRIPTIONS, KEY OR NOT

(FOR A DETAILED DESCRIPTION OF THE NEDS DATA PLEASE REFER TO
"AEROS Manual Series Volumes I-V," EPA Publications)

C1	STATENEDS	KEY
	SAROAD state code. (see Table 1).	
C2	CTNEDS	KEY
	SAROAD county code. (Reference: SAROAD Station Coding Manual for Aerometric Sampling Networks, publication number APTD-0907, EPA).	
C5	LATCNTRD	NON-KEY
	Latitude of the county centroid. (decimal equivalent of degrees, minutes).	
C6	LONCNTRD	NON-KEY
	Longitude of the county centroid. (decimal equivalent of degrees, minutes).	
C20	COUNTY	KEY
	RG containing particular area source information.	
C21	CTNAME	NON-KEY
	County name.	
C22	CTFIPS	NON-KEY
	FIPS county code. (Reference: Counties μ County Equivalents of the States of the United States, NTIS publication number NBS-FIPS-PUB-6-2).	
C23	CTPOP	NON-KEY
	County population (1000 persons).	
C24	DENSCD	NON-KEY
	Population distribution code. (see Table 8).	
C25	CTAREA	NON-KEY
	Area of county (square kilometers.)	
C31	AQCRCODE	KEY
	Air quality control region (AQCR) where county is located. (Reference: Federal Air Quality Control Regions, publication number AP-102, EPA ⁽¹⁾).	
C32	YEAR	NON-KEY
	Year of data.	

(1)EPA = Environmental Protection Agency.

C40	STATEFIPS	NON-KEY
	FIPS state code. (see Table 1).	
C41	STATENAME	NON-KEY
	State name.	
C43	LATPOPCNTRD	NON-KEY
	Latitude of population centroid of county (decimal equivalent of degrees, minutes) (1).	
C44	LONPOPCNTRD	NON-KEY
	Longitude of population centroid of county (decimal equivalent of degrees, minutes)(1).	
C45	NOXEMISEST	NON-KEY
	Dummy component.	
C46	HCEMISEST	NON-KEY
	Dummy component.	
C47	COEMISEST	NON-KEY
	Dummy component.	
C51	ANTHRSULCONT	NON-KEY
	% sulfur content in anthracite coal.	
C52	BITUMSULCONT	NON-KEY
	% sulfur content in bituminous coal.	
C53	DISOISULCONT	NON-KEY
	% sulfur content in diesel oil.	
C54	RESOISULCONT	NON-KEY
	% sulfur content in residual oil.	
C61	ANTHRASHCONT	NON-KEY
	% ash content of anthracite coal.	
C62	BITUMASHCONT	NON-KEY
	% ash content of bituminous coal.	
C71	ANTHRRESFUEL	NON-KEY
	Anthracite coal used for residential fuel (tonnes*/year).	
C72	BITUMRESFUEL	NON-KEY
	Bituminous coal used for residential fuel (tonnes/year).	
C73	DISTLRESFUEL	NON-KEY
	Distillate oil used for residential fuel (10000 liters/year).	
C74	RESDNRESFUEL	NON-KEY
	Residual oil used for residential fuel (10000 liters/year).	

*tonnes=metric tons (10^3 kgs).

(1) = currently not implemented in AREAXX79.

C75 NATGSRSEFUEL NON-KEY
Natural gas used for residential fuel (10^6 cu. meters/year).

C76 WOODRESFUEL NON-KEY
Wood used for residential fuel (tonnes/year).

C81 ANTHRCCIFUEL NON-KEY
Anthracite coal used for commercial/institution fuel (tonnes/year).

C82 BITUMCIFUEL NON-KEY
Bituminous coal used for commercial/institution fuel (tonnes/year).

C83 DISOICIFUEL NON-KEY
Distillate oil used for commercial/institution fuel (10000 liters/year).

C84 RESOICIFUEL NON-KEY
Residual oil used for commercial/institution fuel (10000 liters/year).

C85 NATGSCIFUEL NON-KEY
Natural gas used for commercial/institution fuel (10^7 cu. meters/year).

C86 WOODCIFUEL NON-KEY
Wood used for commercial/institution fuel (tonnes/year).

C91 ANTHRINDFUEL NON-KEY
Anthracite coal used for industrial fuel (tonnes/year).

C92 BITUMINDFUEL NON-KEY
Bituminous coal used for industrial fuel (tonnes/year).

C93 COKEINDFUEL NON-KEY
Coke used for industrial fuel (tonnes/year).

C94 DISOIINFUEL NON-KEY
Distillate oil used for industrial fuel (10000 liters/year).

C95 RESOIINDFUEL NON-KEY
Residual oil used for industrial fuel (10000 liters/year).

C96 NATGSINDFUEL NON-KEY
Natural gas used for industrial fuel (10^6 cu. meters/year).

C97 WOODINDFUEL NON-KEY
Wood used for industrial fuel (1000 kg/year).

C98 PROGSINDFUEL NON-KEY
Process gas used for industrial fuel (10^6 cu. meters/year).

C101 RESONSTINC NON-KEY
Residential on site incineration (tonnes/year).

C102 INDONSTINC NON-KEY
Industrial on site incineration (tonnes/year).

C103	CIONSTINC	NON-KEY
	Commercial/institution on site incineration (tonnes/year).	
C111	RESOPENBRN	NON-KEY
	Residential open burning (tonnes/year).	
C112	INDOPENBRN	NON-KEY
	Industrial open burning (tonnes/year).	
C113	CIOOPENBRN	NON-KEY
	Commercial/institution open burning (tonnes/year).	
C121	GASFLLTVEH	NON-KEY
	Gasoline used for light vehicles (10000 liters/year).	
C122	GASFLHVVEH	NON-KEY
	Gasoline used for heavy vehicles (10000 liters/year).	
C123	GASFLOFFHW	NON-KEY
	Gasoline for off highway use (10000 liters/year).	
C131	DIESFLHVVE	NON-KEY
	Diesel fuel used for heavy vehicles (10000 liters/year).	
C132	DIESFLOFFH	NON-KEY
	Diesel fuel for off highway use (10000 liters/year).	
C133	DIESFLRAIL	NON-KEY
	Diesel fuel used for railway locomotives (10000 liters/year).	
C141	MILAIRCRAFT	NON-KEY
	Landing-takeoff cycles of military aircraft (per year).	
C142	CIVAIRCRFT	NON-KEY
	Landing-takeoff cycles of civilian aircraft (per year).	
C143	CMLAIRCRFT	NON-KEY
	Landing-takeoff cycles of commercial aircraft (per year).	
C151	ANTHRVESFL	NON-KEY
	Anthracite coal fuel used by water vessels (tonnes/year).	
C152	DIEOIVESFL	NON-KEY
	Diesel fuel used by water vessels (10000 liters/year).	
C153	RESOIVESFL	NON-KEY
	Residual oil used by water vessels (10000 liters/year).	
C154	GASLNVESFUEL	NON-KEY
	Gasoline used by water vessels (10000 liters/year).	
C161	EVAPSOLPURCH	NON-KEY
	Solvent purchased evaporated fuel (1000 kg/year).	

C171 GASMRKTD NON-KEY
Gasoline marketed (10000 liters/year).

C181 LIMACCMILES NON-KEY
Measured vehicle kilometers on limited access roads (10000 km/year).

C182 RURLRDMILES NON-KEY
Measured vehicle kilometers on rural roads (10000 km/year).

C183 SUBRDMILES NON-KEY
Measured vehicle kilometers on suburban roads (10000 km/year).

C184 URBNDMILES NON-KEY
Measured vehicle kilometers on urban roads (10000 km/year).

C191 DIRTRDTRAV NON-KEY
Dirt road travel (10000 km/year).

C192 DIRTAIRLTO NON-KEY
Dirt airfield landing-takeoff cycles (per year).

C201 CONSTRUCAREA NON-KEY
Construction (1000 acres/year under construction).

C202 WINDEROSAREA NON-KEY
Miscellaneous wind erosion (1000 acres/year).

C203 LANDTILLAREA NON-KEY
Landtilling (1000 acres/yr).

C204 FORFIREAREA NON-KEY
Forest fires area (1000 acres burned/year).

C205 FORFIREQUAN NON-KEY
Materials burned by forest fires (1000 kg material/acre).

C206 MANGBRNAREA NON-KEY
Managed burning area (1000 acres burned/year).

C207 MANGBRNQUAN NON-KEY
Material burned by managed burning (tonnes material/acre).

C208 AGRIBRNAREA NON-KEY
Agricultural burning area (1000 acres/year).

C209 AGRIBRNQUAN NON-KEY
Material burned by agricultural burning (tonnes/year).

C210 FROSTCONTHTRS NON-KEY
Number of operating frost control orchard heaters.

C211 FROSTCONTDAYS NON-KEY
Frost control days (days/year heaters were fired).

C212	STRUCTFIRES	NON-KEY
	Structural fires (number/year).	
C213	NUMAUTOS	NON-KEY
	Automobiles (number/year).	
C214	NUMTRKLT	NON-KEY
	Light trucks - <6000 lbs (number/year).	
C215	NUMTRKHVY	NON-KEY
	Heavy trucks - 6000-10000 lbs (number/year).	
C301	COMMENT	NON-KEY
	Area sources comment.	
C500	CATEGORY	NON-KEY
	RG with emissions information for each activity and fuel.	
C501	CATFUELNAME	KEY
	Name of fuel.	
C502	CATEGORYNAME	KEY
	Name of activity.	
C503	CATTSP	NON-KEY
	Total emissions of particulates for given activity and fuel (tonnes/year).	
C504	CATS02	NON-KEY
	Total emissions of sulfur oxides for given activity and fuel (tonnes of SO ₂ /year).	
C505	CATNOX	NON-KEY
	Total emissions of nitrogen oxides for given activity and fuel (tonnes of NO ₂ /year).	
C506	CATHC	NON-KEY
	Total emissions of hydrocarbons for given activity and fuel (tonnes of CH ₄ /year).	
C507	CATCO	NON-KEY
	Total emissions of carbon monoxide for given activity and fuel (tonnes/year).	
C508	CATTPFLG	NON-KEY
	Total emissions of particulates flag; 1= hand calculated; 2= computer calculated.	
C509	CATSO2FLG	NON-KEY
	Total emissions of sulfur oxides flag; 1= hand calculated, 2= computer calculated.	

C510	CATNOXFLG	NON-KEY
Total emissions of nitrogen oxides flag; 1= hand calculated, 2= computer calculated.		
C511	CATHCFLG	NON-KEY
Total emissions of hydrocarbons flag; 1= hand calculated, 2= computer calculated.		
C512	CATCOFLG	NON-KEY
Total emissions of carbon monoxide flag; 1= hand calculated, 2= computer calculated.		
C513	CATYR	NON-KEY
Year of record.		
C514	CATCOMMENT	NON-KEY
Comments pertaining to activity and fuel.		

AVAILABLE DATA BASES

Currently available data bases are as follows:

1. POINTNE79

Point source emissions data base covering the following states:

Connecticut	New York
Delaware	Pennsylvania
Maine	Rhode Island
Maryland	Vermont
Massachusetts	Virginia
New Hampshire	Washington, D.C.
New Jersey	

2. POINTMW79

Point source emissions data base covering the following states:

Illinois	Ohio
Indiana	Tennessee
Kentucky	West Virginia
Michigan	Wisconsin

3. POINTSE79

Point source emissions data base covering the following states:

Alabama	North Carolina
Florida	Puerto Rico
Georgia	South Carolina
Mississippi	

4. POINTPS79

Point source emissions data base covering the following states:

Arkansas	Nebraska
Iowa	North Dakota
Kansas	Oklahoma
Louisiana	South Dakota
Minnesota	Texas
Missouri	

5. POINTWS79

Point source emissions data bases covering the following states:

Arizona	New Mexico
California	Oregon
Colorado	Utah
Idaho	Washington
Montana	
Nevada	Wyoming

6. POINTCA79

Point source emissions data base covering all the Canadian provinces.

Basic data for the POINTXX79 data bases were obtained from NEDS and from Environment Canada in 1979-1980. For the U.S. data bases, locally developed corrections were applied, as well as corrections developed by GCA Corporation for the SURE emissions inventory project.(1)

7. FPC69, FPC70, FPC71, FPC72, FPC73, FPC74, FPC75, FPC76

FPC FORM67 air quality control data for years 1969 to 1976. Data obtained from FPC and its successor the Federal Energy Regulatory Commission of the Department of Energy.

8. AREAES79

Area source emissions data base covering the following states:

Alabama	Maryland	Pennsylvania
Connecticut	Massachusetts	Rhode Island
Delaware	Michigan	South Carolina
Florida	Mississippi	Tennessee
Georgia	New Hampshire	Vermont
Illinois	New Jersey	Virginia
Indiana	New York	Washington, D.C.
Kentucky	North Carolina	West Virginia
Maine	Ohio	Wisconsin

(1) GCA/Technology Division, Bedford, Mass. - contractor for the Sulfate Regional Experiment (SURE) emissions inventory project of the Electric Power Research Institute (EPRI).

9. AREAWS79

Area source emissions data base covering the following states:

Arizona	Louisiana	North Dakota
Arkansas	Minnesota	Oklahoma
California	Missouri	Oregon
Colorado	Montana	South Dakota
Idaho	Nebraska	Texas
Iowa	Nevada	Utah
Kansas	New Mexico	Washington
		Wyoming

Data for the AREAXX79 data bases was obtained from NEDS in 1980. No corrections have been applied.

Use of Computerized Source Emissions Inventory

For a detailed description of SYSTEM 2000 (S2K) capabilities the user is directed to the SYSTEM 2000 Reference Manual. The following sections assume user knowledge of the Natural Language and Report Writer features of this DBMS.

For interactive access to emissions inventory data bases a procedure file has been established at BNL's CDC 6600. To activate the interactive procedure:

1. Establish contact with the CDC 6600 computer at Brookhaven National Laboratory, LOGIN and enter user name, password, and problem number.
2. Enter: ETL,400.
3. Enter: ATTACH,MP,MAP3SDATABANK, ID=CMB.
4. Enter: BEGIN,MAP3S,MP.

The user will be prompted for user name and data base name. If the data base is on line the user will be taken directly into S2K and given access to the data base. If the data base is not on line the user is so notified and a batch job is created to place the data base on line. User should wait about 1 hour for batch job to execute before trying to access the data base again.

The following examples demonstrate the use of this procedure (User entries are underlined).

A) Data base not on line

COMMAND-BEGIN,MAP3S,MP.

WELCOME TO THE MAP3S DATA BANK

PLEASE INPUT YOUR LAST NAME (10 CHARACTERS OR LESS). BENKOVITZ

THANK YOU.

PLEASE INPUT NAME OF DATA BASE YOU WISH TO SCAN.

TERMINATE LIST BY TYPING END. FPC76

DATA BASE FPC76 IS BEING LOADED. PLEASE TRY ACCESS LATER.

THANK YOU.

PLEASE INPUT NAME OF DATA BASE YOU WISH TO SCAN.

TERMINATE LIST BY TYPING END. END

COMMAND- (User is back to INTERCOM)

B) Data base is on line

COMMAND-BEGIN,MAP3S,MP.

WELCOME TO THE MAP3S DATA BANK

PLEASE INPUT YOUR LAST NAME (10 CHARACTERS OR LESS). BENKOVITZ

THANK YOU.

PLEASE INPUT NAME OF DATA BASE YOU WISH TO SCAN. POINTMW79

EXIT

.029 CP SECONDS EXECUTION TIME } → IGNORE.

PF CYCLE NO.=

-556-ASSIGNED POINTMW79 2 249 12/02/80 09.43.44.

--- > (User is in S2K ready to use the data base.)

EXIT%

COMMAND- (User is back to INTERCOM)

To activate the batch procedure the following control cards must be included in the batch stream:

ATTACH(MP,MAP3SDATABANK, ID=CMB)

BEGIN(MAP3SB,MP,DBN,LFN)

where: DBN is name of data base desired. (no default)

LFN is logical file name of command file for S2K. (default is INPUT)

The procedure will load the data base from tape if needed. Therefore, an NT1 parameter should be included in the job card.

Table 1
NEDS/FIPS U.S. STATE CODES

NEDS CODE	FIPS CODE	STATE NAME	NEDS CODE	FIPS CODE	STATE NAME
01	01	ALABAMA	28	31	NEBRASKA
03	04	ARIZONA	29	32	NEVADA
04	05	ARKANSAS	30	33	NEW HAMPSHIRE
05	06	CALIFORNIA	31	34	NEW JERSEY
06	08	COLORADO	32	35	NEW MEXICO
07	09	CONNECTICUT	33	36	NEW YORK
08	10	DELAWARE	34	37	NORTH CAROLINA
09	11	WASH DC	35	38	NORTH DAKOTA
10	12	FLORIDA	36	39	OHIO
11	13	GEORGIA	37	40	OKLAHOMA
12	15	HAWAII	38	41	OREGON
13	16	IDAHO	39	42	PENNSYLVANIA
14	17	ILLINOIS	40	43	PUERTO RICO
15	18	INDIANA	41	44	RHODE ISLAND
16	19	IOWA	42	45	SOUTH CAROLINA
17	20	KANSAS	43	46	SOUTH DAKOTA
18	21	KENTUCKY	44	47	TENNESSEE
19	22	LOUISIANA	45	48	TEXAS
20	23	MAINE	46	49	UTAH
21	24	MARYLAND	47	50	VERMONT
22	25	MASSACHUSETTS	48	51	VIRGINIA
23	26	MICHIGAN	49	53	WASHINGTON
24	27	MINNESOTA	50	54	WEST VIRGINIA
25	28	MISSISSIPPI	51	55	WISCONSIN
26	29	MISSOURI	52	56	WYOMING

Table 1A
ENVIRONMENT CANADA (EC)/DEFENSE INTELLIGENCE AGENCY (DIA)
CODES FOR CANADIAN PROVINCES

EC CODE	DIA CODE	PROVINCE NAME	EC CODE	DIA CODE	PROVINCE NAME
10	4	NEWFOUNDLAND	46	3	MANITOBA
11	9	PRINCE EDWARD ISLAND	47	11	SASKATCHEWAN
12	7	NOVA SCOTIA	48	1	ALBERTA
13	5	NEW BRUNSWICK	59	2	BRITISH COLUMBIA
24	10	QUEBEC	60	12	YUKON TERRITORY
35	8	ONTARIO	61	6	NORTHWEST TERRITORIES

Table 2
Control Equipment Codes

Identification Number	Control Device/Method
000	No Equipment
001	Wet Scrubber - High Efficiency
002	Wet Scrubber - Medium Efficiency
003	Wet Scrubber - Low Efficiency
004	Gravity Collector - High Efficiency
005	Gravity Collector - Medium Efficiency
006	Gravity Collector - Low Efficiency
007	Centrifugal Collector - High Efficiency
008	Centrifugal Collector - Medium Efficiency
009	Centrifugal Collector - Low Efficiency
010	Electrostatic Precipitator - High Efficiency
011	Electrostatic Precipitator - Medium Efficiency
012	Electrostatic Precipitator - Low Efficiency
013	Gas Scrubber (general, not classified)
014	Mist Eliminator - High Velocity, i.e., $v > 250$ ft/min
015	Mist Eliminator - Low Velocity, i.e., $v < 150$ ft/min
016	Fabric Filter - High Temperature, i.e., $T > 250^{\circ}\text{F}$
017	Fabric Filter - Medium Temperature, i.e., $180^{\circ}\text{F} < T < 250^{\circ}\text{F}$
018	Fabric Filter - Low Temperature, i.e., $T < 180^{\circ}\text{F}$
019	Catalytic Afterburner
020	Catalytic Afterburner with Heat Exchanger
021	Direct Flame Afterburner
022	Direct Flame Afterburner with Heat Exchanger
023	Flaring
039	Catalytic Oxidation - Flue Gas Desulfurization
040	Alkalized Alumina
041	Dry Limestone Injection
042	Wet Limestone Injection

Table 2 (continued)

Identification Number	Control Device/Method
043	Sulfuric Acid Plant - Contact Process
044	Sulfuric Acid Plant - Double Contact Process
045	Sulfur Plant
046	Process Change
047	Vapor Recovery System (including condensers, hooding, and other enclosures)
048	Activated Carbon Adsorption
049	Liquid Filtration System
050	Packed-Gas Absorption Column
051	Tray-Type Gas Absorption Column
052	Spray Tower
053	Venturi Scrubber
054	Process Enclosed
059	Metal Fabric Filter Screen (Cotton Gins)
060	Process Gas Recovery
061	Dust Suppression by Water Sprays
062	Dust Suppression by Chemical Stabilizers or Wetting Agents
063	Gravel Bed Filter
064	Annular Ring Filter
065	Catalytic Reduction
066	Molecular Sieve
071	Fluid Bed Dry Scrubber

For the particulate control devices (wet scrubber, gravity collectors, centrifugal collectors, and electrostatic precipitators, the efficiency ranges correspond to the following percentages:

High: 95 - 99 +
 Medium: 80 - 95
 Low: <80

Table 3

FPC FORM 67 Boiler Manufacturer Codes

B+W	=	The Babcock + Wilcox Company
CE	=	Combustion Engineering
ERIG	=	Erie City Iron Works
FW	=	Foster Wheeler Corporation
RILY	=	Riley Stoker Corporation
VOGT	=	Henry Vogt Machine Company, Inc.
OTHE	=	Other (Specified in footnote)

Table 4

FPC FORM 67 Boiler Type of Firing Code

PCFR	=	Pulverized Coal: Front Firing
PCOP	=	Pulverized Coal: Opposed Firing
PCTA	=	Pulverized Coal: Tangential Firing
CYCL	=	Cyclone
SPRE	=	Spreader Stoker
OSTO	=	Other Stoker
FLUI	=	Fluidized Bed
RFRO	=	Residual Oil: Front Firing
ROPP	=	Residual Oil: Opposed Firing
RTAN	=	Residual Oil: Tangential Firing
GFRO	=	Gas: Front Firing
GOPP	=	Gas: Opposed Firing
GTAN	=	Gas: Tangential Firing
OTHE	=	Other (Specified in footnote)

Table 5

FPC FORM 67 Mechanical Collectors Type Codes

GRAV	=	Gravitational or baffled chamber
SCTA	=	Single cyclone-Conventional reverse flow, tangential inlet
SCAX	=	Single cyclone-Conventional reverse flow, axial inlet
MCTA	=	Multiple cyclones-Conventional reverse flow, tangential inlet
MCAX	=	Multiple cyclones-Conventional reverse flow, axial inlet
CYCL	=	Straight-through-flow cyclones
IMPE	=	Impeller Collector
VENT	=	Wet Collector: Venturi
WETC	=	Wet Collector: Other (Specified in footnote)
BAGH	=	Baghouse (Fabric Collector)
OTHE	=	Other (Specified in footnote)

Table 6

FPC FORM 67 Flue Gas Cleaning Equipment Manufacturers Codes

AAFC	=	American Air Filter Co., Inc.
AMST	=	American Standard, Inc.
BELC	=	Belco Pollution Control Corp.
BUEL	=	Beull Engineering Co., Inc.
DUCO	=	The Ducon Co., Inc.
FIKL	=	Fischer-Klosterman, Inc.
FULL	=	Fuller Co., Draco Products
KIRK	=	Kirk + Blum Manufacturing Co.
KOPP	=	Koppers Co., Inc.
PPCI	=	Precipitair Pollution Control, Inc.
PAOA	=	Precipitation Associates of America, Inc.
PLVR	=	Pulverizing Machinery Division
COTT	=	Research-Cottrell, Inc.
SVRS	=	Seversky Electronatom Corp.
UOP	=	UOP Air Correction Division
TORI	=	The Torit Corp.
WEST	=	Western Precipitation Division
WHEE	=	Wheelabrator Corp.
ZURN	=	Zurn Industries, Inc.
OTHE	=	Other (Specified in footnote)

Table 7
Boiler Operation Codes

- 1 = Continuous nominal full load
- 2 = Less than full but over 75% load
- 3 = 50-75% load
- 4 = Under 50% load
- 5 = No-load hot standby
- 6 = No-load cold standby
- 7 = Other

Table 8
Area Source Emissions Inventory

Population Distribution Code	Population Breakdown
0	< 10% urban
1	10 - 20% urban
2	20 - 30% urban
3	30 - 40% urban
4	40 - 50% urban
5	50 - 60% urban
6	60 - 70% urban
7	70 - 80% urban
8	80 - 90% urban
9	> 90% urban