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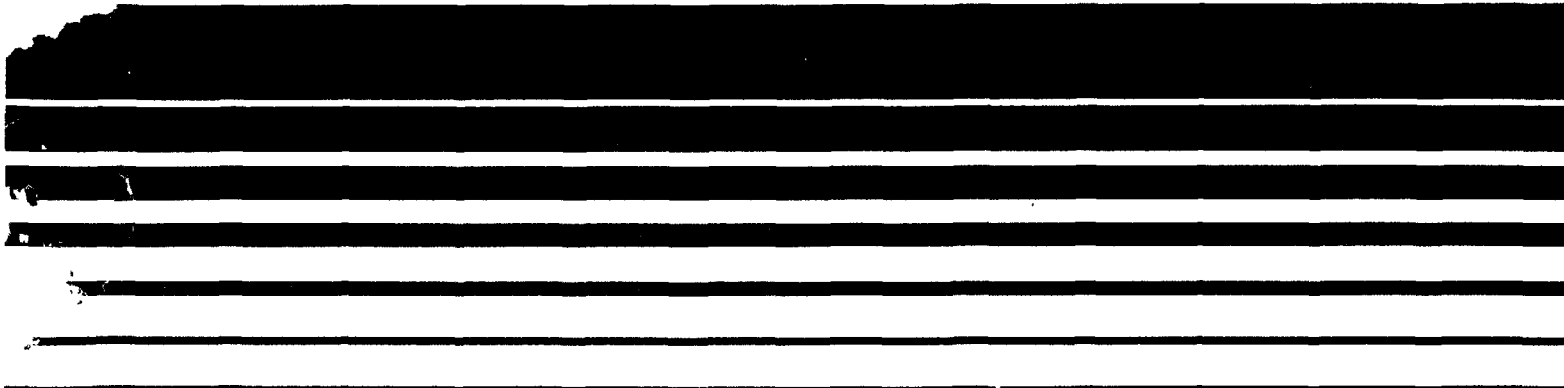
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Air



Emissions Inventory System/Point Source (EIS/PS) Test Run Series Documentation

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Emissions Inventory System/ Point Source (EIS/PS) Test Run Series Documentation

by

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Office of Air, Noise, and Radiation
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

October 1980

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INTRODUCTION

The purpose of this manual is to document the EIS/PS test run series released by the Environmental Protection Agency, as part of the EIS/PS installation package. This document replaces Air Pollution Training Institute Manual 475, Comprehensive Data Handling System, Volume 1, Emission Inventory Subsystem/Permits and Registration (EIS/P&R).

The test run series is divided into two major areas: basic test runs and ad hoc test runs. The basic test runs exercise each program in EIS/PS at least once and provide the user with a means of determining whether or not the installation of EIS/PS has been successful.

The ad hoc test runs further exercise the capabilities of the EIS/PS programs. The ad hoc test runs also provide the user with examples of how various combinations of EIS/PS programs may be used to generate certain reports or to accomplish special tasks. Any programs added to the original EIS/PS system are exercised by ad hoc test runs.

The EIS/PS User's Guide should be used as a reference in conjunction with this manual. Appendix A of this manual provides a cross-reference of test, procedures, and programs.

EIS/PS Test 1

Create and Print the Official NADB Emission Factor File and Description File

In this test run, the official NADB EIS/PS emission factor file and description file are created from current NEDS emission factor transactions using the cataloged procedure EPEME20 which executes PSRNEEF (EP0010), the NEDS emission factor file transaction sort program; PCVNEEF (EP0020), the NEDS to EIS/PS emission factor file transaction conversion program; PSREFTR (EP0030), the emission factor file transaction sort program; and PEMEFAC (EP0040), the emission factor file edit-maintenance program. A detailed report of the emission factor file and the description file is printed using the cataloged procedure EPRPE10 which executes PRPEFAC (EP0230), the emission factor file detailed report program.

PSRNEEF (EP0010) sorts NEDS emission factor file transactions into the sequence required by PCVNEEF (EP0020). Figure PST1-1 shows the NEDS emission factor file transaction formats. The fields of each transaction are sorted in the following order:

<u>Columns</u>	<u>Description</u>	<u>Sort Order</u>
1 - 8	SCC	Ascending
80	Card Type	Ascending
10	Action Code	*

The first transaction in the sorted file is a header record generated by PSRNEEF (EP0010). All NEDS emission factor file transactions must be sorted by PSRNEEF (EP0010) before they can be used as input to PCVNEEF (EP0020).

PCVNEEF (EP0020) converts NEDS emission factor file transactions into EIS/PS emission factor file transactions. There are three types of NEDS emission factor file transactions: type-1, type-2, and type-3. Refer to Figure PST1-1 for the NEDS emission factor file transaction formats. These NEDS emission factor transactions are converted into EIS/PS emission factor file transactions, of which there are four types. Types 1, 2, and 3 are used

* Sort sequence is D (delete), A (add), C (change).

to create or update records in the EIS/PS description file and type-4 transactions are used to create or update records in the EIS/PS emission factor file. Figures PST1-2 and PST1-3 show the EIS/PS emission factor file transaction formats and the transaction load sheet, respectively.

In the input NEDS emission factor transaction file there can be a maximum of three NEDS transactions, one of each type, associated with a given SCC number. Each transaction associated with a given SCC number must contain the same action code. Data from a NEDS type-1 transaction is transferred to data fields of EIS/PS type-1 and type-2 transactions. Data from a NEDS type-2 transaction is transferred to data fields of EIS/PS type-2 and type-3 transactions. A NEDS type-3 transaction is used to create EIS/PS type-4 transactions for the five criteria pollutants (TSP, SO₂, NO_x, HC, and CO). Also, if the NEDS type-3 transaction is an add transaction, an EIS/PS type-4 transaction containing a pollutant ID of zero is created for the purpose of entering ash and sulfur contents for the SCC.

The creation of an emission factor file record requires a NEDS type-3 transaction. If NEDS type-1 and/or type-2 transactions are not present for a SCC number, the corresponding EIS/PS transaction types 1, 2, and 3 will be generated. The data fields for these generated transactions will contain messages indicating that they were created by PCVNEEF (EP0020). Any combination of the three types of NEDS transactions is valid for change transactions. Corresponding EIS/PS transactions are generated from the NEDS change transactions, provided that all the data fields of the NEDS transactions are not blank. Only the NEDS type-1 transaction is valid as a delete transaction.

The option card contains a list option and an option date. When LIST is coded in columns 1 through 4 of the option card, a listing of the input NEDS transactions and the associated EIS/PS transactions will be printed. Leaving this field blank will cause the transaction listing to be suppressed. An option date must appear in columns 21 through 25 of the option card in the Julian form YYDDD, where YY is the year and DDD is the day of the year. The option date is inserted in the output EIS/PS transactions and should therefore be the current date.

PSREFTR (EP0030) sorts EIS/PS emission factor transactions (see Figure PST1-2) into the sequence required by the emission factor file edit-maintenance program. The fields of each transaction are sorted in the following order:

<u>Columns</u>	<u>Description</u>	<u>Sort Order</u>
3 - 10	SCC	Ascending
11	Emission Factor Origin	Ascending
12	Emission Factor Source Type	Ascending
13 - 17	Pollutant ID	Ascending
1	Card Type	Ascending
2	Action Code	*
18 - 22	Date	Ascending

The first transaction in the sorted file is a header record generated by PSREFTR (EP0030). All emission factor file transactions must be sorted by PSREFTR (EP0030) before they can be used to create or update the emission factor and description files.

PEMEFAC (EP0040) edits EIS/PS emission factor file transactions and updates the EIS/PS emission factor and description files using those transactions that pass the edit criteria. See Figure PST1-2 for the four EIS/PS emission factor file transaction formats and Figure PST1-3 for the load sheet.

Transaction types 1, 2, and 3 are used for updating the description file, and type-4 transactions are used for updating the emission factor file. Therefore, the following transactions are required to add a new SCC to the files: one type-1 transaction, one type-2 transaction, one type-3 transaction, and one or more type-4 transactions. A maximum of 17 type-4 (pollutant) transactions is allowed by the program for each SCC/ORIGIN/SOURCE combination, the first of which must contain a zero pollutant ID. The type-4 transaction containing the zero pollutant ID allows the user to enter the ash and sulfur contents for the specified SCC.

* Sort sequence is D (delete), A (add), C (change).

When these files are updated, the header record control date for each file is updated using the date specified by the user on the option card. These header records also contain the date of the previous update run as well as a generation number which begins at 1 and is incremented by 1 during each update run. Therefore, the user can determine that the most recent files are being used.

The option card must contain a control date supplied by the user. This date is coded in columns 1 through 5 and must be in the Julian form YYDDD. The option card control date must be greater than the control dates in both file header records. The warning-suppression option controls the printing of warning messages. Coding FLAGW in columns 7 through 11 will cause any warning messages that are generated to be printed in the diagnostic report. To suppress the listing of these warning messages, the field must be left blank. Also, if the field is coded incorrectly, the warning messages will be suppressed. The list option allows the user to obtain listings of the transactions, the input emission factor and description files, and the output emission factor and description files. Coding LIST in columns 13 through 16 will cause all five listings to be printed; leaving this field blank will cause all five listings to be suppressed. Also, if the field is coded incorrectly, the listings will be suppressed.

PRPEFAC (EP0230) produces a detailed report of the EIS/PS emission factor file and description file. The report is printed in ascending order by SCC number. The description record for each SCC is printed first, followed by all of the emission factor file records which contain a matching SCC number. Each SCC group is further subdivided by ORIGIN/SOURCE combinations as they appear in the emission factor file.

The run stream for this test run contains the JCL needed to create the official NADB EIS/PS emission factor and description files and produce a detailed report of these files. This run stream is shown in Figure PST1-4. It does not show all the input NEDS emission factor file transactions in the run stream, but does show the necessary JCL. The sample output produced by this test run is shown in Figure PST1-5.

First, the run stream executes the cataloged procedure EPEME20. Substitutable parameters are used to name EPEMFAC as the new emission factor file and EPDESCR as the new description file. The user must supply the DD (data definition) information for the input NEDS emission factor file transactions in the SORT1 step and the option card files in the CONVERT and UPDATE steps. Since this test run creates the initial EIS/PS emission factor and description files, there is obviously not an input emission factor file or description file to be accessed. This is why the old emission factor file EPSOLEF, and the old description file, EPSOLDS, must be dummy files in the UPDATE step. The option specified in the CONVERT step of this test run is 80032, and the options specified in the UPDATE step are 80032 and FLAGW.

Next, the cataloged procedure EPRPE10 is executed to produce a detailed report of the emission factor and description files. Substitutable parameters are used to specify EPEMFAC as the input emission factor file and EPDESCR as the input description file.

Header Record

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 8	8	Numeric	Zeroes
9 - 80	72		Not Used

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Figure PST1-1. NEDS Emission Factor File Transaction Formats

Card 1

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 8	8	Numeric	SCC Number
9	1		Not Used
10	1	Alphabetic	Action Code
11 - 27	17	Alphanumeric	SCC Description 1
28 - 44	17	Alphanumeric	SCC Description 2
45 - 61	17	Alphanumeric	SCC Description 3
62 - 78	17	Alphanumeric	SCC Description 4
79	1		Not Used
80	1	Numeric	Card Type

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Figure PST1-1 - continued. NEDS Emission Factor File Transaction Formats

Card 2

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 8	8	Numeric	SCC Number
9	1		Not Used
10	1	Alphabetic	Action Code
11 - 45	35	Alphanumeric	Units Description 1
46 - 79	34	Alphanumeric	Units Description 2
80	1	Numeric	Card Type

(Page 3 of 4)

Figure PST1-1 - continued. NEDS Emission Factor File Transaction Formats

Card 3

<u>Columns</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 8	8	Numeric	SCC Number
9	1		Not Used
10	1	Alphabetic	Action Code
11 - 19	9	Numeric	TSP Emission Factor*
20 - 23	4	Alphanumeric	TSP Flags
24 - 32	9	Numeric	SO ₂ Emission Factor*
33 - 36	4	Alphanumeric	SO ₂ Flags
37 - 45	9	Numeric	NO _x Emission Factor*
46 - 49	4	Alphanumeric	NO _x Flags
50 - 58	9	Numeric	HC Emission Factor*
59 - 62	4	Alphanumeric	HC Flags
63 - 71	9	Numeric	CO Emission Factor*
72 - 75	4	Alphanumeric	CO Flags
76 - 79	4		Not Used
80	1	Numeric	Card Type

*Format includes a decimal point with 6 digits to the left and 2 digits to the right.

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Figure PST1-1 - continued. NEDS Emission Factor File Transaction Formats

Header Card

<u>Columns</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Definition</u>
1 - 22	22	Numeric	Zeroes
23 - 80	58		Not Used

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Figure PST1-2. EIS/PS Emission Factor File Transaction Formats

Card 1

<u>Columns</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11 - 17	7	Blank	Key Alignment
18 - 22	5	Numeric	Date
23 - 39	17	Alphanumeric	SCC Description - Category 1
40 - 56	17	Alphanumeric	SCC Description - Category 2
57 - 73	17	Alphanumeric	SCC Description - Category 3
74 - 80	7		Not Used

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Figure PST1-2. EIS/PS Emission Factor File Transaction Formats

Card 2

<u>Columns</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11 - 17	7	Blank	Key Alignment
18 - 22	5	Numeric	Date
23 - 39	17	Alphanumeric	SCC Description - Category 4
40 - 74	35	Alphanumeric	Units Description, Characters 1 to 35
75 - 80	6		Not Used

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Figure PST1-2 - continued. EIS/PS Emission Factor File Transaction Formats

Card 3

<u>Columns</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Definition</u>
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11 - 17	7	Blank	Key Alignment
18 - 22	5	Numeric	Date
23 - 56	34	Alphanumeric	Units Description, Characters 36 to 69
57 - 80	24		Not Used

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Figure PST1-2 - continued. EIS/PS Emission Factor File Transaction Formats

Card 4

<u>Columns</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1	1	Numeric	Card Type
2	1	Alphabetic	Action Code
3 - 10	8	Numeric	SCC Number
11	1	Alphabetic	Emission Factor Origin
12	1	Alphanumeric	Emission Factor Source Type
13 - 17	5	Numeric	Pollutant ID
18 - 22	5	Numeric	Date
23 - 42	20	Alphanumeric	Pollutant Name
43 - 44	2		NEDS V Flags (not used)
45	1	Alphabetic	Ash Flag
46	1	Alphabetic	Sulfur Flag
47 - 48	2	Alphanumeric	Unit of Measure Code
49 - 57	9	Numeric	Emission Factor
58 - 60	3	Numeric	Ash Content*
61 - 63	3	Numeric	Sulfur Content*
64 - 66	3	Numeric	Control Device Efficiency
67	1	Alphanumeric	Emission Factor Confidence Level
68 - 80	13		Not Used

*Necessary only on zero pollutant transactions

(Page 5 of 5)

Figure PST1-2 - continued. EIS/PS Emission Factor File Transaction Formats


```

//PSTEST01 JOB  (ACCOUNTING INFO)
/**
/**  CREATE THE LIVE EMISSION FACTOR FILE AND DESCRIPTION FILE
/**  FROM NEUS TRANSACTIONS AND PRODUCE AN EMISSION FACTOR
/**  DETAILED REPORT
/**
//TEST1A EXEC FPEMF20,
//      MEMEMFC=FPEMFAC,
//      NEWDFSC=FPEDESCR,
//      WORKSPACE='50,20'
/**
/**  PRODUCE THE LIVE EMISSION FACTOR FILE AND DESCRIPTION
/**  FILE FROM CURRENT NEUS TRANSACTIONS
/**
//SORT11.INPUT DD *
10100101 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  PULVERIZED COAL  1
10100101 ATONS BURNED 0 2
10100101 A 17.00 A 38.00 S 18.00 .00 1.00 3
10100102 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  TRV GRATE STOKERS 1
10100102 ATONS BURNED 0 2
10100102 A 1.00 A 38.00 S 10.00 .00 1.00 3
10100103 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  10-100MMBTU PUL** 1
10100103 ATONS BURNED 0 2
10100103 A 17.00 A 38.00 S 18.00 .03 1.00 3
10100104 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  10-100MMBTU STU** 1
10100104 ATONS BURNED 0 2
10100104 A 2.00 A 38.00 S 10.50 .20 6.00 3
10100105 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ** 1
10100105 ATONS BURNED 0 2
10100105 A 17.00 A 38.00 S 18.00 .03 1.00 3
10100106 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER** 1
10100106 ATONS BURNED 0 2
10100106 A 2.00 A 38.00 S 6.00 .20 10.00 3
10100199 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  OTHER/NOT CLAS** 1
10100199 ATONS BURNED 0 2
10100199 A 17.00 A 38.00 S 18.00 .03 1.00 3
10100201 AEXTCOMB BUILEK  ELECTRIC GENERATNANTHRACITE COAL  PULV COAL WFT BNT 1
10100201 ATONS BURNED 0 2

```

(Remainder of transactions omitted)

```

//CONVERT.OPTIONS DD *
R0032
//UPDATE.EPSOLFF DD DUMMY
//UPDATE.EPSOLDS DD DUMMY
//UPDATE.OPTIONS DD *
R0032 FLAG4
/**
/**  PRINT A DETAILED REPORT OF THE EMISSION FACTOR FILE
/**
//TEST1B EXEC FPRPF10,
//      FMFCFIL=FPEMFAC,
//      DESCFIL=FPEDESCR

```

Figure PST1-4. Run Stream

EIS/PS NEDS EMISSION FACTOR FILE TRANSACTION SUMMARY PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSRWEF (EP0010)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ: 6,137

NUMBER OF TRANSACTIONS WRITTEN: 6,138

NUMBER OF ERRORS DETECTED: 0

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Figure PST1-5. Sample Output

NEDS TO EIS/PS EMISSION FACTOR CONVERSION PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PCVNEEF (EP0020)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

EIS/PS EMISSION FACTOR CONVERSION CONTROL CARDS LISTING

LIST OPTION JULIAN DATE
80052

6158.

10101201 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10101202 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10101203 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10101301 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10101303 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10199997 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10199998 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10199999 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10200702 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10200703 A *** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++
10200705 A

(Page 2 of 6)

Figure PST1-5 - continued. Sample Output

INPUT (NEOS) RECORD COUNT: 6,138
 OUTPUT (EIS/PS) RECORD COUNT: 11,615
 NUMBER OF ABORTS DETECTED: 0
 NUMBER OF ERRORS DETECTED: 570
 NUMBER OF WARNINGS DETECTED: 1

PROGRAM NAME: PCVNEEF (EP0020)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

PROGRAM NAME: PSREFTR (EP0030)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:	11,615
NUMBER OF TRANSACTIONS WRITTEN:	11,616
NUMBER OF ERRORS DETECTED:	0
NUMBER OF TRANSACTIONS REJECTED:	0

EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PEMEFAC (EP0040)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

CONTROL DATE IS 80032, ERROR OPTION IS FLAGM, LIST OPTION IS NOLIST

NUMBER OF INPUT TRANSACTIONS READ:	11,616
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF WARNING MESSAGES:	0
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF TRANSACTIONS REJECTED:	0
NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:	0
NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:	1,477
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:	0
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:	7,188

EMISSION FACTOR FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PMEFAC (EP0250)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST1-5 - continued. Sample Output

SCC 10100101	DATE 80032	CAT1 EXTCUMB BOILER	CAT2 ELECTRIC GENERATOR	CAT3 ANTHRACITE COAL	CAT4 PULVERIZED COAL	
		UNITS TONS BURNED				
FEDERAL	POLL ID 00000	PARTICULATE FACTOR	DATE 80032	CNTL 80032	CONTENTS: ASH=	SULFUR=
	POLL ID 11101	CO FACTOR	DATE 80032	EMF	17.000	A/S A
	POLL ID 42101	SO2 FACTOR	DATE 80032	EMF	1.000	A/S S
	POLL ID 42401	NOX FACTOR	DATE 80032	EMF	38.000	
	POLL ID 42602	HC FACTOR	DATE 80032	EMF	18.000	
	POLL ID 43101		DATE 80032	EMF	0.000	
SCC 10100102	DATE 80032	CAT1 EXTCUMB BOILER	CAT2 ELECTRIC GENERATOR	CAT3 ANTHRACITE COAL	CAT4 TRV GRATE STOKERS	
		UNITS TONS BURNED				
FEDERAL	POLL ID 00000	PARTICULATE FACTOR	DATE 80032	CNTL 80032	CONTENTS: ASH=	SULFUR=
	POLL ID 11101	CO FACTOR	DATE 80032	EMF	1.000	A/S A
	POLL ID 42101	SO2 FACTOR	DATE 80032	EMF	1.000	A/S S
	POLL ID 42401	NOX FACTOR	DATE 80032	EMF	38.000	
	POLL ID 42602	HC FACTOR	DATE 80032	EMF	10.000	
	POLL ID 43101		DATE 80032	EMF	0.000	
SCC 10100103	DATE 80032	CAT1 EXTCUMB BOILER	CAT2 ELECTRIC GENERATOR	CAT3 ANTHRACITE COAL	CAT4 10-100MMBTU PULV**	
		UNITS TONS BURNED				
FEDERAL	POLL ID 00000	PARTICULATE FACTOR	DATE 80032	CNTL 80032	CONTENTS: ASH=	SULFUR=
	POLL ID 11101	CO FACTOR	DATE 80032	EMF	17.000	A/S A
	POLL ID 42101	SO2 FACTOR	DATE 80032	EMF	1.000	A/S S
	POLL ID 42401	NOX FACTOR	DATE 80032	EMF	38.000	
	POLL ID 42602	HC FACTOR	DATE 80032	EMF	18.000	
	POLL ID 43101		DATE 80032	EMF	0.030	
SCC 10100104	DATE 80032	CAT1 EXTCUMB BOILER	CAT2 ELECTRIC GENERATOR	CAT3 ANTHRACITE COAL	CAT4 10-100MMBTU SIO**	
		UNITS TONS BURNED				
FEDERAL	POLL ID 00000	PARTICULATE FACTOR	DATE 80032	CNTL 80032	CONTENTS: ASH=	SULFUR=
	POLL ID 11101	CO FACTOR	DATE 80032	EMF	2.000	A/S A
	POLL ID 42101	SO2 FACTOR	DATE 80032	EMF	6.000	A/S S
	POLL ID 42401	NOX FACTOR	DATE 80032	EMF	38.000	
	POLL ID 42602	HC FACTOR	DATE 80032	EMF	10.500	
	POLL ID 43101		DATE 80032	EMF	0.200	
SCC 10100105	DATE 80032	CAT1 EXTCUMB BOILER	CAT2 ELECTRIC GENERATOR	CAT3 ANTHRACITE COAL	CAT4 <10MMBTU PULV12**	
		UNITS TONS BURNED				
FEDERAL	POLL ID 00000	PARTICULATE FACTOR	DATE 80032	CNTL 80032	CONTENTS: ASH=	SULFUR=
	POLL ID 11101	CO FACTOR	DATE 80032	EMF	17.000	A/S A
	POLL ID 42101	SO2 FACTOR	DATE 80032	EMF	1.000	

EIS/PS EMISSION FACTOR FILE LISTING SUMMARY

HEADER RECORD CONTROL FIELDS

CONTROL DATE IS 80032, PREVIOUS DATE IS 0, GENERATION NUMBER IS 1

DESCRIPTION FILE RECORD COUNT: 1477

EMISSION FACTOR FILE RECORD COUNT: 7188

NUMBER OF SCCS IN LIST: 1476

NUMBER OF POLLUTANT ENTRIES IN LIST: 7187

FEDERAL POLLUTANT ENTRIES: 7187

STATE POLLUTANT ENTRIES: 0

LOCAL POLLUTANT ENTRIES: 0

NUMBER OF ERRORS DETECTED: 0

NUMBER OF PAGES IN REPORT: 278

PROGRAM NAME: PKPEFAC (LP0230)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST1-5 - continued. Sample Output

EIS/PS Test 2

Create the Emission Factor File and Description File from NEDS Transactions

In this test run the emission factor file and description file are created from NEDS transactions using the cataloged procedure EPEME20 which executes PSRNEEF (EP0010), the NEDS emission factor file transaction sort program; PCVNEEF (EP0020), the NEDS to EIS/PS emission factor file transaction conversion program; PSREFTR (EP0030), the emission factor file transaction sort program; and PEMEFAC (EP0040), the emission factor file edit-maintenance program.

These same programs were used in Test 1 to create the official NADB EIS/PS emission factor file and description file. For a description of each program refer to Test 1.

The run stream for this test run contains the JCL needed to create the EIS/PS emission factor and description files. This run stream is shown in Figure PST2-1. It does not show all the input NEDS emission factor file transactions in the run stream, but does show the necessary JCL.

The cataloged procedure executed by this run stream is EPEME20. Substitutable parameters are used to name EPEMFC1 as the new emission factor file and EPDESC1 as the new description file. The user must supply the DD (data definition) information for the input NEDS emission factor file transactions in the SORT1 step and the option card files in the CONVERT and UPDATE steps. Since this test run creates the initial EIS/PS emission factor and description files, there is obviously not an input emission factor file or description file to be accessed. This is why the old emission factor file EPSOLEF, and the old description file, EPSOLDS, must be dummy files in the UPDATE step. The options specified in the CONVERT step of this test run are LIST and 80057, and the options specified in the UPDATE step are 80057, FLAGW, and LIST. Refer to Figure PST2-2 for the sample output produced by this test run.

```

//PSTEST02 JOB      (ACCOUNTING INFO)
/**
/**  CREATE THE TEST EMISSION FACTOR FILE AND DESCRIPTION FILE FROM
/**  MENS TRANSACTIONS
/**
//TEST2A EXEC EPFNF20,
//      TIME1='0,30',
//      TIME2='0,30',
//      TIME3='0,30',
//      TIME4='0,30',
//      NEWEMFC=EPFMFC1,
//      NEWDESC=EPDESC1,
//      WORKSPC='50,20'
/**
/**  PRODUCE THE TEST EMISSION FACTOR FILE AND DESCRIPTION FILE
/**
//SUP11.INPUT DD *
10100101 AEXTCOMB BUILEH  ELECTRIC GENERATNANTHRACITE COAL  PULVERIZED COAL  1
10100101 ATUNS BURNED  0 2
10100101 A 17.00 A 38.00 S 18.00 .00 1.00 3
10100105 AEXTCOMB BUILEH  ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU PULVIZ** 1
10100105 ATUNS BURNED  0 2
10100105 A 17.00 A 38.00 S 18.00 .03 1.00 3
10100106 AEXTCOMB BUILEH  ELECTRIC GENERATNANTHRACITE COAL  <10MMBTU STOKER** 1
10100106 ATUNS BURNED  0 2
10100106 A 2.00 A 38.00 S 6.00 .20 10.00 3
30100501 ACHEMICAL MFG  CARRON BLACK  CHANNEL PROCESS  1
30100501 A 2
30100501 A 2300.00 .00 .00 11500.00 33500.00 3
30101302 ACHEMICAL MFG  AGRICULTURAL CHEMNITHIC ACID  ARSP6P TAILGAS/NW 1
30101302 ATUNS PURE ACID PRODUCED  0 2
30101302 A 4.50 3
30200101 AFUND/AGRICULTURE ALFALFA DEHYDRATINGGENERAL  GENERAL  ** 1
30200101 ATUNS MFAL PRODUCED  0 2
30200101 A 60.00 3
30200201 AFUND/AGRICULTURE COFFEE ROASTING ROASTER  DIRECT FIRED  1
30200201 ATUNS GREEN BEANS  0 2
30200201 A 7.60 .10 3
30200202 AFUND/AGRICULTURE COFFEE ROASTING ROASTER  INDIRECT FIRED  1
30200202 ATUNS GREEN BEANS  0 2
30200202 A 4.20 .10 3

```

(Remainder of transactions omitted)

```

//CONVERT.OPTIONS DD *
LIST 80057
//UPDATE.EPSOLDF DD DUMMY
//UPDATE.EPSOLDS DD DUMMY
//UPDATE.OPTIONS DD *
80057 FLAGW LIST

```

Figure PST2-1. Run Stream

PROGRAM NAME: PSRNEEF (EP0010)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:	327
NUMBER OF TRANSACTIONS WRITTEN:	328
NUMBER OF ERRORS DETECTED:	0

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Figure PST2-2. Sample Output

PROGRAM NAME: PCVNEEF (EP0020)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

E18/PS EMISSION FACTOR CONVERSION CONTROL CARDS LISTING

```
LIST OPTION      JULIAN DATE      352.
LIST      80057

10300701 AEXTCOMB BOILER  COMMERCL-INSTITUTLPROCESS GAS  SEWAGE GAS  1
10300701 AMILLION CUBIC FEET BURNED
*** PCVNEEF 005 ERROR - NO VALID RECORD TYPE 3 FOR SCC 10300701 TO BE ADDED - NO OUTPUT FOR THIS SCC
+++++

30199999 A
*** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++

30200101 AFUOD/AGRICULTURE ALFALFA DEHYDRATNGENERAL  GENERAL  ** 1
*** PCVNEEF 004 ERROR - ADDITIONAL RECORD FOR RECORD TYPE 1 OF SCC NUMBER 30200101 - RECORD REJECTED
0 2

30200101 ATONS MEAL PRODUCED
*** PCVNEEF 004 ERROR - ADDITIONAL RECORD FOR RECORD TYPE 2 OF SCC NUMBER 30200101 - RECORD REJECTED
3

30200101 A 60.00
*** PCVNEEF 004 ERROR - ADDITIONAL RECORD FOR RECORD TYPE 3 OF SCC NUMBER 30200101 - RECORD REJECTED
+++++

30200199 A
*** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++

30500199 A
*** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++

30501605 A
*** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++

30501606 A
*** PCVNEEF 008 ERROR - NO USABLE POLLUTANT FIELDS IN RECORD - NO OUTPUT CREATED FOR THIS SCC
+++++

39000502 AINDUSTRIAL PROCESINPRUCES FUEL  DISTILLATE OIL  CEMENT KILN/DRYER 1
*** PCVNEEF 010 WARNING - SCC 39000502 TO BE ADDED, BUT NO RECORD 2 FOUND - OUTPUT FIELDS GENERATED

39000502 AINDUSTRIAL PROCESINPRUCES FUEL  DISTILLATE OIL  CEMENT KILN/DRYER 1
```

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INPUT (NEDS) RECORD COUNT: 328
 OUTPUT (EIS/PS) RECORD COUNT: 867
 NUMBER OF ABORTS DETECTED: 0
 NUMBER OF ERRORS DETECTED: 13
 NUMBER OF WARNINGS DETECTED: 1

PROGRAM NAME: PCVNEEF (EP0020)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST2-2 - continued. Sample Output

OUTPUT (EIS/PS) EMISSION FACTOR TRANSACTIONS

[illegible][illegible]

10200204 ALEXCOMB BUIER INDUSTRIAL HITUMINOUS COAL SPREADER STOKER 1

Figure PST2-2 - continued. Sample Output

PROGRAM NAME: PSREFR (EP0030)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ:	867
NUMBER OF TRANSACTIONS WRITTEN:	868
NUMBER OF ERRORS DETECTED:	0
NUMBER OF TRANSACTIONS REJECTED:	0

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Figure PST2-2 - continued. Sample Output

EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PEMEFAC (EP0040)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

CONTROL DATE IS 80057, ERROR OPTION IS FLAGW, LIST OPTION IS LIST

NUMBER OF INPUT TRANSACTIONS READ:	868
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF WARNING MESSAGES:	0
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF TRANSACTIONS REJECTED:	0
NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:	0
NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:	102
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:	0
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:	565

Figure PST2-2 - continued. Sample Output

EIS/PS EMF UPDATE - SCC DESCRIPTION FILE OUTPUT LIST

0000000080057	000001	ELECTRIC GENERATOR	ANTHRACITE COAL	PULVERIZED COAL	TONS BURNED	
1010010180057	EXTCUMB	BOILER	ELECTRIC GENERATOR	ANTHRACITE COAL	<10MMBTU PULVIZ**	TONS BURNED
1010010580057	EXTCUMB	BOILER	ELECTRIC GENERATOR	ANTHRACITE COAL	<10MMBTU STUKER**	TONS BURNED
1010010680057	EXTCUMB	BOILER	INDUSTRIAL	BITUMINOUS COAL	SPREADER STUKER	TONS BURNED
1020020480057	EXTCUMB	BOILER	INDUSTRIAL	BITUMINOUS COAL	OF/UF >10MMBTU/HR	TONS BURNED
1020020580057	EXTCUMB	BOILER	INDUSTRIAL	BITUMINOUS COAL	10-100MMBTU UFS**	TONS BURNED
1020020680057	EXTCUMB	BOILER	INDUSTRIAL	BITUMINOUS COAL	10-100MMBTU PUL**	TONS BURNED
1020040180057	EXTCUMB	BOILER	INDUSTRIAL	RESIDUAL OIL	NO 6 OIL	1000 GALLONS BURNED
1020040280057	EXTCUMB	BOILER	INDUSTRIAL	RESIDUAL OIL	10-100MMBTU/HR	**1000 GALLONS BURNED
1020040380057	EXTCUMB	BOILER	INDUSTRIAL	RESIDUAL OIL	<10MMBTU/HR	**1000 GALLONS BURNED
1020040480057	EXTCUMB	BOILER	INDUSTRIAL	RESIDUAL OIL	NO 5 OIL	1000 GALLONS BURNED
1020050180057	EXTCUMB	BOILER	INDUSTRIAL	DISTILLATE OIL	NO 1 AND NO 2 OIL	1000 GALLONS BURNED
1020050280057	EXTCUMB	BOILER	INDUSTRIAL	DISTILLATE OIL	10-100MMBTU/HR	**1000 GALLONS BURNED
1020050380057	EXTCUMB	BOILER	INDUSTRIAL	DISTILLATE OIL	<10MMBTU/HR	**1000 GALLONS BURNED
1020050480057	EXTCUMB	BOILER	INDUSTRIAL	DISTILLATE OIL	NO 4 OIL	1000 GALLONS BURNED
1020060180057	EXTCUMB	BOILER	INDUSTRIAL	NATURAL GAS	>10MMBTU/HR	MILLION CUBIC FEET BURNED
1020060280057	EXTCUMB	BOILER	INDUSTRIAL	NATURAL GAS	10-100MMBTU/HR	MILLION CUBIC FEET BURNED
1020060380057	EXTCUMB	BOILER	INDUSTRIAL	NATURAL GAS	<10MMBTU/HR	MILLION CUBIC FEET BURNED
1020110280057	EXTCUMB	BOILER	INDUSTRIAL	BAGASSE	10-100MMBTU/HR	**TONS BURNED
1020110380057	EXTCUMB	BOILER	INDUSTRIAL	BAGASSE	<10MMBTU/HR	**TONS BURNED
1030020980057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	BITUMINOUS COAL	SPREADER STUKER	TONS BURNED
1030040280057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	RESIDUAL OIL	10-100MMBTU/HR	**1000 GALLONS BURNED
1030040380057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	RESIDUAL OIL	<10MMBTU/HR	**1000 GALLONS BURNED
1030040480057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	RESIDUAL OIL	NO 5 OIL	1000 GALLONS BURNED
1030050180057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	DISTILLATE OIL	NO 1 AND NO 2 OIL	1000 GALLONS BURNED
1030050280057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	DISTILLATE OIL	10-100MMBTU/HR	**1000 GALLONS BURNED
1030050380057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	DISTILLATE OIL	<10MMBTU/HR	**1000 GALLONS BURNED
1030050480057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	DISTILLATE OIL	NO 4 OIL	1000 GALLONS BURNED
1030060180057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	NATURAL GAS	>10MMBTU/HR	MILLION CUBIC FEET BURNED
1030060280057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	NATURAL GAS	10-100MMBTU/HR	MILLION CUBIC FEET BURNED
1030060380057	EXTCUMB	BOILER	COMMERCL-INSTUTNL	NATURAL GAS	<10MMBTU/HR	MILLION CUBIC FEET BURNED
3010050180057	CHEMICAL MFG		CARBON BLACK	CHANNEL PROCESS		
3010130280057	CHEMICAL MFG		AGRICULTURAL CHEM	NITRIC ACID	ABSRBR TAILGAS/NM	TONS PURE ACID PRODUCED
3020010180057	FOOD/AGRICULTURE		ALFALFA DEHYDRAT	GENERAL	**TONS MEAL PRODUCED	
3020010280057	FOOD/AGRICULTURE		ALFALFA DEHYDRAT	ICYCLONE AND DRYER	PRIMARY	TONS PRODUCT
3020010380057	FOOD/AGRICULTURE		ALFALFA DEHYDRAT	MEAL COLLECTOR	ICYCLONE	TONS PRODUCT
3020010480057	FOOD/AGRICULTURE		ALFALFA DEHYDRAT	PELLET COOLER	ICYCLONE	TONS PRODUCT
3020020180057	FOOD/AGRICULTURE		COFFEE ROASTING	ROASTER	DIRECT FIRED	TONS GREEN BEANS
3020020280057	FOOD/AGRICULTURE		COFFEE ROASTING	ROASTER	INDIRECT FIRED	TONS GREEN BEANS
3020050180057	FOOD/AGRICULTURE		GRAIN ELEVATORS	TERMINAL ELEVATOR	SHIPPING/RECEIVI**	TONS GRAIN PROCESSED
3020050280057	FOOD/AGRICULTURE		GRAIN ELEVATORS	TERMINAL ELEVATOR	TRANSFER/CONVEY**	TONS GRAIN PROCESSED
3050010580057	PETROLEUM INDY		ASPHALT ROOFING	FELT SAT OPERATN	CONVENTIONAL PLNT	TONS SATURATED FELT PRODUCED
3050020180057	PETROLEUM INDY		ASPHALT CONCRETE	ROTARY DRYER	CONVENTIONAL PLNT	TONS PRODUCED
3050020280057	PETROLEUM INDY		ASPHALT CONCRETE	HOT LV/SCN/BIN/MX		TONS PRODUCED
3050020380057	PETROLEUM INDY		ASPHALT CONCRETE	STORAGE PILES		TONS PRODUCED
3050160180057	MINERAL PRODUCTS		LIME MFG	PRIMARY CRUSHING		TONS PRODUCED
3050160280057	MINERAL PRODUCTS		LIME MFG	SECOND CRUSH/SCRN		TONS PRODUCED
3050160380057	MINERAL PRODUCTS		LIME MFG	CALCINING	VERTICAL KILN	TONS PRODUCED
3050160480057	MINERAL PRODUCTS		LIME MFG	CALCINING	ROTARY KILN	TONS PRODUCED

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Figure PST2-2 - continued. Sample Output

EIS/PS Test 3

Update the Emission Factor File and Description File Using EIS/PS Transactions and Produce an Emission Factor File Detailed Report

In this test run, the emission factor and description files are updated with EIS/PS emission factor file transactions using the cataloged procedure EPEME10 which executes PSREFTR (EP0030), the emission factor file transaction sort program, and PEMEFAC (EP0040), the emission factor file edit-maintenance program. A detailed report of the updated files is printed using the cataloged procedure EPRPE10 which executes PRPEFAC (EP0230), the emission factor file detailed report program.

Descriptions of PSREFTR (EP0030), PEMEFAC (EP0040), and PRPEFAC (EP0230) were given in Test 1. PSREFTR (EP0030) and PEMEFAC (EP0040) were also used in Test 2 to create the initial emission factor and description files. In this test, records are added to the files and records are changed and/or deleted.

Changing data in existing description file records requires a type-1, type-2, or type-3 transaction, depending on the data being changed. Any data field can be changed, except the key field (the SCC number). However, the control date field is changed by PEMEFAC (EP0040) only if the date of the transaction is greater than the control date of the description file record. Changing data in an existing emission factor file record requires a type-4 transaction. Any data can be changed, except the key fields (the SCC number, the origin, the source type, the pollutant ID, and the record date). However, the control date field of the record (not to be confused with the record date field, which contains the record's creation date) is changed by PEMEFAC (EP0040) only if the transaction date is greater than the control date.

Deleting an SCC from the description file and the emission factor file requires a type-1 delete transaction. This will cause the description record and all pollutant records associated with the specified SCC to be deleted from their respective files. Deleting a single pollutant record from the emission factor file requires a type-4 delete transaction.

The run stream for this test run contains the JCL needed to update the emission factor and description files and produce a detailed report of these files. This run stream is shown in Figure PST3-1. It does not show all the input EIS/PS emission factor file transactions in the run stream, but does show the necessary JCL. The sample output produced by this run stream is shown in Figure PST3-2.

First, the run stream executes the cataloged procedure EPEME10. Substitutable parameters are used to specify EPEMFC1 (created in Test 2) as the current emission factor file, EPDESC1 (created in Test 2) as the current description file, EPEMFC2 as the new emission factor file and EPDESC2 as the new description file. The user must supply the DD (data definition) information for the input EIS/PS emission factor file transactions in the SORT step and the option card file in the UPDATE step. The options specified in this step are 80062 and LIST.

Next, the cataloged procedure EPRPE10 is executed to produce a detailed report of the emission factor and description files. Substitutable parameters are used to specify EPEMFC2 as the input emission factor file and EPDESC2 as the input description file.

```

//PSTEST03 JOB      (ACCOUNTING INFO)
/**
/**  UPDATE THE TEST EMISSION FACTOR FILE AND DESCRIPTION FILE
/**  USING FIS/PS TRANSACTIONS AND PRODUCE AN EMISSION FACTOR
/**  DETAILED REPORT
/**
//TEST3A EXEC FPFMF10,
//      OLDPMFC=FPFMFC1,
//      OLDPMFSC=FPDESC1,
//      NEWPMFC=FPFMFC2,
//      NEWPMFSC=FPDESC2
/**
/**  UPDATE THE EMISSION FACTOR FILE AND DESCRIPTION FILE
/**
//SORT.INPUT DD *
1A20600197      80061INTERNAL COMBUST      OTHER/NOT CLASS
1A20600198      80061INTERNAL COMBUST      OTHER/NOT CLASS
1A20600199      80061INTERNAL COMBUST      OTHER/NOT CLASS
2A20600199      80061      THOUSAND OF GALLONS
2A20600198      80061      THOUSAND OF GALLONS
1A90202020      80061SOLID WASTE      COMMERCIAL
2A90202020      80061      1000 GALLONS
4A90202020S 0000080061
4A90202020S 3260180061      327000
4A90202020S 8042480061      299025
3A90202020      80061
4A30200101S 0000080061      000000
4A30200101LA0000080061      000000
4A30200101A1110180061PARTICULATE      67000      8503
4A30200201S 4240180061SULFUR DIOXIDE      90      0000
4A30200201S 4310180061HYDROCARBONS      90      0000
4A30200201S 4260280061NITROGEN DIOXIDE      90      050      131
4A30200201S 4210180061CARBON MONOXIDE      90      0000
4A30200201S 2210480061ARGON      90      010      0001
4A30200201S 1110180061PARTICULATE      90      6609      1
4A30200201S 0000080061      120348
4A30200201L 10000080061      120348
4A30200201L 11110180061PARTICULATE      90      6609      1
4A30200201L 12210480061ARGON      90      010      0001

```

(Remainder of transactions omitted)

```

//UPDATE.OPTIONS DD *
P0062      LIST
//TEST3B EXEC FPFMF10,
//      REGION1=100K,
//      TIME1='3,0',
//      FMFCF11=FPFMFC2,
//      DESCF11=FPDESC2
/**
/**  PRODUCE A DETAILED REPORT OF THE UPDATE FILES
/**

```

Figure PST3-1. Run Stream

PROGRAM NAME: PSREFTR (EP0030)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF TRANSACTIONS READ: 301
 NUMBER OF TRANSACTIONS WRITTEN: 302
 NUMBER OF ERRORS DETECTED: 0
 NUMBER OF TRANSACTIONS REJECTED: 0

Figure PST3-2. Sample Output

PROGRAM NAME: PEMEFAC (EP00040)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

CONTROL DATE IS 80062, ERROR OPTION IS NOFLAGW, LIST OPTION IS LIST

4C10100101F 0000080060	117070
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100102F 0000080060	117070
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100103F 0000080060	117070
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100104F 0000080060	117070
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100109F 0000080060	117070
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100201F 0000080060	130200
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100202F 0000080060	130200
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100203F 0000080060	130200
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100204F 0000080060	130200
*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED	
4C10100205F 0000080060	130200

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Figure PST3-2 - continued. Sample Output

*** PEMEFAC 031 ERROR - DELETE SPECIFIED FOR NONEXISTENT SCC EMF RECORD, CARD REJECTED

NUMBER OF INPUT TRANSACTIONS READ:	302
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	133
NUMBER OF WARNING MESSAGES:	0
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF TRANSACTIONS REJECTED:	133
NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:	102
NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:	101
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:	565
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:	638

PROGRAM NAME: PEMEFAC (EP0040)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST3-2 - continued. Sample Output

0000000000000080057	000001			
101001011	00008005780057			
101001011	111018005780057PARTICULATE FACTOR	A		000017000
101001011	421018005780057CO FACTOR			000001000
101001011	421018005780057S02 FACTOR	S		000038000
101001011	426028005780057NOX FACTOR			000018000
101001011	431018005780057HC FACTOR			000000000
101001051	00008005780057			
101001051	111018005780057PARTICULATE FACTOR	A		000017000
101001051	421018005780057CO FACTOR			000001000
101001051	424018005780057S02 FACTOR	S		000038000
101001051	426028005780057NOX FACTOR			000018000
101001051	431018005780057HC FACTOR			000000030
101001061	00008005780057			
101001061	111018005780057PARTICULATE FACTOR	A		000002000
101001061	421018005780057CO FACTOR			000010000
101001061	424018005780057S02 FACTOR	S		000038000
101001061	426028005780057NOX FACTOR			000006000
101001061	431018005780057HC FACTOR			000000200
102002041	00008005780057			
102002041	111018005780057PARTICULATE FACTOR	A		000013000
102002041	421018005780057CO FACTOR			000002000
102002041	424018005780057S02 FACTOR	S		000038000
102002041	426028005780057NOX FACTOR			000015000
102002041	431018005780057HC FACTOR			000001000
102002051	00008005780057			
102002051	111018005780057PARTICULATE FACTOR	A		000005000
102002051	421018005780057CO FACTOR			000002000
102002051	424018005780057S02 FACTOR	S		000038000
102002051	426028005780057NOX FACTOR			000015000
102002051	431018005780057HC FACTOR			000001000
102002061	00008005780057			
102002061	111018005780057PARTICULATE FACTOR	A		000005000
102002061	421018005780057CO FACTOR			000002000
102002061	424018005780057S02 FACTOR	S		000038000
102002061	426028005780057NOX FACTOR			000015000
102002061	431018005780057HC FACTOR			000001000
102002071	00008005780057			
102002071	111018005780057PARTICULATE FACTOR	A		000013000
102002071	421018005780057CO FACTOR			000001000
102002071	424018005780057S02 FACTOR	S		000038000
102002071	426028005780057NOX FACTOR			000030000
102002071	431018005780057HC FACTOR			000000300
102004011	00008005780057			
102004011	111018005780057PARTICULATE FACTOR	S		000012000
102004011	421018005780057CO FACTOR			000005000
102004011	424018005780057S02 FACTOR	S		000159000
102004011	426028005780057NOX FACTOR			000060000
102004011	431018005780057HC FACTOR			000001000
102004021	00008005780057			

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Figure PST3-2 - continued. Sample Output

EIS/PS EMF UPDATE - EMISSION FACTOR FILE OUTPUT FILE

102004031	424018005780060S02 FACTOR	S	000159000	
102004031	426028005780060NOX FACTOR		000060000	
102004031	431018005780060HC FACTOR		000001000	130
102004041	00008006080060			
102004041	11018005780060PARTICULATE FACTOR		000010000	
102004041	421018005780060CO FACTOR		000005000	
102004041	424018005780060S02 FACTOR	S	000159000	
102004041	426028005780060NOX FACTOR		000060000	
102004041	431018005780060HC FACTOR		000001000	025
102005011	00008006080060			
102005011	11018005780060PARTICULATE FACTOR		000002000	
102005011	421018005780060CO FACTOR		000005000	
102005011	424018005780060S02 FACTOR	S	000144000	
102005011	426028005780060NOX FACTOR		000022000	
102005011	431018005780060HC FACTOR		000001000	025
102005021	00008006080060			
102005021	11018005780060PARTICULATE FACTOR		000002000	
102005021	421018005780060CO FACTOR		000005000	
102005021	424018005780060S02 FACTOR	S	000144000	
102005021	426028005780060NOX FACTOR		000022000	
102005021	431018005780060HC FACTOR		000001000	025
102005031	00008006080060			
102005031	11018005780060PARTICULATE FACTOR		000002000	
102005031	421018005780060CO FACTOR		000005000	
102005031	424018005780060S02 FACTOR	S	000144000	
102005031	426028005780060NOX FACTOR		000022000	
102005031	431018005780060HC FACTOR		000001000	080
102005041	00008006080060			
102005041	11018005780060PARTICULATE FACTOR		000007000	
102005041	421018005780060CO FACTOR		000005000	
102005041	424018005780060S02 FACTOR	S	000150000	
102005041	426028005780060NOX FACTOR		000022000	
102005041	431018005780060HC FACTOR		000001000	
102006011	00008005780057			
102006011	11018005780057PARTICULATE FACTOR		000010000	
102006011	421018005780057CO FACTOR		000017000	
102006011	424018005780057S02 FACTOR		000000600	
102006011	426028005780057NOX FACTOR		000700000	
102006011	431018005780057HC FACTOR		000001000	
102006021	00008005780057			
102006021	11018005780057PARTICULATE FACTOR		000010000	
102006021	421018005780057CO FACTOR		000017000	
102006021	424018005780057S02 FACTOR		000000600	
102006021	426028005780057NOX FACTOR		000180000	
102006021	431018005780057HC FACTOR		000003000	
102006031	00008005780057			
102006031	11018005780057PARTICULATE FACTOR		000010000	
102006031	421018005780057CO FACTOR		000020000	
102006031	424018005780057S02 FACTOR		000000600	
102006031	426028005780057NOX FACTOR		000120000	

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Figure PST3-2 - continued. Sample Output

EMISSION FACTOR FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRPEFAC (EP0230)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST3-2 - continued. Sample Output

EIS/PS EMISSION FACTOR FILE LISTING

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SCC 30200202 DATE 80061 CAT1 FOOD/AGRICULTURE CAT2 COFFEE ROASTING CAT3 ROASTER CAT4 INDIRECT FIRED									
UNITS TONS GREEN BEANS									
FEDERAL									
POLL ID 00000	DATE 80057	CNTL 80061	CONTENTS: ASH=					SULFUR=	
POLL ID 11101	DATE 80057	EMF	4.200						
POLL ID 11201	DATE 80061	EMF	23.150						
POLL ID 42602	DATE 80057	EMF	0.100						
STATE									
POLL ID 00000	DATE 80061	CNTL 80061	CONTENTS: ASH=	0.0,		SULFUR=0.00		A/S S	
POLL ID 11101	DATE 80061	EMF	4.005	U/M 90					
POLL ID 42101	DATE 80061	EMF	0.010	U/M 90					
POLL ID 42202	DATE 80061	EMF	7.390	U/M 90					
POLL ID 42602	DATE 80061	EMF	0.170	U/M 90					
POLL ID 43101	DATE 80061	EMF	0.170	U/M 90					
LOCAL 1									
POLL ID 00000	DATE 80061	CNTL 80061	CONTENTS: ASH=	0.0,		SULFUR=0.00			
POLL ID 11101	DATE 80061	EMF	4.005	U/M 90					
POLL ID 42101	DATE 80061	EMF	0.010	U/M 90					
POLL ID 42602	DATE 80061	EMF	0.170	U/M 90					
POLL ID 43101	DATE 80061	EMF	0.170	U/M 90					
SCC 30200501 DATE 80061 CAT1 FOOD/AGRICULTURE CAT2 GRAIN ELEVATORS CAT3 TERMINAL ELEVATOR CAT4 SHIPPING/RECEIVING**									
UNITS TONS GRAIN PROCESSED									
FEDERAL									
POLL ID 00000	DATE 80057	CNTL 80061	CONTENTS: ASH=					SULFUR=	
POLL ID 11101	DATE 80057	EMF	1.000						
POLL ID 22104	DATE 80061	EMF	2.403						
POLL ID 42101	DATE 80057	EMF	0.000						
POLL ID 42401	DATE 80057	EMF	0.000						
POLL ID 42602	DATE 80057	EMF	0.000						
POLL ID 43101	DATE 80057	EMF	0.000						
SCC 30200502 DATE 80061 CAT1 FOOD/AGRICULTURE CAT2 GRAIN ELEVATORS CAT3 TERMINAL ELEVATOR CAT4 TRANSFER/CONVEY**									
UNITS TONS GRAIN PROCESSED									
FEDERAL									
POLL ID 00000	DATE 80057	CNTL 80061	CONTENTS: ASH=					SULFUR=	
POLL ID 11101	DATE 80057	EMF	2.000						
POLL ID 22104	DATE 80061	EMF	2.403						
POLL ID 42101	DATE 80057	EMF	0.000						
POLL ID 42401	DATE 80057	EMF	0.000						
POLL ID 42602	DATE 80057	EMF	0.000						
POLL ID 43101	DATE 80057	EMF	0.000						
SCC 30500105 DATE 80057 CAT1 PETROLEUM INDTRY CAT2 ASPHALT ROOFING CAT3 FELT SAT OPERATN CAT4									
UNITS TONS SATURATED FELT PRODUCED									
FEDERAL									
POLL ID 00000	DATE 80057	CNTL 80057	CONTENTS: ASH=					SULFUR=	
POLL ID 11101	DATE 80057	EMF	6.300						
POLL ID 42101	DATE 80057	EMF	2.900						

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Figure PST3-2 - continued. Sample Output

HEADER RECORD CONTROL FIELDS

CONTROL DATE IS 80062, PREVIOUS DATE IS 80057, GENERATION NUMBER IS 2

DESCRIPTION FILE RECORD COUNT: 101

EMISSION FACTOR FILE RECORD COUNT: 638

NUMBER OF SCCS IN LIST: 100

NUMBER OF POLLUTANT ENTRIES IN LIST: 637

FEDERAL POLLUTANT ENTRIES: 533

STATE POLLUTANT ENTRIES: 37

LOCAL POLLUTANT ENTRIES: 67

NUMBER OF ERRORS DETECTED: 0

NUMBER OF PAGES IN REPORT: 22

PROGRAM NAME: PRPEFAC (EP0230)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST3-2 - continued. Sample Output

EIS/PS Test 4

Create the Initial Master File Using NEDS Transactions

In this test run, an initial EIS/PS master file is created from NEDS transactions using the cataloged procedure EPFMM20 which executes PSRNETR (EP0050), the NEDS transaction sort program; PCENETR (EP0060), the NEDS to EIS/PS master file transaction conversion-edit program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; PMSEFIN (EP0100), the master file internal transaction emission factor insertion program; PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program.

PSRNETR (EP0050) sorts NEDS point source transactions (see Figure PST4-1 for the transaction formats) into the sequence required by PCENETR (EP0060). The fields of each transaction are sorted in the following order:

<u>Record Position</u>	<u>Description</u>	<u>Sort Sequence</u>
1 - 2	State	Ascending
3 - 6	County	Ascending
7 - 9	AQCR	Ascending
10 - 13	Plant ID	Ascending
14 - 15	Point ID	Ascending
18 - 25	SCC	Ascending
80	Card Number	Ascending
78	Action Code	*

All NEDS transactions must be sorted by PSRNETR (EP0050) before they can be converted to EIS/PS master file transactions.

PCENETR (EP0060) edits the input NEDS point source transactions and converts those that pass the edit criteria into EIS/PS internal transactions.

The input NEDS point source transactions include the P1 through P7 cards; i.e., seven different formats. The NEDS P1 transaction is converted into type 01, 02, and 03 internal transactions. The NEDS P2, P3, P4, and P5

* Sort sequence is D (delete), A (add), C (change).

transactions are converted into type 11, 12, and 13 internal transactions. A NEDS P6 transaction is converted into type 21, 22, and 23 internal transactions. The NEDS P7 transaction can be converted into internal transaction types 24 and 25 or into either internal transaction type 04 or 14. Thus, all data fields from the NEDS transactions can be included in the EIS/PS master file. Refer to Figure PST4-1 for the NEDS point source transaction formats.

The plant, point, and SCC records in the master file can be added, changed, or deleted using NEDS transactions. In this test, the function of the transactions is to create (or add) records in the EIS/PS master file.

The action code on the transactions must be 'A' in order to create any master file records. To add a plant record to the master file, a valid P1 transaction is required. Note that a plant record must be present in the master file or the transaction to create a plant record must be in the input transaction file before any other records (point or SCC) will be accepted for that plant. Valid P2, P3, P4, and P5 transactions are required to add a point record to the master file. To add an SCC record, a valid P6 transaction is required. Before an SCC record can be added to the master file for a specific point, the point record must be present in the master file or the transactions to create the point record must be in the input transaction file.

To change a non-key field in a master file record, the user enters the appropriate transaction; i.e., a P1, P2, P3, P4, P5, P6, or P7 transaction, with the same key information as the master file record to be changed. Also, this transaction must have an action code of 'C' and contain the new information for the field to be changed. If these requirements are met, the non-blank, non-key fields of the transaction will replace the corresponding fields in the master file record. A change transaction with an asterisk in the first position of an optional (or non-key) field will cause that field in the master file to be flagged for deletion and change the first character in the field to an asterisk.

Similarly, the deletion of a master file record requires that the user enter a transaction with the same key information as the master file record to be deleted. However, the transaction must also have an action code of 'D' and

the remaining fields should contain blanks. It should be noted that the records would be flagged for deletion but not physically deleted. When a record is flagged for deletion, all its subordinate records are also flagged for deletion.

The options in this program are used to determine if the year field in the NEDS transactions is valid, if the warning messages are to appear in the diagnostic report, and if the input NEDS transactions and output internal transactions should be printed. A two-digit year must be specified in card columns 1 and 2 of the option card in order to edit the year field in the NEDS transactions (the transaction year must not be greater than the option card year). If the warning messages are to be printed in the diagnostic report, the word FLAGW must appear in card columns 4 through 8; or, the warning-level messages will be suppressed. In order for the input NEDS transactions and output internal transactions to be printed, the word LIST must appear in columns 10 through 13 of the option card; otherwise, the listings will not be printed. A valid option card must be present in the run stream; failure to enter the option card will cause program execution to be terminated prematurely.

PSREFIN (EP0090) sorts EIS/PS internal transactions into the sequence required by PMSEFIN (EP0100). All master file internal transactions must be sorted by PSREFIN (EP0090) before they can be used for the insertion of emission factors.

PMSEFIN (EP0100) inserts emission factor information from the EIS/PS emission factor file into the type 21 and 23 internal transactions. The information to be inserted, as well as the conditions for insertion, are specified on the option card.

In order to insert information, PMSEFIN (EP0100) matches the type 23 internal transactions to the emission factor file records by SCC number, origin, source, and pollutant ID; and, it matches the type 21 internal transactions by SCC number, origin, and source to emission factor file records which have pollutant ID's of zero and contain the ash and sulfur contents for their respective SCC number. If an internal transaction has a source of 'H', (hand calculate) no insertion will be made into that transaction.

If a matching emission factor file record is found for an internal transaction, the information in that record is inserted into the appropriate fields of the transaction. If the user submits a type 23 internal transaction containing a pollutant ID of zero, PMSEFIN (EP0100) will create a type 23 internal transaction to correspond to each pollutant ID contained in the emission factor file for that SCC, origin, and source combination. No changes are made to any of the other input internal transactions.

The user may specify by means of an option card the transaction fields for insertion and may specify whether or not data from the emission factor file should override (i.e., replace) existing data in any of those fields. The user also specifies whether or not emission factor file data must satisfy a date criterion, whether or not the input internal transactions must satisfy a date criterion, whether or not the date of the internal transactions is to be replaced by the date of the emission factor information, and whether or not warning messages should be printed. All options are specified in fixed fields on the option card. See Figure PST4-2 for the format of the option card.

A transaction field is specified for insertion by coding its identifier and an 'I' in the appropriate option card field. The valid fields for insertion and their identifiers are as follows:

<u>Field</u>	<u>Identifier</u>
Sulfur Content	SUL
Ash Content	ASH
Emission Factor	EMISSION

The emission factor field is the default insertion field if no valid fields are specified for insertion.

If a valid transaction field has been specified for insertion, that field must be blank for any data to be inserted. If the user desires to insert data into a field regardless of its content, he can specify an override for that field by coding an 'O' in the appropriate option card field. If an override is specified for a particular field, any data in that field will be replaced with data from the matching emission factor file record.

A date criterion can be established for the emission factor file data by coding a date identifier of EDAT and a date value. The date value is

expressed as a Julian date; that is, as a 5-character number, the first two digits of which represent the year, and the last three the day within the year. No insertion will be made into a field if the date of the matching emission factor file record is prior to the specified date. If no date criterion is specified, insertions will be made regardless of the date of the emission factor file data.

Likewise, a date criterion can be established for the input internal transactions by coding a date identifier of TDAT and a date value. No insertion will be made into any transaction with a date prior to this date. If no date criterion is specified, insertions into the transactions will be made regardless of their dates.

If the user desires to replace the date of each transaction with the date of the matching emission factor file record, he can do so by coding R in column 80 of the option card. Otherwise, no change will be made in the date of the transaction.

If FLAGW is coded in the warning message suppression field of the option card, all warning messages will be printed in the diagnostic report; if NOFLAGW is coded, no warning messages will be printed. If this field is left blank or improperly coded, a default of NOFLAGW is assumed.

PSRINTR (EP0110) sorts master file internal transactions into the sequence required by PFMMSTR (EP0120). All internal transactions must be sorted by PSRINTR (EP0110) before they can be used for creating or updating the master file.

PFMMSTR (EP0120) creates and maintains the EIS/PS master file which is a variable-length, sequential file. This file contains four types of records: plant, point, SCC, and comment.

The plant record contains general descriptive information pertaining to an individual plant (point source). Plants are defined by a plant ID within the county. These ID's are assigned sequentially beginning with 0001.

Each plant can contain up to 1,296 emission points. Each emission point is defined by a point record. NEDS point ID's are used to identify the points. The point record contains descriptive information on the point and its emissions, as well as detailed emission information for a maximum of 16 pollutants.

Each point record can have up to ten SCC records associated with it. More than one SCC record can be defined for an SCC by using the SCC sequence number. The SCC record contains descriptive information related to the SCC as well as detailed emission factor information for a maximum of 16 pollutants.

Comment records are related to emission points. Up to 99 comments with up to 999 lines (records) each can be used for a single point. The comment records are 'free form' and can contain permits and registration information as well as other comments desired for the point.

The options in PFMMSTR (EP0120) are used to determine if the warning messages are to be printed in the diagnostic report and if the listings of the input and output master file and of the internal transactions should be produced. A two-digit year may be specified in card columns 1 and 2. A value of FLAGW in card columns 4 through 8 will allow the warning messages to be printed. Otherwise, no warning messages will be printed. Similarly, a value of LIST in card columns 10 through 13 will produce all the listings. If the field is blank or invalid, the listings will not be produced.

The run stream for this test run contains the JCL needed to create an EIS/PS master file from NEDS transactions. This run stream is shown in Figure PST4-3. It does not show all the input NEDS transactions in the run stream, but does show the necessary JCL.

The cataloged procedure executed by this run stream is EPFMM20. Substitutable parameters are used to specify EPEMFC2 (created in Test 3) as the input emission factor file and EPMSTR1 as the newly created master file. The user must supply the DD (data definition) information for the input NEDS transaction file in the SORT1 step and the option card files in the CONVERT, INSERT, and UPDATE steps. The options specified in the CONVERT step are 80, FLAGW and LIST. For the INSERT step of the test run the options specified are: FLAGW, SUL IO, ASH IO, EMISSION IO, and R. And, the options specified in the UPDATE step are 80, FLAGW, and LIST. Since this test run creates the initial EIS/PS master file, there is obviously not an input master file to be accessed. This is why the old master file EPSOLMF must be a dummy file in the UPDATE step. Refer to Figure PST4-4 for the sample output produced by this test run.

NEDS TRANSACTION - P1 CARD

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 17	4	Numeric	City
18 - 19	2	Numeric	UTM Zone
20 - 21	2	Numeric	Year of Record
22 - 61	40	Alphanumeric	Name and Address
62 - 73	12	Alphanumeric	Contact
74	1	Alphabetic	Ownership Code
75 - 77	3		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'p'
80	1	Numeric	Card Number

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Figure PST4-1. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P2 CARD

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 21	4	Numeric	SIC
22 - 23	2	Numeric	IPP
24 - 27	4	Numeric	UTM Horizontal Coordinate
28 - 32	5	Numeric	UTM Vertical Coordinate
33 - 36	4	Numeric	Stack Height
37 - 39	3	Numeric	Stack Diameter
40 - 43	4	Numeric	Stack Temperature
44 - 50	7	Numeric	Exhaust Flow Rate
51 - 54	4	Numeric	Plume Height
55	1		Unused
56 - 59	4	Numeric	Points with Common Stack
60 - 77	18		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

(Page 2 of 8)

Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P3 CARD

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 22	5	Numeric	Boiler Design Capacity
23 - 25	3	Numeric	Primary Control Equipment - TSP
26 - 28	3	Numeric	Secondary Control Equipment - TSP
29 - 31	3	Numeric	Primary Control Equipment - SO ₂
32 - 34	3	Numeric	Secondary Control Equipment - SO ₂
35 - 37	3	Numeric	Primary Control Equipment - NO _x
38 - 40	3	Numeric	Secondary Control Equipment - NO _x
41 - 43	3	Numeric	Primary Control Equipment - HC
44 - 46	3	Numeric	Secondary Control Equipment - HC
47 - 49	3	Numeric	Primary Control Equipment - CO

(Page 3 of 8)

Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P3 CARD - continued.

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
50 - 52	3	Numeric	Secondary Control Equipment - CO
53 - 55	3	Numeric	Estimated Control Efficiency - TSP
56 - 58	3	Numeric	Estimated Control Efficiency - SO ₂
59 - 61	3	Numeric	Estimated Control Efficiency - NO _x
62 - 64	3	Numeric	Estimated Control Efficiency - HC
65 - 67	3	Numeric	Estimated Control Efficiency - CO
68 - 77	10		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P4 CARD

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 25	8	Numeric	Percentage Thruput
26 - 30	5	Numeric	Operating Rate
31 - 37	7	Numeric	Emissions Estimate - TSP
38 - 44	7	Numeric	Emissions Estimate - SO ₂
45 - 51	7	Numeric	Emissions Estimate - NO _x
52 - 58	7	Numeric	Emissions Estimate - HC
59 - 65	7	Numeric	Emissions Estimate - CO
66	1	Numeric	Estimation Method - TSP
67	1	Numeric	Estimation Method - SO ₂
68	1	Numeric	Estimation Method - NO _x
69	1	Numeric	Estimation Method - HC
70	1	Numeric	Estimation Method - CO
71 - 73	3	Numeric	Space Heat
74 - 77	4		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P5 CARD

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 24	7	Numeric	Allowable Emission - TSP
25 - 31	7	Numeric	Allowable Emission - SO ₂
32 - 38	7	Numeric	Allowable Emission - NO _x
39 - 45	7	Numeric	Allowable Emission - HC
46 - 52	7	Numeric	Allowable Emission - CO
53	1	Numeric	Compliance Status
54 - 57	4	Numeric	Compliance Schedule
58 - 63	6	Numeric	Compliance Update
64	1	Numeric	ECAP
65 - 76	12	Numeric	Control Regulations
77	1		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P6 CARD

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 25	8	Numeric	SCC
26 - 32	7	Numeric	Fuel Process Rate
33 - 39	7	Numeric	Maximum Design Rate
40 - 42	3	Numeric	Sulfur Content
43 - 45	3	Numeric	Ash Content
46 - 50	5	Numeric	Heat Content
51 - 70	20	Alphanumeric	Source Description
71	1	Alphabetic	Source Code
72	1	Numeric	Confidentiality
73 - 77	5		Unused
78	1	Alphabetic	Action Code
79	1	Alphabetic	'P'
80	1	Numeric	Card Number

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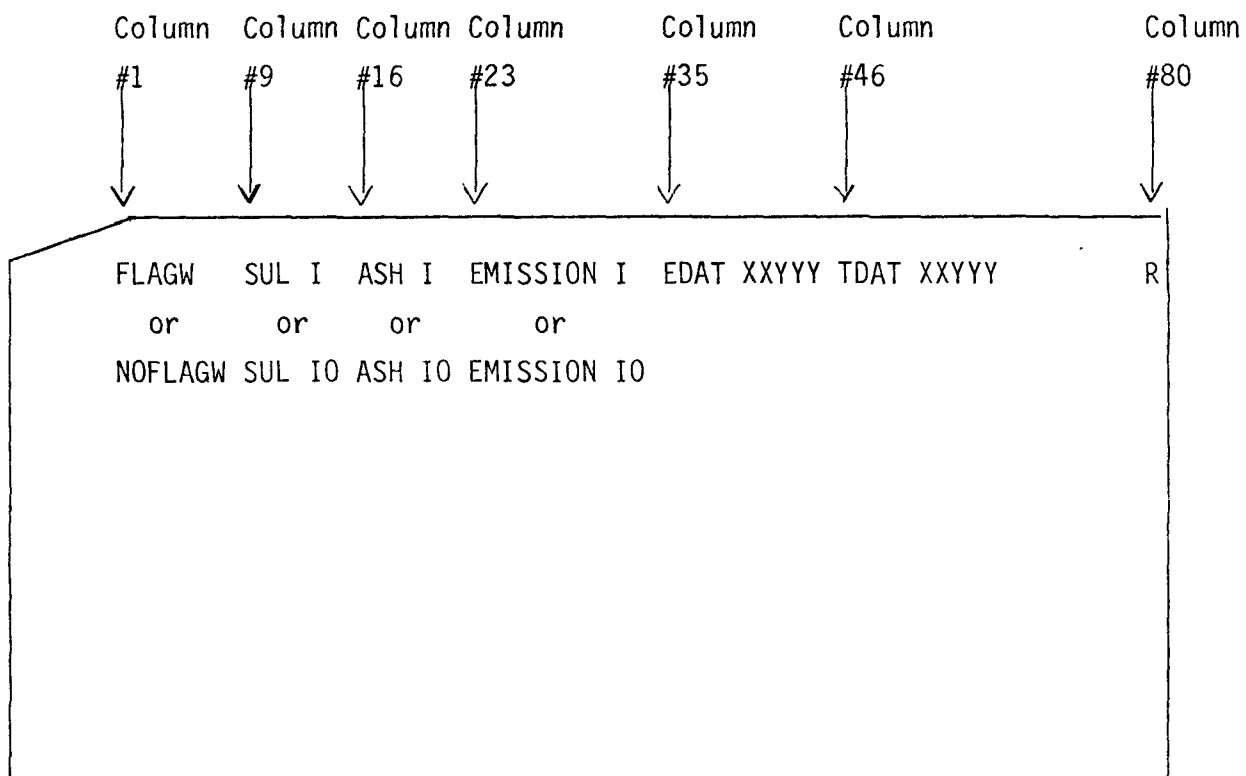
Figure PST4-1 - continued. NEDS Point Source Transaction Formats

NEDS TRANSACTION - P7 CARD

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 15	2	Alphanumeric	Point ID
16 - 17	2	Numeric	Year of Record
18 - 25	8	Numeric	SCC
26 - 77	52	Alphanumeric	Comment
78	1	Alphabetic	Action Code
79	1	Alphabetic	'p'
80	1	Numeric	Card Number

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Figure PST4-1 - continued. NEDS Point Source Transaction Formats



- Note:
1. XX denotes the year; YYY the Julian date
 2. Each field must contain one of the valid values indicated for it or be blank.

Figure PST4-2. Option Card Format

EIS/PS NEDS TRANSACTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSHNETR (EP0050)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:	322
NUMBER OF OUTPUT TRANSACTIONS:	322

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Figure PST4-4. Sample Output

NEDS TO EIS/PS CONVERSION-EDIT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PCENETR (EP0060)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

CONTRL DATE IS 80 , ERROR OPTION IS FLAGM , LIST OPTION IS LIST

```

BEB ER EB EHE
*** PCENETR 001 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
*** PCENETR 002 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
*** PCENETR 003 ERROR - COLUMN 07 - INVALID AUCH CODE, CARD REJECTED
*** PCENETR 004 ERROR - COLUMN 79 - INVALID ACTION TYPE, CARD REJECTED
*** PCENETR 005 ERROR - COLUMN 78 - INVALID CARD TYPE, CARD REJECTED
*** PCENETR 006 ERROR - COLUMN 80 - INVALID CARD NUMBER, CARD REJECTED
*** PCENETR 007 ERROR - COLUMN 10 - INVALID PLANT ID, CARD REJECTED
*** PCENETR 014 ERROR - COLUMN 14 - INVALID PLANT ID, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED

```

```

BEB ER EB EHE
*** PCENETR 001 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
*** PCENETR 002 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
*** PCENETR 003 ERROR - COLUMN 07 - INVALID AUCH CODE, CARD REJECTED
*** PCENETR 004 ERROR - COLUMN 79 - INVALID ACTION TYPE, CARD REJECTED
*** PCENETR 005 ERROR - COLUMN 78 - INVALID CARD TYPE, CARD REJECTED
*** PCENETR 006 ERROR - COLUMN 80 - INVALID CARD NUMBER, CARD REJECTED
*** PCENETR 007 ERROR - COLUMN 10 - INVALID PLANT ID, CARD REJECTED
*** PCENETR 014 ERROR - COLUMN 14 - INVALID PLANT ID, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED
*** PCENETR 085 ERROR - INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED

```

6472729991 23XXX1

```

BEB ER EB EHE
*** PCENETR 001 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
*** PCENETR 002 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED

```

WEDS TO EIS/PS CONVERSION-EDIT PROGRAM - DIAGNOSTIC REPORT

*** PCENEIR 021 CUNDITIONAL - COLUMN 37 - STACK DIAMETER EXCEEDS (0.2 * STACK HEIGHT)
 3400800530001 1772GRCNITEVILLE CU STEVENS STECM SITION MR MCKEOWN AP1
 *** PCENEIR 012 CUNDITIONAL - COLUMN 74 - INVALID OWNERSHIP CODE
 340080053000101724961003452371920100050055000244600000 AP2
 *** PCENEIR 018 CUNDITIONAL - COLUMN 28 - UTM-VERTICAL COORDINATE OUT OF RANGE
 *** PCENEIR 021 CUNDITIONAL - COLUMN 37 - STACK DIAMETER EXCEEDS (0.2 * STACK HEIGHT)

NUMBER OF TRANSACTIONS READ:	322
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:	576
NUMBER OF TRANSACTIONS REJECTED:	44
NUMBER OF ABORT MESSAGES:	0
NUMBER OF ERROR MESSAGES:	177
NUMBER OF CONDITIONAL MESSAGES:	149
NUMBER OF WARNING MESSAGES:	0

PROGRAM NAME: PCENEIR (EP0060)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

EIS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSHEFIN (EP0090)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:	576
NUMBER OF OUTPUT TRANSACTIONS:	576

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Figure PST4-4 - continued. Sample Output

MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

PROGRAM NAME: PMSEFIN (EP0100)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAG

FIELDS SELECTED FOR INSERTIONS: SUL ASH EMISSION

FIELDS TO BE OVERRIDDEN: SUL ASH EMISSION

SULFUR I	O	ASH I	O	EMISSION FACTOR I	O	DATE: EMISSION FACTOR	N	TRANSACTION	N
0800802400800000300042102000810000000000231080080240800374000041020008100						0085090	00002500008F	21A	
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD									
0800802400800000300042102000810000000000231080080240800374000041020008100F 00000								23A	
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD									
0800802400800000300032102000820000000002110800802408003740000031020008200						0013970	00002500008F	21A	
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD									
08008024008000003000022102000820000000002110800802408003740000021020008200						0013970	00002500008F	21A	
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD									
0800802400800000300012102000820000000002110800802408003740000011020008200						0013970	00002500008F	21A	
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD									
0800802400800000300012102000820000000002110800802408003740000011020008200F 00000								23A	
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD									

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Figure PST4-4 - continued. Sample Output

MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

SULFUR 1 0 ASH 1 0 EMISSION FACTOR I 0 DATE: EMISSION FACTOR N TRANSACTION N

NUMBER OF INPUT TRANSACTIONS: 576
 NUMBER OF EMISSION FACTOR RECORDS READ: 475
 NUMBER OF INSERTIONS MADE: 25
 NUMBER OF OUTPUT TRANSACTIONS: 720
 NUMBER OF 23 TRANSACTIONS CREATED: 184
 NUMBER OF WARNING MESSAGES: 14
 NUMBER OF CONDITIONAL MESSAGES: 0
 NUMBER OF ERROR MESSAGES: 0
 NUMBER OF ABORT MESSAGES: 0
 NUMBER OF DISASTER MESSAGES: 0

EIS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM

PROGRAM NAME: PSRINTR (EP0110)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 720
 NUMBER OF OUTPUT TRANSACTIONS: 720

EJS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES

NUMBER OF INPUT TRANSACTIONS READ	720
NUMBER OF DISASTERS DETECTED	0
NUMBER OF ABORTS DETECTED	0
NUMBER OF ERRORS DETECTED	13
NUMBER OF CONDITIONALS DETECTED	0
NUMBER OF WARNINGS DETECTED	0
NUMBER OF TRANSACTIONS REJECTED	8
NUMBER OF POINT SOURCE FILE RECORDS READ IN	0
NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT	123

EIS/PS Test 5

Update the Master File Using EIS/PS Transactions and Produce a Formatted Dump

In this test run, the master file is updated with EIS/PS transactions using the cataloged procedure EPEMM10 which executes PSRMFTR (EP0070), the master file transaction sort program; PEDMSTR (EP0080), the master file transaction edit program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; PMSEFIN (EP0100), the master file internal transaction emission factor insertion program; PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program. A formatted dump of the updated master file is printed using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

PSRMFTR (EP0070) sorts EIS/PS master file transactions (see Figure PST5-1 for the transaction formats) into the sequence required by the master file transaction edit program, PEDMSTR (EP0080). The fields of each transaction are sorted in the following order:

<u>Record Position</u>	<u>Description</u>	<u>Sort Sequence</u>
1 - 2	State	Ascending
3 - 6	County	Ascending
7 - 9	AQCR	Ascending
10 - 13	Plant ID	Ascending
19 - 20	Point ID	Ascending
78	Segment Type	Ascending
21 - 28	SCC	Ascending
21 - 22	PNR Sequence Number	Ascending
23 - 25	Line Number	Ascending
26	Comment Flag	Ascending
78 - 79	Card Number	Ascending
80	Action Code	*

* Sort sequence is D (delete), A (add), C (change).

All master file transactions must be sorted by PSRMFTR (EP0070) before they can be edited by the master file transaction edit program.

PEDMSTR (EP0080) edits the input EIS/PS master file transactions and converts those that pass the edit criteria into internal transactions.

There are 14 different formats for the EIS/PS transactions. Transactions 01, 02, 03, and 04 are used to enter general descriptive information pertaining to an individual plant (point source). Transactions 11, 12, 13, and 14 are used to enter descriptive information pertaining to an emission point and its emissions, as well as detailed emission information for a maximum of 16 pollutants. And, transactions 21, 22, 23, 24, and 25 are used to enter descriptive information related to an SCC, as well as detailed emission information for a maximum of 16 pollutants. Transaction 30 can contain permits and registration information and also other comments relating to a particular point. Refer to Figure PST5-1 for the master file transaction formats and to Figure PST5-2 for the master file transaction load sheets.

In the edit process, the function of each transaction is determined (i.e., to add, change, or delete information in the master file) and then the transaction is checked for the required information which corresponds to that function.

To add a plant record to the master file, valid 01, 02, and 03 transactions are required. Note that a plant record must be present in the master file or the transactions to create a plant record must be in the input transaction file before any other records will be accepted for that plant. Valid 11 and 12 transactions and at least one valid 13 transaction are required to add a point record to the master file. To add an SCC record, valid 21 and 22 transactions and at least one valid 23 transaction are required. For the creation of a comment record, a valid 30 transaction is required. Before either an SCC or comment record can be added to the master file for a specific point, the point record must be present in the master file or the transactions to create the point record must be in the input transaction file. Also, each transaction must have an action code of 'A'.

To change a non-key field in a master file record, the user enters the appropriate transaction; i.e., a plant transaction (card 01, 02, 03, or 04), a point transaction (card 11, 12, 13, or 14), an SCC transaction (card 21, 22, 23, 24, or 25), or comment transaction (card 30), with the same key information as the master file record to be changed. Also, this transaction must have an action code of 'C' and contain the new information for the field to be changed. If these requirements are met, the non-blank, non-key fields of the transaction will replace the corresponding fields in the master file record. A change transaction with an asterisk in the first position of an optional (or non-key) field will cause that field in the master file to be flagged for deletion and change the first character in the field to an asterisk.

Similarly, the deletion of a master file record requires that the user enter a transaction with the same key information as the master file record to be deleted. However, the transaction must also have an action code of 'D' and the remaining fields should contain blanks. It should be noted that the records are flagged for deletion as a result of this test run but are not actually deleted. When a record is flagged for deletion, all its subordinate records are also flagged for deletion.

There are three available options when executing PEDMSTR (EP0080); the year option, the FLAGW option, and the LIST option.

A two-digit year must be entered into card columns 1 and 2 of the option card. This date is used to validate dates on the transactions. No date (except compliance schedule) is allowed to be greater than the option card date.

A value of FLAGW in card columns 4 through 8 of the option card causes the warning messages to be listed in the diagnostic report. If NOFLAGW appears in card columns 4 through 10 or the field is blank (default of NOFLAGW) the warning messages will not be printed in the diagnostic report.

A value of LIST in card columns 12 through 15 causes the listings of the input transactions and of the output internal transactions to be produced. If NOLIST is in card columns 12 through 17 or the field is blank, no listings of these files will be produced.

For a description of the emission factor insertions programs, PSREFIN (EP0090) and PMSEFIN (EP0100), and the master file maintenance programs, PSRINTR (EP0110) and PFMMSTR (EP0120), refer to Test 4.

PRPDUMP (EP0220) produces a formatted dump of the EIS/PS master file; i.e., a listing with identifying headings of all the fields in each master file record, as the record appears in the file. PRPDUMP (EP0220) may also be used to produce a formatted dump of any EIS/PS answer file. This formatted dump provides the user a means of verifying information contained in a master (or answer) file and isolating invalid data.

The run stream for this test run contains the JCL needed to update the master file and produce a formatted dump. This run stream is shown in Figure PST5-3. It does not show all the input EIS/PS transactions in the run stream, but does show the necessary JCL. Refer to Figure PST5-4 for the sample output produced by this procedure.

The first cataloged procedure executed by this run stream is EPEMM10. The input master file, input emission factor file, and updated master file are specified as EPMSTR1 (created in Test 4), EPEMFC2 (created in Test 3), and EPMSTR2, respectively, by using substitutable parameters. The user must supply the DD (data definition) for the input transaction file in the SORT1 step, and the option card files in the EDIT, INSERT, and UPDATE steps. The options specified in the EDIT step are 80, FLAGW, and LIST; the options specified in the INSERT step are NOFLAGW, SUL IO, ASH IO, EMISSION IO, EDAT 80061, and TDAT 80040; the option specified in the UPDATE step is 80.

The next cataloged procedure executed is EPRPM30. The master file specified as input to the formatted dump program is EPMSTR2 which was created in the previous step.

EIS/PS Master File Transaction - 01 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 21	3	Alphanumeric	User Control Region
22 - 23	2	Alphanumeric	Local Control
24 - 35	12	Alphanumeric	User Plant ID
36 - 39	4	Numeric	City
40 - 41	2	Numeric	UTM Zone
42	1	Alphabetic	Ownership Code
43 - 57	15	Alphanumeric	Contact
58 - 67	10	Numeric	Telephone
68 - 77	10	Alphanumeric	Principal Product
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 02 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 66	48	Alphanumeric	Name and Address
67 - 70	4	Numeric	Number of Employees
71 - 76	6	Numeric	Property Area
77	1		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 03 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 66	48	Alphanumeric	Mailing Address
67 - 77	11		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 04 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 70	52	Alphanumeric	NEDS P7 Plant Comment
71 - 77	7		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 11 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 23	3	Alphanumeric	User Point ID
24 - 27	4	Numeric	SIC Code
28 - 29	2	Numeric	IPP Code
30 - 33	4	Numeric	UTM Horizontal Coordinate
34 - 38	5	Numeric	UTM Vertical Coordinate
39 - 44	6	Numeric	Latitude
45 - 51	7	Numeric	Longitude
52 - 59	8	Numeric	Percentage Annual Thruput
60 - 64	5	Numeric	Normal Operating Rate
65 - 69	5	Numeric	Boiler Design Capacity
70 - 72	3	Numeric	Space Heat Percentage
73 - 77	5		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 12 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 24	4	Numeric	Stack Height
25 - 27	3	Numeric	Stack Diameter
28 - 31	4	Numeric	Stack Temperature
32 - 38	7	Numeric	Exhaust Flow Rate
39 - 43	5	Numeric	Velocity
44 - 47	4	Numeric	Plume Height
48 - 51	4	Alphanumeric	Points with Common Stack
52	1	Numeric	Compliance Status
53 - 56	4	Numeric	Compliance Schedule
57 - 62	6	Numeric	Compliance Update
63	1	Numeric	ECAP
64 - 75	12	Numeric	Control Regulations
76 - 77	2		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 13 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 25	5	Numeric	Point Pollutant ID
26 - 32	7	Numeric	Control Equipment Cost
33 - 35	3	Numeric	Primary Control Equipment
36 - 38	3	Numeric	Secondary Control Equipment
39 - 41	3	Numeric	Estimated Control Efficiency
42 - 48	7	Numeric	Estimated Emissions
49 - 55	7	Numeric	Measured Emissions
56 - 62	7	Numeric	Allowable Emissions
63	1	Numeric	Emissions Units
64	1	Numeric	Estimation Method
65	1	Numeric	Test Method
66 - 77	12		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 14 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 72	52	Alphanumeric	NEDS P7 Point Comment
73 - 77	5		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 21 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31 - 35	5	Numeric	BEC Code
36	1	Numeric	Fuel Units
37 - 43	7	Numeric	Fuel Process Rate
44 - 50	7	Numeric	Maximum Design Rate
51 - 53	3	Numeric	Sulfur Content
54 - 56	3	Numeric	Ash Content
57 - 61	5	Numeric	Heat Content
62	1	Alphabetic	Ash-Sulfur Origin
63	1	Alphabetic	Ash-Sulfur Source
64 - 77	14		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 22 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31	1	Numeric	Confidentiality
32	1	Alphabetic	Source Code
33 - 57	25	Alphanumeric	Source Description
58 - 77	20		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 23 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31	1	Alphabetic	EMF Origin
32	1	Alphanumeric	EMF Source
33 - 37	5	Numeric	SCC Pollutant ID
38 - 46	9	Numeric	Emission Factor
47	1	Alphabetic	Ash-Sulfur Code
48	1	Numeric	EMF Units
49 - 64	16		Repeat Column 33 - 48
65 - 77	13		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 24 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31 - 56	26	Alphanumeric	NEDS P7 SCC Comment (Left Half)
57 - 77	21		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 25 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 28	8	Numeric	SCC
29 - 30	2	Numeric	SCC Sequence Number
31 - 56	26	Alphanumeric	NEDS P7 SCC Comment (Right Half)
57 - 77	21		Unused
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

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Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

EIS/PS Master File Transaction - 30 Card

<u>Column #</u>	<u>Field Length</u>	<u>Data Type</u>	<u>Description</u>
1 - 2	2	Numeric	State
3 - 6	4	Numeric	County
7 - 9	3	Numeric	AQCR
10 - 13	4	Alphanumeric	Plant ID
14 - 18	5	Numeric	Date
19 - 20	2	Alphanumeric	NEDS Point ID
21 - 22	2	Numeric	PNR Sequence Number
23 - 25	3	Numeric	PNR Line Number
26	1	Alphabetic	Comment Flag
27 - 77	51	Alphanumeric	Comment
78 - 79	2	Numeric	Card Number
80	1	Alphabetic	Action Code

(Page 14 of 14)

Figure PST5-1 - continued. EIS/PS Master File Transaction Formats

AGENCY _____

EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS / PS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
PLANT RECORD (SEGMENT O) TRANSACTIONS

BY _____
DATE _____
PAGE _____ OF _____

STATE	COUNTY	AOCR	PLANT ID NUMBER	DATE OF RECORD	
				YR	DAY
13		7	10	14	18

CON- TROL REGION	LOCAL CON- TROL	USER PLANT ID	CITY	UTM ZONE	Q W N E R	CONTACT PERSON	TELEPHONE	PRINCIPAL PRODUCT	CARD NBR
19	22	24	38	40	42 43		58		68
									78
									80
									011

ESTABLISHMENT NAME AND ADDRESS					NUMBER OF EMPLOYEES	PROPERTY AREA	CARD NBR
					67	71	78
							012
							80

ESTABLISHMENT MAILING ADDRESS						CARD NBR
					66	78
						013
						80

NEDS P7 PLANT COMMENT						CARD NBR
					70	78
						014
						80

Figure PST5-2. EIS/PS Master File Transaction Load Sheets

STATE	COUNTY	AQCR	PLANT ID NBR	DATE OF RECORD		NEDS POINT ID
				YR	DAY	
1	3	7	10	14		19

[illegible][illegible][illegible][illegible]

BY _____

DATE _____

PAGE _____ OF _____

[illegible]

BEC		FUEL PROCESS SOLID WASTE OPERATING RATE	MAXIMUM DESIGN RATE	SULFUR CON- TENT	ASH CON- TENT	HEAT CONTENT	A/S O R G	A/S R R C	CARD NBR	20- 70
NO.	D									
21		35 37	44	51	54	57	62	63	78	80
				▲	▲					21

PAGE		SOURCE DESCRIPTION	CARD NBR	PAGE NO.
01	02	57	78	80
			212	

[illegible][illegible]

NEDS P7 SCC COMMENT - RIGHT HALF										CARD NBR	00	
31										56	78	80
										215		

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Figure PST5-2 - continued. EIS/PS Master File Transaction Load Sheets

BY _____
DATE _____
PAGE _____ OF _____

STATE	COUNTY	AOCR	PLANT ID NBR	DATE OF RECORD YR DAY	POINT ID
1	3	7	10	14	19

[illegible]

```

//PSTEST05 JOB      (ACCOUNTING INFO)
/**
/**  UPDATE THE MASTER FILE USING EIS/PS TRANSACTIONS AND PRODUCE A
/**  FORMATTED DUMP
/**
//TEST54 EXEC EPEMN10,
//      FMFCF11=FPFMFC2,
//      OLDMSTR=FPFMSTR1,
//      NEWMSTR=FPFMSTR2,
//      WORKSPC='30,20'
/**
/**  UPDATE THE MASTER FILE FROM TEST 4
/**
//SUP11.INPUT DD *
06196005300018004712304PL-3175      001212PFRANKE SMYTHE 59195443769FNGINES 01A
061960053000180047SMYTHE ENGINE CO      14      19 02A
061960053000180047RED CAKE, COLORADO      03A
061960053000180047PLANT NOT IN PRODUCTION 12/79 THRU /4/80      04A
0619600530001800470101111412124540955571212105151520203011054700137097      11A
06196005300018004701 90 10 100      123 150 9000101281107912151 44 15 17      12A
0619600530001800470111101      100022041985      100      200      300433      13A
0619600530001800470142101      100022041985      100      200      300433      13A
06196005300018004701POINT ADDED 12/14/79      14A
061960053000180047014030010100123012      3000      4000912201      150LB      21A
0619600530001800470140300101001ENGINE      22A
061960053000180047014030010100LB11101      3241A122104      415S2      23A
061960053000180047014030010100LB42101      3241A142602      415S2      23A
061960053000180047014030010100SCF LEFT COMMENT P7      24A
061960053000180047014030010100SCF RIGHT P7 COMMENT      25A
061960053000180047014030010202123012      3000      4000912201      150LB      21A
0619600530001800470140300102021ENGINE      22A
061960053000180047014030010202LB11101      3241A122104      415S2      23A
061960053000180047014030010202LB42101      3241A142602      415S2      23A
061960053000180047014030010202SCF LEFT COMMENT P7      24A
0619600530001800470102021PLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/7930A
0619600530001800470102021R WILL BE CITED 3/1/80      30A
0619600530001801131601111412124540955571212105151520203011054700137097      11A
06196005300018011316 90 10 100      123 151 9001020281107912151 44 15 17      12A
0619600530001801131611101      100022041985      100      200      300433      13A
0619600530001801131642101      100022041985      100      200      300433      13A

```

(Remainder of transactions omitted)

```

//EDIT1.OPTIONS DD *
RU FLAG* LIST
//INSEPI.OPTIONS DD *
RUFLAG* SUB TO ASH IN EMISSION IN EDAT 80061 THAT 80040
//UPDATE.OPTIONS DD *
RU
//TEST58 EXEC EPRPM30,
//      MSTRF11=FPFMSTR2
/**
/**  GENERATE THE FORMATTED DUMP

```

Figure PST5-3. Run Stream

LIS/PS MASTER FILE TRANSACTION SURVEY PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSRPFTR (FP0070)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 239
NUMBER OF OUTPUT TRANSACTIONS: 239

(Page 1 of 11)

Figure PST5-4. Sample Output

PROGRAM NAME: PEDMSIR (EP0080)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAG* LIST
 CONTROL YEAR: 80

0619600530001800470101114121245409555712121051515202030301105470013709/ 11A
 *** PEDMSIR 034 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE OUT OF RANGE
 *** PEDMSIR 093 CONDITIONAL - COLUMN 52 - INVALID THROUGHPUT SUM

06196005300018004701 90 10 100 123 151 9001020281107912151 44 15 17 12A
 *** PEDMSIR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
 *** PEDMSIR 052 CONDITIONAL - COLUMN 48 - 1ST POINT GREATER THAN OR EQUAL TO 2ND POINT
 *** PEDMSIR 100 CONDITIONAL - NEEDS POINT ID NOT WITHIN COMMON STACK POINTS

061960053000180113101114121245409555712121051515202030301105470013709/ 11A
 *** PEDMSIR 034 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE OUT OF RANGE
 *** PEDMSIR 093 CONDITIONAL - COLUMN 52 - INVALID THROUGHPUT SUM

06196005300018011310 90 10 100 123 151 9001020281107912151 44 15 17 12A
 *** PEDMSIR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
 *** PEDMSIR 100 CONDITIONAL - NEEDS POINT ID NOT WITHIN COMMON STACK POINTS

06196005300041801470101114121245409555712121051515202030301105470013709/ 11A
 *** PEDMSIR 034 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE OUT OF RANGE
 *** PEDMSIR 093 CONDITIONAL - COLUMN 52 - INVALID THROUGHPUT SUM

061960053000418014701 90 10 100 123 152 9000101281107912151 44 15 17 12A
 *** PEDMSIR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
 *** PEDMSIR 052 CONDITIONAL - COLUMN 48 - 1ST POINT GREATER THAN OR EQUAL TO 2ND POINT
 *** PEDMSIR 100 CONDITIONAL - NEEDS POINT ID NOT WITHIN COMMON STACK POINTS

061960053000418014802011114121245409555712121051515202030301105470013709/ 11A
 *** PEDMSIR 034 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE OUT OF RANGE
 *** PEDMSIR 093 CONDITIONAL - COLUMN 52 - INVALID THROUGHPUT SUM

(Page 2 of 11)

Figure PST5-4 - continued. Sample Output

*** PEDMSIR 054 CONDITIONAL - COLUMN 34 - MIN-VERTICAL CODE OUT OF RANGE
 *** PEDMSIR 043 CONDITIONAL - COLUMN 52 - INVALID THROUGH SUM

06200405340W180345AB 90 10 100 123 153 900AAAB281107912151 44 15 17 12A
 B E

*** PEDMSIR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
 *** PEDMSIR 100 CONDITIONAL - NEDS POINT ID NOT WITHIN COMMON STACK POINTS

3400402030003601490113101 00069130023007 10 13A
 B E

*** PEDMSIR 067 ERROR - COLUMN 42 - EMISS. EST. REQUIRED FOR METHODS 2,4,5; CARD REJECTED

3400402030003801490162401 00069130023007 10 13A
 B E

*** PEDMSIR 067 ERROR - COLUMN 42 - EMISS. EST. REQUIRED FOR METHODS 2,4,5; CARD REJECTED

3400402030003801490126302 00069130023007 10 13A
 B E

*** PEDMSIR 067 ERROR - COLUMN 42 - EMISS. EST. REQUIRED FOR METHODS 2,4,5; CARD REJECTED

NUMBER OF TRANSACTIONS READ: 239
 NUMBER OF INTERNAL TRANSACTIONS WRITTEN: 236
 NUMBER OF TRANSACTIONS REJECTED: 3
 NUMBER OF ABORT MESSAGES: 0
 NUMBER OF ERROR MESSAGES: 3
 NUMBER OF CONDITIONAL MESSAGES: 35
 NUMBER OF WARNING MESSAGES: 0

PROGRAM NAME: PEDMSIR (EP0080)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

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EIS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSREFIN (EP0090)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:	236
NUMBER OF OUTPUT TRANSACTIONS:	293

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Figure PST5-4 - continued. Sample Output

PROGRAM NAME: PMSEFIN (EP0100)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: NOFLAGM

FIELDS SELECTED FOR INSERTIONS: SUL ASH EMISSION EDAT 80061 IDAT 80040

FIELDS TO BE OVERRIDDEN: SUL ASH EMISSION

SULFUR 1 0 ASH 1 0 EMISSION FACTOR 1 0

DATE: EMISSION FACTOR 80061 TRANSACTION 80040

NUMBER OF INPUT TRANSACTIONS:	293
NUMBER OF EMISSION FACTOR RECORDS READ:	638
NUMBER OF INSERTIONS MADE:	78
NUMBER OF OUTPUT TRANSACTIONS:	293
NUMBER OF 23 TRANSACTIONS CREATED:	0
NUMBER OF WARNING MESSAGES:	75
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

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EIS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM

PROGRAM NAME: PSRINTR (EP0110)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 293
 NUMBER OF OUTPUT TRANSACTIONS: 293

(Page 8 of 11)

Figure PST5-4 - continued. Sample Output

PROGRAM NAME: PFMWSTR (EP0120)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

CONTROL DATE IS 80 , ERROR OPTION IS NOFLAG, LIST OPTION IS NOLIST

```

0619600530000040100022403001010100000231061960053004180149024030010101LH5260100016000 1
*** PFMWSTR 016 ERROR - ATTEMPT TO ADD MORE THAN MAX NUMBER OF SCC POLLUTANTS 23A

0619600530000040100022403001010100000231061960053004180149024030010101LH63101000061000 1
*** PFMWSTR 016 ERROR - ATTEMPT TO ADD MORE THAN MAX NUMBER OF SCC POLLUTANTS 23A

0619600530000040100022403001010100000231061960053004180149029020200412401 00040000009000 00150S
*** PFMWSTR 033 ERROR - MORE THAN MAXIMUM NUMBER OF SCC FOR POINT 21A

061960053000004010002240300101010000023106196005300418014902902020042CPLAWT
*** PFMWSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER 22A

06196005300000401000224030010101000002310619600530041801490290202004S 42602 4
*** PFMWSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER 23A

06196005300000401000224030010101000002310619600530041801490290202004S 42101 4
*** PFMWSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER 23A

06196005300000401000224030010101000002310619600530041801490290202004S 22104 S4
*** PFMWSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER 23A

06196005300000401000224030010101000002310619600530041801490290202004S 00370F
*** PFMWSTR 033 ERROR - MORE THAN MAXIMUM NUMBER OF SCC FOR POINT 21A

06196005300000401000224030010101000002310619600530041801490290202004S 00370F
*** PFMWSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER 22A

06196005300000401000224030010101000002310619600530041801490290202004S 00000
*** PFMWSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER 23A

06196005300000401000224030010101000002310619600530041801490290202004S 00370F
*** PFMWSTR 033 ERROR - MORE THAN MAXIMUM NUMBER OF SCC FOR POINT 21A

06196005300000401000224030010101000002310619600530041801490290202004S 00370F
*** PFMWSTR 028 ERROR - INVALID INITIAL ADD CARD NUMBER 22A

```

EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES

NUMBER OF INPUT TRANSACTIONS READ 293
 NUMBER OF DISASTERS DETECTED 0
 NUMBER OF ABORTS DETECTED 0
 NUMBER OF ERRORS DETECTED 19
 NUMBER OF CUNDITIONALS DETECTED 0
 NUMBER OF WARNINGS DETECTED 0
 NUMBER OF TRANSACTIONS REJECTED 17
 NUMBER OF POINT SOURCE FILE RECORDS READ IN 123
 NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT 172

EIS/PS MASTER FILE FORMATTED DUMP PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PPDUMP (EP0220)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

PLANT (SEGMENT 0) RECORD COUNT: 33
 POINT SOURCE (SEGMENT 1) RECORD COUNT: 56
 POINT SOURCE POLLUTANT COUNT: 260
 MACHINE PROCESS (SEGMENT 2) RECORD COUNT: 75
 MACHINE PROCESS POLLUTANT COUNT: 301
 PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT: 8
 AVERAGE NUMBER OF POINT SOURCES PER PLANT: 1.7
 AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE: 4.6
 AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE: 1.3
 AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS: 4.0
 AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE: 0.1
 TOTAL NUMBER OF RECORDS READ: 172
 NUMBER OF ERRORS DETECTED: 0
 NUMBER OF PAGES IN REPORT: 33

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```

PLANT * 1
ST/CD=06 CY/CD=1960 AUCR/#=053 PL/ID=0001 DT=80047 USR/CNTL/RG=123 LCL/CNTL=04 USR/PL/ID=PL-3175 C1Y=0012 U1M/ZN=12 UNKSHP=P
CNTCT=FRANKL SMYTHE PHN=5919544376 NM/ADDR=SYNTHETIC ENGINE CO P1/FL=A P7/CMIS=PLANT NOT IN PRODUCTION 12/79 THRU /4/80
MLG/ADDR=RED OAKE, COLORADO PRD=9ENGINE LMP=0014 AREA=000019
P7/FL=A EIS FLAGS: 1=A 2=A 3=A 4=A

POINT SOURCE 01
SEG/DI=80047 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THKPT=02030301
NMML/UPER=10547 BULK/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/ID=0100 FLW/RT=0000123 VLUCTY=00150 PLW/HGHT=0900
PIS/CM/STKE COMPLCE/STAI=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTL/REGUL= 44 15 17 P2-PS/FLGS=AAAAA PWC5/FL=
P7/CMIS=POINT ADDED 12/14/79 P7/FL=A EIS FLAGS: 11=A 12=A 14=A #/PULL=02
** PULL/ID EQP/CST PRI/EQP SEC/EQP CNTL/EF EMISS/EST EMISS/MEAS ALLOW/EMISS UNCNL/EMISS EM/UTS EST/MT 1S/MT EIS/FL/13 **
** 42101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 A **
** 11101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 A **

SCC 40300101 SEW MHR 00
SEG/DI=80047 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=023 ASH/CT=023 MEAT/CT=00150 CNFD/DI=1 SC/CD=0
SC/DSC=ENGINE E/F/SC=H P6/FL=A P7/CMIS=SCC LEFT COMMENT P7 SCC RIGHT P7 COMMENT P7/FL=A
EIS/FLAGS: 21=A 22=A 24=A 25=A
** POLL/ID EMISS/FCIR A/S/CD E/F/UTS APPRI/EMISS EIS/FL/23 **
** 42602 00000000 2 42101 00000000 1 0000000 A **
** 22104 00000230 2 11101 00000000 1 0000000 A **

SCC 40300102 SEW MHR 02
SEG/DI=80047 BEC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=023 ASH/CT=012 MEAT/CT=00150 CNFD/DI=1 SC/CD=0
SC/DSC=ENGINE E/F/SC=H P6/FL=A P7/CMIS=SCC LEFT COMMENT P7 P7/FL=A
EIS/FLAGS: 21=A 22=A 24=A 25=
** POLL/ID EMISS/FCIR A/S/CD E/F/UTS APPRI/EMISS EIS/FL/23 **
** 11101 00000050 A 1 0000000 A **
** 42101 00000080 S 1 0000000 A **

PERMITS & REGISTRATION 02
KEY=061960053000000010001240300102020000000294
#E/F=04
EIS **
FLAG **
30 **
A **

** SEG LINE
** DATE Nbr
** 80047 21 PLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL BE CITED 3/1/80

POINT SOURCE 10
SEG/DI=80113 USR/PT/ID=011 SIC/CD=1141 IPP/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LNG=0515152 THKPT=02030301
NMML/UPER=10547 BULK/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/ID=0100 FLW/RT=0000123 VLUCTY=00151 PLW/HGHT=0900
PIS/CM/STKE COMPLCE/STAI=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTL/REGUL= 44 15 17 P2-PS/FLGS=AAAAA PWC5/FL=
P7/CMIS=POINT ADDED 12/14/79 P7/FL=A EIS FLAGS: 11=A 12=A 14=A #/PULL=02
** PULL/ID EQP/CST PRI/EQP SEC/EQP CNTL/EF EMISS/EST EMISS/MEAS ALLOW/EMISS UNCNL/EMISS EM/UTS EST/MT 1S/MT EIS/FL/13 **
** 42101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 A **
** 11101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 A **

```

EIS/PS Test 6

Submit Annual Report in NEDS Format

In this test run, data from the EIS/PS master file can be submitted to NEDS by generating NEDS point source transactions. The cataloged procedure EPRPM10 is used to execute PRPENTR (EPO200), the annual report program.

PRPENTR (EPO200) generates the annual report from the EIS/PS master file. This report consists of transactions which contain the information in the master file that has been added, changed, or deleted since the last execution of this program. These transactions can be generated in either the NEDS point source transaction format or the EIS/PS internal transaction format.

The option card for PRPENTR (EPO200) provides the user with three options: a transaction option, a warning option, and a list option. The transaction option allows the user to choose which type of transactions are to be generated (NEDS point source or EIS/PS internal transactions). If NEDS is specified in columns 1 through 4 of the option card, the program will generate NEDS point source transactions. To generate EIS/PS internal transactions, the user must specify POINT in columns 1 through 5 of the option card. If this field is left blank or if the option is specified incorrectly, program execution will be terminated.

The warning option allows the user to have the warning messages printed in the diagnostic report. If the user wants the warning messages printed, he must code FLAGW in columns 7 through 11 and leave column 12 and 13 blank. To suppress warning messages, the user must code NOFLAGW in columns 7 through 13 of the option card. If this field is left blank or if the option is specified incorrectly, the program will assume a default of NOFLAGW.

The list option allows the user to obtain listings of the input master file, the output master file, and the generated transactions. These listings are useful for confirming that the appropriate data has been submitted to NEDS and for diagnosing potential errors. To obtain listings, the user must code

LIST in columns 15 through 18 of the option card and leave columns 19 and 20 blank. To suppress the listings, the user must code NOLIST in columns 15 through 20 of the option card. If this field is left blank or if the option is specified incorrectly, the program will assume a default of NOLIST.

The output EIS/PS master file differs from the input master file in that the status flags have been set to reflect the new submission status of all the records. The output master file might contain fewer records than the input master file since some records may have been deleted.

The output transaction file, whether NEDS or EIS/PS internal transactions, contains only data which have been added, changed, or deleted since the last execution of PRPENTR (EP0200). Add transactions are generated when records have been added to the master file. Change transactions are generated when a data field in an existing record has been added, changed, or deleted. If a data field is to be deleted, the change transaction will contain an asterisk in the first position of the corresponding transaction field. Delete transactions are generated when an entire record has been flagged for deletion in the master file.

The run stream for this test run contains the JCL needed for converting data from the EIS/PS master file into NEDS point source transactions for submission to NEDS. This run stream is shown in Figure PST6-1.

The cataloged procedure executed by this run stream is EPRPM10. By using substitutable parameters, the input master file is specified as EPMSTR2 (created in Test 5) and the output master file is named EPMSTR3. The user must supply the DD (data definition) information for the option card file in the REPORT step. The options specified in this test run are NEDS, FLAGW, and LIST. Note that when NEDS transactions are being generated the EIS/PS internal transaction file EPSPSTR must be a dummy file in the REPORT step. The sample output produced by this run stream is shown in Figure PST6-2.

```

//PSTEST06 JOB      (ACCOUNTING INFO)
//*
//*   SUBMIT ANNUAL REPORT IN NEDS MODE
//*
//TESTA EXEC FPRPM10,
//      OLDMSR=EPMSR2,
//      NEWSR=EPMSR3
//*
//*   GENERATE THE ANNUAL REPORT
//*
//REPORT.EPSPSR DD DUMMY
//REPORT.OPTIONS DD *
NEDS FLAGW LIST

```

Figure PST6-1. Run Stream

PROGRAM NAME: PRPRETR (EP0200)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD: NEDS FLAG* LIST

INPUT EIS/PS MASTER FILE COUNT:	172
OUTPUT EIS/PS MASTER FILE COUNT:	172
RECORDS DELETED FROM MASTER FILE:	0
NEDS OUTPUT TRANSACTIONS COUNT:	334
ADD TRANSACTIONS COUNT:	334
CHANGE TRANSACTIONS COUNT:	0
DELETE TRANSACTIONS COUNT:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF WARNING MESSAGES:	0
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

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Figure PST6-2. Sample Output

06196005300018004701	12304PL-3175	001212PFRANKE	SMYTHE	5919544376	ENGINES	SMYTHE	EN
06196005300018004701	101111412124540955571212105151520203030110547001370970090010010000001						
061960053000180047201	10100123012003000004000578023001501BENGINE						
061960053000180047201	14030010202123012003000004000023012001501BENGINE						
061960053000180047301	102021APLANT	NOT FOLLOWING	GUIDELINES	AS SET	DCMA	12/14/79	WILL BE CI
0619600530001801131100111412124540955571212105151520203030110547001370970090010010000001							
06196005300018011321G4030010100123012003000004000578023001501BENGINE							
06196005300018011321G4030010100123012003000004000578023001501BENGINE							
06196005300018011321G4030010100123012003000004000578023001501BENGINE							
06196005300018011331L02021APLANT	NOT FOLLOWING	GUIDELINES	AS SET	DCMA	12/14/79	WILL BE CI	
06196005300018011331L02021APLANT	NOT FOLLOWING	GUIDELINES	AS SET	DCMA	12/14/79	WILL BE CI	
06196005300018014701	12304PL-3175	001212PGEORGE	SMYTHE	6919544376	ENGINES	SMYTHE	EN
06196005300018014701	101111412124540955571212105151520203030110547001370970090010010000001						
061960053000180147201	1020230202123012003000004000163058001501CLANTS						
061960053000180147201	14030010100123012003000004000578023001501BPLANTS						
061960053000180147301	102021APLANT	NOT FOLLOWING	GUIDELINES	AS SET	DCMA	12/14/79	WILL BE CI
0619600530001801481020111412124540955571212105151520203030110547001370970090010010000001							
06196005300018014920210203020112401	00396000925000163058009782	CLANT					
061960053000180149202206001970520001	005000000003000200	002902PPLANT					
061960053000180023202206001980512302300040000002000		003701 PLANT					
06196005300018014920230103203012302300040000003000		003701 PLANT					
0619600530001801492023020020101124010039600092500003481200047628PPLANT							
0619600530001801492023020020105200010050000000030003481200029018PPLANT							
0619600530001800232023020020110212402	003000000004000	0029018PPLANT					
06196005300018002320230200501001230120030000040000912201001501BPLANT							
061960053000180023202302050202123012003000004000912201001501BPLANT							
0619600530001801492024030010101123013003000004000578023002501BPLANT							
0619600530001801492024030010102123023023000400000000003701BPLANT							
061960053000180149202403001040112403	00020000010000	003701 PLANT					
061960053000180149202902020200112301	00300000040000	002502PPLANT					
0619600530001801492029020200212401	00040000009000	001502CPLANT					
0619600530001801492029020200312302	00004000005000	001502CPLANT					
06196005300018002330202021APLANT	NOT FOLLOWING	GUIDELINES	AS SET	DCMA	12/14/79		
062004053A0418014701	12304PL-3175	001212PGEORGE	SMYTHE	7919544376	ENGINES	SMYTHE	EN
062004053A0418014701	101111412124540955571212105151520203030110547001370970090010010000001						
062004053A041800232013020050100123012003000004000912201001501PCIL ST							
062004053A041800232013020050202123012003000004000912201001501COIL ST							
062004053A04180147301	102021APLANT	NOT FOLLOWING	GUIDELINES	AS SET	DCMA	12/14/79	WILL BE CI
062004053A041801481020111412124540955571212105151520203030110547001370970090010010000001							
062004053A0418002320230200501001230120030000040009122010							

Figure PST6-2 - continued. Sample Output

[illegible]

Figure PST6-2 - continued. Sample Output

NEDS OUTPUT TRANSACTIONS

```

061960053000100121280SYNTH ENGINE CO      FRAHKE SMYTHP  AP1
0619600530001 80      PLANT NOT IN PRODUCTION 12/79 THRU /4/80  AP7
06196005300010180114121245409550090010010000001230900  AP2
0619600530001018000137022041      985 00001003 3097  AP3
0619600530001018002030301105470000100 022041985  AP4
061960053000101800000300      POINT ADDED 12/14/79 44 15 17  AP5
06196005300010180      POINT ADDED 12/14/79  AP7
0619600530001018040300101003000000400057802300150ENGINE  B1  AP6
0619600530001018040300101SCC LEFT COMMENT P7      SCC RIGHT P7 COMMENT  AP7
0619600530001018040300102003000000400002301200150ENGINE  B1  AP6
0619600530001018040300102SCC LEFT COMMENT P7  AP7
0619600530001018040300102SCC LEFT COMMENT P7  AP2
0619600530001018000137022041      985 00001003 3097  AP3
061960053000101800000300 022041985  AP4
061960053000101800000300      POINT ADDED 12/14/79 44 15 17  AP5
06196005300010180      POINT ADDED 12/14/79  AP7
0619600530001018040300101003000000400057802300150ENGINE  B1  AP6
0619600530001018040300101SCC LEFT COMMENT P7      SCC RIGHT P7 COMMENT  AP7
0619600530001018040300102003000000400002301200150ENGINE  B1  AP6
0619600530001018040300102SCC LEFT COMMENT P7  AP7
06196005300010121280SYNTH ENGINE CO      GEORGE SMYTHP  AP1
0619600530001 80      PLANT NOT IN PRODUCTION 12/79 THRU /4/80  AP7
06196005300010180114121245409550090010010000001230900  AP2
0619600530001018000137 022041985 00002300000230 33097  AP3
0619600530001018000137 022041985 00002300000230 33097  AP4
061960053000101800203030110547 00003000000300281107912151 44 15 17  AP5
06196005300010180      POINT ADDED 12/14/79  AP7
06196005300010180      POINT ADDED 12/14/79  C1  AP6
061960053000101801020302003000000400016305800150PLANTS  P1  AP7
0619600530001018040300101003000000400057802300150PLANTS  P1  AP6
0619600530001018040300101SCC LEFT COMMENT P7      SCC RIGHT P7 COMMENT  AP7
0619600530001018040300101SCC LEFT COMMENT P7  AP2
06196005300010180114121245409550090010010000001230900  985 00002303 2097  AP3
0619600530001028000137022041 022041985  AP4
0619600530001028002030301105470000051 000053281107912151 44 15 17  AP5
061960053000102800000300      POINT ADDED 12/14/79  AP7
0619600530001028010203020030000925000016305800978PLANT  C2  AP6
06196005300010280206001970050000003000200 00290PLANT  P2  AP6
06196005300010280206001980040000002000 00370PLANT  1  AP6
0619600530001028030103203004000003000 00370PLANT  1  AP6
06196005300010280302020103960009250000034912000978PLANT  P2  AP6
061960053000102803020201050000000000034812000290PLANT  B1  AP6
0619600530001028030202010030000004000 00290PLANT  B1  AP6
0619600530001028030202010030000004000 00290PLANT  B1  AP6
061960053000102803020501003000000400091220100150PLANT  SCC RIGHT P7 COMMENT  AP7
061960053000102803020501SCC LEFT COMMENT P7  B1  AP6
061960053000102803020502SCC LEFT COMMENT P7  B1  AP7
06196005300010280403001010030000004000057802300250PLANT  B1  AP6
061960053000102804030010100400000030000000000370PLANT  B1  AP6
06196005300010280403001040020000010000 00370PLANT  1  AP6
061960053000102809020200300000040000 00250PLANT  P2  AP6
061960053000102809020200300000040000 00150PLANT  C2  AP6

```

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Figure PST6-2 - continued. Sample Output

EIS/PS Test 7

Generate Master File Emission Factor Transactions to Update the Emission Factor Information in the Master File

In this test run, internal transactions are generated from the master file and emission factor information is inserted into these transactions using the cataloged procedure EPMSM10. This procedure executes PMSEFGN (EP0130), the master file emission factor transaction generator program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; and PMSEFIN (EP0100), the master file internal transaction emission factor insertion program.

PMSEFGN (EP0130) generates EIS/PS 21 and 23 internal transactions to update the emission factor information in the master file SCC records. A 21 change internal transaction is generated for each SCC record in the master file that satisfies the origin/source combination and date criteria (both are specified on an option card) and for which the matching emission factor file record satisfies the date criterion. One 23 change internal transaction is generated for each of the pollutant ID's contained in the master file record. The date of the generated transactions will be the same as the date specified on the option card.

An option card is used to specify the origin/source combination and the date; it is also used to specify whether or not the warning messages should be printed.

The user must specify an origin/source combination to be satisfied by both the emission factor file records and the master file records. If internal transactions are desired for Federal-origin SCC records, an origin of 'F' must be coded in column 1 of the option card; for State-origin records, an 'S' must be coded in column 1; and for Local-origin records, an 'L' must be coded in column 1 and the desired source in column 2.

The user must also specify a date to be satisfied by both the emission factor file records and the master file records. The date of the emission

factor file record must be greater than or equal to the specified date and the date of the master file record must be less than the specified date for a transaction to be generated. The date is specified by coding a five-digit Julian date in columns 8 through 12 of the option card, where the first two digits represent the year and the last three, the day within the year. If no date is specified, or if the date is not numeric, program execution will be terminated.

If FLAGW is coded in the warning message suppression field (columns 18 through 24) of the option card, all warning messages will be printed in the diagnostic report; if NOFLAGW is coded, no warning messages will be printed. If this field is left blank or improperly coded, a default of NOFLAGW is assumed.

PMSEFGN (EP0130) generates an option card which is passed to PMSEFIN (EP0100) and used as the input option card. The options specified are as follows:

1. Insert sulfur and ash contents
2. Insert emission factor
3. EDAT-XXYYY, where XXYYY is equal to the date specified for PMSEFGN (EP0130)
4. Replace the date of the transaction with the emission factor file date
5. The same warning message suppression option as specified for PMSEFGN (EP0130)

The programs PSREFIN (EP0090) and PMSEFIN (EP0100) are used to insert information from the emission factor file into the generated internal transactions. For a description of these two programs refer to Test 4. Note that in this test the option card input to PMSEFIN (EP0090) is supplied by PMSEFGN (EP0130).

The run stream for this test run contains the JCL needed for generating internal transactions from the master file and then inserting emission factor information into these transactions. This run stream is shown in Figure PST7-1.

The cataloged procedure executed by this run stream is EPMSM10. Substitutable parameters are used to specify EPMSTR3 (created in Test 6) as

the input master file, EPEMFC2 (created in Test 3) as the input emission factor file, and EPINTR1 as the generated internal transaction file. The DD (data definition) information for the option card file in the GENER step must be supplied by the user. The options specified in this test are F, 80060, and FLAGW. Refer to Figure PST7-2 for the sample output produced by this test run.

```

//PSTEST0/ JOB      (ACCOUNTING INFO)
//*
//*   GENERATE MASTER FILE EMISSION FACTOR TRANSACTIONS
//*
//TEST7A EXEC FPMSM10,
//      MSTRFIL=EPMSR3,
//      FMFCFIL=EPFMFC2,
//      NEWINTR=EPINTR1
//*
//*   CREATE EMISSION FACTOR INTERNAL TRANSACTIONS
//*   FROM THE TEST 5 MASTER FILE
//*
//GENOP,OPTIONS DD *
F      80060      FLAG*

```

Figure PST7-1. Run Stream

PROGRAM NAME: PMSEFGN (EP0130)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAGN

ORIGIN AND SOURCE SPECIFIED: FEDERAL

DATE SPECIFIED: 80060

0619600530000040100022206001980500000
 *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

0619600530000040100022302002011000000
 *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

0619600530000040100022403001040100000
 *** PMSEFGN 005 WARNING - NO TRANSACTIONS GENERATED DUE TO MASTER FILE DATE

080008240080000010001210200503000000
 *** PMSEFGN 005 WARNING - NO TRANSACTIONS GENERATED DUE TO MASTER FILE DATE

080008240080000002001210200503000000
 *** PMSEFGN 005 WARNING - NO TRANSACTIONS GENERATED DUE TO MASTER FILE DATE

0800082400800000050001210200503000000
 *** PMSEFGN 005 WARNING - NO TRANSACTIONS GENERATED DUE TO MASTER FILE DATE

08000824008000000000801230501601000000
 *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

080008240080000010001230500201000000
 *** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED

Figure PST7-2. Sample Output

MASTER FILE EMISSION FACTOR TRANSACTION GENERATOR PROGRAM

3400402030000000012102005030000000
 *** PMSEFGN 005 WARNING - NO TRANSACTIONS GENERATED DUE TO MASTER FILE DATE

PROGRAM NAME: PMSEFGN (EP0130)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ:	172
NUMBER OF EMISSION FACTOR RECORDS READ:	638
NUMBER OF 21 TRANSACTIONS CREATED:	10
NUMBER OF 23 TRANSACTIONS CREATED:	38
NUMBER OF WARNING MESSAGES:	49
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

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Figure PST7-2 - continued. Sample Output

EIS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSREFIN (EP0090)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:	48
NUMBER OF OUTPUT TRANSACTIONS:	48

MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

PROGRAM NAME: PWSEFIN (EP0100)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAGW

FIELDS SELECTED FOR INSERTIONS: SUL 43H EMISSION EDAT 80060

FIELDS TO BE OVERRIDDEN: NONE

FLAGW SUL I ASH I EMISSION I EDAT 80060 R

*** PWSEFIN 012 ERROR - NO VALID OVERRIDES SPECIFIED - NO OVERRIDES ASSUMED

SULFUR I	N	ASH I	N	EMISSION FACTOR I	N	DATE: EMISSION FACTOR 80060	TRANSACTION	N
06196005300000401000230200501000000021206196005						004180060	F	21C
*** PWSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE								
062004053112704010001230200501000000021206200405						004180060	F	21C
*** PWSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE								
06200405311273301112230200501000000021206200405						004180060	F	21C
*** PWSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE								
06200405311273301012730200501000000021206200405						004180060	F	21C
*** PWSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE								

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Figure PST7-2 - continued. Sample Output

MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

SULFUR I N ASH I N EMISSION FACTOR I N DATE: EMISSION FACTOR 80060 TRANSACTION N

062004053112704010001230200502020000023206200405J:QW180060 F 42602 23C

*** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

062004053112733010127230200502020000023206200405J:QW180060 F 42602 23C

*** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

06196005330000401002230200502020000023206196005J:QW180060 F 42602 23C

*** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

06200405311273301112230200502020000023206200405J:QW180060 F 42602 23C

*** PMSEFIN 006 WARNING - NO INSERTION DUE TO EMISSION FACTOR FILE DATE

PROGRAM NAME: PMSEFIN (EP0100)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:	48
NUMBER OF EMISSION FACTOR RECORDS READ:	294
NUMBER OF INSERTIONS MADE:	10
NUMBER OF OUTPUT TRANSACTIONS:	48
NUMBER OF 23 TRANSACTIONS CREATED:	0
NUMBER OF WARNING MESSAGES:	36
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	1
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

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EIS/PS Test 8

Edit EIS/PS Master File Transactions

In this test run, EIS/PS master file transactions are edited using the cataloged procedure EPEDT10, which executes PSRMFTR (EP0070), the master file transaction sort program; and PEDMSTR (EP0080), the master file transaction edit program. Test 5 provides a discussion of each of these programs.

The run stream for this test run contains the JCL needed to edit master file transactions. Figure PST8-1 shows this run stream.

The cataloged procedure executed by this run stream is EPEDT10. A substitutable parameter names EPINTR2 as the output internal transaction file. The DD (data definition) information for the input master file transaction file in the SORT step and the option card file in the EDIT step must be supplied by the user. The option specified in the EDIT step is 80. Sample output for this test run is shown in Figure PST8-2.

```

//PSTESTJOB JOB (ACCOUNTING INFO)
//*
//* EDIT ETS/PS MASTER FILE TRANSACTIONS
//*
//TESTJOB EXEC EXECUTION,
// INTRTRM=FPINTRP
//*
//* EDIT TRANSACTIONS FOR UPDATING THE MASTER IN THE NEXT
//* RUN
//*
//START.INPUT DD *
061960053000180065SMYTHE ENGINE COMPANY INC. 0025000035 02C
061960053000180065PLANT WILL START PRODUCTION 05/01/80 04C
06196005300018006501431010102250022041907000105000021000003000433 13A
06196005300018006501PULL 43101 ADDED 03/21/80 14C
061960053000180065014030010202 ENGINE EXHAUST FUMPS 22C
061960053000180065014030010202 22104 23D
061960053000180065014030010202POLLUTANT 22104 DELETED ON 24C
061960053000180065014030010202 03/21/80 25C
0619600530001800650102001LTHIS COMMENT ADDED 03/21/80 30A
0619600530001800650102021LPLANT NOW FOLLOWING GUIDELINES AS SET DOWN 12/14/7930C
0619600530001800650102021R WILL NOT BE CITED FOR VIOLATIONS 30C
0619600530001800650102022LTHIS IS THE END OF THIS COMMENT 30A
06196005300041800650142101 13D
061960053000418006501PULL 42101 DELETED 03/21/80 14C
062004053004180065 01D
06000624000018006501 11D
060006240000280065013050200100 21D
0620040530001800651002021 30D
180060224000380065 9195551212 01C
1800602240003800652800 PARK AVENUE, JEFFERSON N.C. 03C
180060224000380065ADDRESS & PHONE NUMBER ADDED 03/21/80 04C
18006022400038006503 180018003211 12C
18006022400038006503COMPLIANCE DATA & ECAH ADDED 03/21/80 14C
180060224000380065031030020900 22301000040500A 23A
180060224000380065031030020900PULL 22301 ADDED 03/21/80 24A
1800602240003800650300001LNU MAKE CHANGES, ADDITIONS, OR DELETIONS WERE MADE 30A
1800602240003800650300001RBEYOND THIS POINT IN THE FILE 30A
//EDIT.OUTPUT DD *
RU

```

Figure PST8-1. Run Stream

EIS/PS MASTER FILE TRANSACTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSRMFTR (EP0070)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 27
 NUMBER OF OUTPUT TRANSACTIONS: 27

EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PEDMSTR (EP0080)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: NOFLAGW NOLIST
 CONTROL YEAR: 80

80 *** PEDMSTR 003 CONDITIONAL - INVALID FLAGW OPTION, DEFAULT (NOFLAGW) ASSUMED
 *** PEDMSTR 004 CONDITIONAL - INVALID LIST OPTION, DEFAULT (NOLIST) ASSUMED

180060224000380065031030020900 22301000040500A 23A
 B
 *** PEDMSTR 106 ERROR - COLUMN 31 - INVALID ENF ORIGIN, CARD REJECTED

NUMBER OF TRANSACTIONS READ:	27
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:	26
NUMBER OF TRANSACTIONS REJECTED:	1
NUMBER OF ABORT MESSAGES:	0
NUMBER OF ERROR MESSAGES:	1
NUMBER OF CONDITIONAL MESSAGES:	2
NUMBER OF WARNING MESSAGES:	0

Figure PST8-2. Sample Output

EIS/PS Test 9

Concatenate Internal Transactions, Update the Master File, and Produce a Master File Detailed Report

In this test run, two separate files of internal transactions are concatenated using the cataloged procedure EPMST20 which executes PMSTCON (EP0190), the internal transaction file concatenation program. The EIS/PS master file is updated with the concatenated transactions using the cataloged procedure EPFMM10 which executes PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program. Also, a detailed report of the updated master file is produced using the cataloged procedure EPRPM20 which executes PRPMSTR (EP0210), the master file detailed report program.

PMSTCON (EP0190) allows the user to concatenate two internal transaction files. The resulting output file must be sorted prior to its use in other EIS/PS programs.

The master file maintenance programs, PSRINTR (EP0110) and PFMMSTR (EP0120), were discussed in EIS/PS Test 4.

PRPMSTR (EP0210) produces a detailed report of the EIS/PS master (or answer) file. The master (or answer) file is listed with one point source record and its corresponding machine process records per page. Following each point source page, the corresponding permits and registration records are listed with one set of records per page. If a single plant has more than one point source or more than one set of permits and registration records, the plant/location information is repeated for each point source page and each permits and registration page. This program can be used to produce a detailed report of any file in EIS/PS master file format.

The run stream for this test run contains the JCL needed for concatenating internal transactions, updating the master file, and producing a detailed report. This run stream is shown in Figure PST9-1 and the sample output from this run stream is shown in Figure PST9-2.

The first cataloged procedure to be executed is EPMST20. Substitutable parameters are used to specify EPINTR1 (created in EIS/PS Test 7) and EPINTR2 (created in EIS/PS Test 8) as the input internal transaction files and EPINTR3 as the concatenated internal transaction file.

Next, the procedure EPFMM10 is executed. The input master file is EPMSTR3 (created in EIS/PS Test 6), the input internal transaction file is EPINTR3 (created in the previous step), and the newly updated master file is named EPMSTR4. The user must supply the DD (data definition) information for the option card file in the UPDATE step. The options used in this test are 80 and LIST.

EPRPM20 is the final cataloged procedure to be executed. EPMSTR4, the master file which was created in the previous step is used as the input master file.

```

//PSTEST04 JOB      (ACCOUNTING INFO)
//*
//*  CONCATENATE INTERNAL TRANSACTIONS, UPDATE THE MASTER FILE,
//*  AND PRODUCE A MASTER FILE DETAILED REPORT
//*
//TEST09A EXEC FPMST20,
//      INTRN1=EPINTR1,
//      INTRN2=EPINTR2,
//      CONCAT=EPINTR3
//*
//*  CONCATENATE THE INTERNAL TRANSACTIONS FROM
//*  TEST RUNS 7 AND 8
//*
//TEST09B EXEC FPFMM10,
//      OLDMSR=EPMSR3,
//      NEWMSR=EPMSR4,
//      INTRN=EPINTR3
//*
//*  UPDATE THE MASTER FILE FROM TEST 8 WITH THE
//*  INTERNAL TRANSACTIONS MERGED IN STEP A OF THIS
//*  TEST
//*
//UPDATE.OPTIONS DD *
RU      LIST
//TEST09C EXEC FPRPM20,
//      MSTRF11=EPMSR4
//*
//*  PRODUCE A DETAILED LIST OF THE MASTER FILE
//*  CREATED IN STEP A
//*

```

Figure PST9-1. Run Stream

PROGRAM NAME: PMSTCON (EP0190)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS FROM FILE 1: 43
 NUMBER OF INPUT TRANSACTIONS FROM FILE 2: 20
 TOTAL NUMBER OF INPUT TRANSACTIONS: 74
 NUMBER OF OUTPUT TRANSACTIONS: 74

PROGRAM NAME: PSRI:TR (EP0110)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 74
 NUMBER OF OUTPUT TRANSACTIONS: 74

Figure PST9-2. Sample Output

EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES

NUMBER OF INPUT TRANSACTIONS READ	74
NUMBER OF DISASTERS DETECTED	0
NUMBER OF ABORTS DETECTED	0
NUMBER OF ERRORS DETECTED	21
NUMBER OF CONDITIONALS DETECTED	0
NUMBER OF WARNINGS DETECTED	0
NUMBER OF TRANSACTIONS REJECTED	19
NUMBER OF POINT SOURCE FILE RECORDS READ IN	172
NUMBER OF POINT SOURCE FILE RECORDS WRITTEN	175

JJT

PROGRAM NAME: PRPMSTR (EP0210)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF SEGMENT 0 RECORDS PRINTED:	33
NUMBER OF SEGMENT 1 RECORDS PRINTED:	56
NUMBER OF SEGMENT 2 RECORDS PRINTED:	75
NUMBER OF SEGMENT 3 RECORDS PRINTED:	11

(Page 7 of 9)

Figure PST9-2 - continued. Sample Output

E11/PS MAJTER FILE DETAILED REPORT

STATE COUNTY AQCR PLANT ID
06 1960 053 0001

DATE 80 065
YEAR DAY
SEGMENT TYPE 0
CONTROL REGION 123
LOCAL CONTROL 04
PLANT ID PL-3175
CITY UTM ZONE OWNER 0012 12 P FRAUKE SMYTHE
CONTACT 5919544376
TELEPHONE 5919544376
PRINCIPAL PRODUCT 9 ENGINES

ESTABLISHMENT NAME AND ADDRESS
SMYTHE ENGINE COMPANY INC.
ZIP
NUMBER OF PROPERTY
EMPLOYEES 0025
AREA 00003.5
MAILING ADDRESS
RED OAKE, COLORADO
ZIP

P7 PLANT COMMENT
PLANT WILL START PRODUCTION 05/01/80
NEDS FLAG PLANT FLAG E I S F L A G S
P1 C P7 C

DATE 80 065
YEAR DAY
SEGMENT TYPE 1
POINT ID 01
SIC 1141 21
IPP 245.4
UTM COORDINATES
LATITUDE 71 21 21
DEG MIN SEC 051 51 52
ANNUAL THRUPUT
DEC MAR JUN SEP
HR/D D/WK WK/YR 02 03 03 01 10 5 47

BOILER SPACE S T A C K
CAPACITY HEAT 09.7 0090 01.0 0100 0000123
VELOCITY PLOME PKTS 2 81
CUMP YEAR MONTH DAY
YEAR MONTH DAY
E CAP REG 1 REG 2 REG 3
17 15 14 15 17

P7 POINT COMMENT
POLL 43101 ADDED 03/21/80
N E D S F L A G S POINT FLAG E I S F L A G S
P2 P3 P4 P5 PKCS P7 C
S A A A

NUMBER OF POLLUTANT CONTROL EQUIP ESTM JNTL
POLLUTANTS ID CCST PRI SEC EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD METHOD 13
03 CC 00001.00 022 041 93.5 0000100 0000200 0000300
TSP 00001.00 022 041 93.5 0000100 0000200 0000300
HC 01022.50 022 041 93.7 0001050 0002100 0003000
ESTM TEST EIS FLG
4 3 3 3 3 A

DATE 80 047
YEAR DAY
SEGMENT TYPE 2
POINT ID 01
SIC 4 03 001 01
IV 00
NBR 123 0.
RECC 00
FUEL MAX DESIGN SULFUR ASH
RATE CONTENT CONTENT CONF SOURCE
2 0003000 0004.000 5.78 02.3 00150 1 8

P7 SCC COMMENT
SCC LEFT COMMENT P7
SCC RIGHT P7 COMMENT
NEDS FLAG SCC FLAG E I S F L A G S
P6 S P7 S
S S S S

SOURCE DESCRIPTION
ENGINE
E F NUMBER OF POLLUTANT
SOURCE EMSN FCTR 04
EMISSION FACTOR
ACR 000000.000
CC 000000.000
TSP 22.34
ASH / FACTOR EMISSIONS EIS FLAG
SULFUR UNITS APPORT 23
2 1 0000000 S
2 000000.230 S
1 0000000 S

EIS/PS MASTER FILE DETAILED REPORT

STATE COUNTY AQCR PLANT ID
06 1900 053 0001

DATE	YEAR	DAY	SEGMENT	POINT	ID	SCC	SCC	SEG	BEC	NR	IV	IV	UNIT	DESIGN	RATE	SULFUR	ASH	HEAT	SOURCE
80	065	2	01	4	03	001	02	02	123	01	2	0003000	0004.000	0.23	01.2	00150	1	B	

P7 SCC COMMENT
POLLUTANT 22104 DELETED ON 03/21/80

SOURCE	DESCRIPTION	ENGINE	EXHAUST	FUMES	SCC	FLAG	E	I	S	F	L	A	G	S
22104														

EIS/PS MASTER FILE DETAILED REPORT

STATE COUNTY AQCR PLANT ID
06 1900 053 0001

SEGMENT POINT SEQ
TYPE ID NR

DATE	LINE	EIS	COMMENT
80	065	001	A THIS COMMENT ADDED 03/21/80
80	065	021	C PLANT NCA FOLLOWING GUIDELINES IS SET DOWN 12/14/79 WILL NOT BE CITED FOR VIOLATIONS
80	065	022	A THIS IS THE END OF THIS COMMENT

Figure PST9-2 - continued. Sample Output

EIS/PS Test 10

Retrieve a Standard Answer File Using a COBOL Retrieval and Produce a Formatted Dump of the Answer File

In this test run, a standard answer file is retrieved from the EIS/PS master file using the cataloged procedure EPRTM30. This procedure executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and the generated retrieval program, PRTGENR (EP0150). A formatted dump of the answer file is produced by using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

PRTLNGP (EP0140) is the first of two EIS/PS programs used to retrieve data from the EIS/PS master file. The second program is PRTGENR (EP0150), the program generated by PRTLNGP (EP0140).

PRTLNGP (EP0140) uses the retrieval skeleton program PRTSKEL, which is stored in a cataloged source library, and the user-supplied retrieval specification cards to build PRTGENR (EP0150), which is referred to as the generated retrieval program.

The retrieval specification cards consist of retrieval control cards and retrieval request cards. The control cards indicate the beginning and end of the retrieval specifications: a \$\$SELECT card indicates the beginning of the retrieval specifications and a \$\$END card indicates the end of the retrieval specifications. Retrieval request cards follow the \$\$SELECT card and can be written in either the EIS/PS retrieval language or in COBOL. These cards precisely identify the data to be retrieved from the master file.

The options allowed for PRTLNGP (EP0140) are entered on the first \$\$SELECT retrieval control card. The options specify whether the requests are written in the EIS/PS retrieval language or in COBOL, and the name of the COBOL copy member (if any). The format of the retrieval control card is illustrated in Figure PST10-1 and the definitions of the EIS/PS retrieval control card fields are provided in Figure PST10-2.

When the EIS/PS retrieval language is used, the user is allowed to select records from the EIS/PS master file based upon the value of specific fields in the master file records. The data names which can be used for these EIS/PS retrieval language requests are listed in Figure PST10-3. The EIS/PS retrieval language specifications are written in the format described in Figure PST10-4 and Figure PST10-5 provides definitions of the EIS/PS retrieval language specification fields. The EIS/PS retrieval specification load sheet is provided in Figure PST10-6.

If the COBOL language is used, the retrieval request cards are prepared according to COBOL rules for syntax and punctuation. Any retrieval that can be run using the EIS/PS retrieval language can also be run by specifying USER as the language keyword (see Figure PST10-1) and using the COBOL language, but nothing is gained in these retrievals by using COBOL when the EIS/PS retrieval language can be used. There are some retrievals which cannot be accomplished using the EIS/PS retrieval language. This is when COBOL retrievals become very beneficial. In addition to this test, Test 29 also demonstrates the use of COBOL retrievals.

PRTGENR (EP0150) is produced based on the retrieval specifications entered into PRTLNGP (EP0140). This generated retrieval program must be compiled and link edited before it is executed. When it is executed, it reads the EIS/PS master file and selects those records which satisfy the retrieval specifications that were entered into PRTLNGP (EP0140). If a record is selected, associated records will also be selected as follows:

Plant record field specified: If a plant record meets the retrieval criteria, it will be retrieved along with its associated point and SCC records. No comment records will be retrieved.

Point record field specified: If a point record qualifies, it will be retrieved with its associated plant and SCC records. Other points for the plant will be retrieved only if they qualify individually. No comment records will be retrieved.

SCC record field specified: If an SCC record qualifies, the associated plant, point, and all SCC's for the point will be retrieved. Other points for the plant will be retrieved only if they have associated

SCC's which meet the retrieval criteria. No comment records will be retrieved.

Comment record field specified: If a comment record qualifies, the associated plant, point, and all SCC records for the point will also be retrieved. Other points for the plant will be retrieved only if they have comment records and those comment records qualify.

The selected records are written to an output file which is referred to as an EIS/PS answer file. This file is only a subset of the master file; any changes made to the answer file during the retrieval process are not reflected in the master file. The answer file has the same format as the EIS/PS master file and may be used as input to any EIS/PS program which uses the master file as input.

For a description of PRPDUMP (EP0226), refer to Test 5.

The run stream for this test run contains the JCL needed for retrieving a standard answer file from an EIS/PS master file and producing a formatted dump of the answer file. This run stream is shown in Figure PST10-7 and the sample output produced by this test run is shown in Figure PST10-8.

The first cataloged procedure executed by this run stream is EPRTM30. Through the use of substitutable parameters, the input master file is specified as EPMSTR4 (created in Test 9) and the output answer file is named EPANS01. The user must supply the appropriate DD (data definition) information for the input retrieval specification card file in the COMPILE step.

The next cataloged procedure executed by this run stream is EPRPM30. A substitutable parameter is used to specify EPANS01 as the input master file.

<u>Record Position</u>	<u>Field Length</u>	<u>Description</u>
1 - 8	8	Card Type
9	1	Unused
10 - 13	4	Language Keyword
14 - 15	2	Unused
16 - 23	8	COBOL Member Name
24 - 80	57	Unused

Figure PST10-1. EIS/PS Retrieval Control Card

Card Type: Identifies the type of control card.

Valid Codes: \$\$SELECT - Specifies the beginning of a retrieval request.
\$\$END - Specifies the end of a retrieval request and must appear alone on the card.

Field Length: 8 characters

Language Keyword: Identifies the type of retrieval language to be used.

Valid Codes: USER - Indicates that the retrieval specifications will be COBOL language statements.
blank - Indicates that EIS/PS retrieval language specifications will be used.

Field Length: 4 characters

COBOL Member Name: Indicates the name of a COBOL copy member residing in a partitioned data set and containing COBOL language statements. A copy member can be used for USER retrievals.

Valid Codes: blank - Specifies that the COBOL retrieval statements will be placed after the \$\$SELECT card.

member name - Specifies the name of the member of an external source library where the COBOL retrieval statements reside. These COBOL statements must have been stored in the external source library under this member name prior to the execution of the retrieval.

Field Length: 8 characters

Figure PST10-2. Definition of EIS/PS Retrieval Control Card Fields

Valid Data Names for Retrieval (Plant Data)

The following list of names from the plant record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
AQCR	3	RECORD-0-DAY	3
CITY	4	RECORD-0-YEAR	2
CONTACT	15	SEG-0-ID	1
COUNTY	4	STATE	2
DATE-OF-0-RECORD	5	TELEPHONE	10
LOCAL-CONTROL	2	USER-CONTROL-REGION	3
NUMBER-OF-EMPLOYEES	4	USER-PLANT-ID	12
OWNER	1	UTM-ZONE	2
PLANT-ID	4		
PRINCIPAL-PRODUCT	10		
PROPERTY-AREA	6		

The following two names from the plant record can be referenced only in COBOL language specifications:

ESTABLISHMENT
MAILING-ADDRESS

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Figure PST10-3. Valid Retrieval Data Names

Valid Data Names for Retrieval (Point Data)

The following list of names from the point record can be referenced in either EIS/PS retrieval language specification or COBOL language specifications:

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
ANNUAL-THRUPUT	8	LATITUDE-DEGREE	2	SCHEDULE-MONTH	2
BOILER-DESIGN-CAPACITY	5	LATITUDE-MINUTE	2	SCHEDULE-YEAR	2
COMPLIANCE-SCHEDULE	4	LATITUDE-SECOND	2	SEG-1-ID	1
COMPLIANCE-STATUS	1	LONGITUDE	7	SEP-NOV	2
COMPLIANCE-STATUS-UPDATE	6	LONGITUDE-DEGREE	2	SIC	4
CONTROL-REGULATIONS	12	LONGITUDE-MINUTE	2	SPACE-HEAT	3
DATE-OF-1-RECORD	5	LONGITUDE-SECOND	2	STATUS-DAY	2
DAY-WEEK	1	MAR-MAY	2	STATUS-MONTH	2
DEC-FEB	2	NBR-OF-POLLUTANTS	2	STATUS-YEAR	2
DIAMETER	3	NEDS-POINT-ID	2	TEMPERATURE	4
ECAP	1	NORMAL-OPERATING	5	USER-POINT-ID	3
FLOW-RATE	7	PLUME	4	UTM-COORDINATES	9
HEIGHT	4	POINTS-PER-STACK	4	VELOCITY	5
HORIZONTAL	4	RECORD-1-DAY	3	VERTICAL	5
HOURS-DAY	2	RECORD-1-YEAR	2	WEEK-YEAR	2
IPP	2	REG-1	4		
JUN-AUG	2	REG-2	4		
LATITUDE	6	REG-3	4		

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Figure PST10-3 - continued. Valid Retrieval Data Names

Valid Data Names for Retrieval (Repeating Data)

The following list of names from the repeating portion of the point record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
ALLOWABLE	7	ESTIMATION-METHOD	1
CNTL-EQUIP-COST	7	MEASURED	7
CONTROL-EQUIPMENT	6	POLLUTANT-ID	5
		POTENTIAL	7
EMISSION-UNITS	1	PRIMARY-CNTL	3
EST-CONTROL-EFF	3	SECONDARY-CNTL	3
ESTIMATES	7	TEST-METHOD	1

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Figure PST10-3 - continued. Valid Retrieval Data Names

Valid Data Names for Retrieval (SCC Data)

The following list of names from the SCC record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
ASH-CONTENT	3	RECORD-2-DAY	2
BEC	5	SCC	8
BEC-ID	2	SCC-I	1
BEC-NUMBER	3	SCC-II	2
CONFIDENTIALITY	1	SCC-III	3
DATE-OF-2-RECORD	5	SCC-IV	2
EMISSION-FACTOR-SOURCE	1	SCC-SEQ-NBR	2
FUEL-PROCESS-RATE	7	SEG-2-ID	1
FUEL-UNITS	1	SEG-2-POINT-ID	2
HEAT-CONTENT	5	SOURCE-CODE	1
MAX-DESIGN-RATE	7	SOURCE-DESCRIPTION	25
NUMBER-OF-EF	2	SULFUR-CONTENT	3
RECORD-2-YEAR	2		

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Figure PST10-3-c - continued. Valid Retrieval Data Names

Valid Data Names for Retrieval (Comment Data)

The following list of names from the comment record can be referenced in either EIS/PS retrieval language specifications or COBOL language specifications:

<u>Data Name</u>	<u>Field Length</u>
DATE-OF-3-RECORD	5
LINE-NUMBER	3
RECORD-3-DAY	3
RECORD-3-YEAR	2
PNR-SEQ-NBR	2
SEG-3-ID	1
SEG-3-POINT-ID	2

The following three names from the comment record can be referenced only in COBOL language specifications:

COMMENT-L	COMMENTS
COMMENT-R	

<u>Record Position</u>	<u>Field Length</u>	<u>Description</u>
1 - 31	31	Subject Name
32	1	Unused
33	1	Negation Flag
34	1	Unused
35	1	Relational Operator
36	1	Unused
37 - 67	31	Object Name
68	1	Unused
69 - 71	3	Boolean Operator
72 - 80	9	Unused

Figure PST10-4. Format for EIS/PS Retrieval Language Specifications

Subject Name: Specifies the name of the field in the EIS/PS master file record to be compared with the literal or the master file field name specified by the object name.

Valid Codes: Only those fields listed in Figure PST10-3 can be used.
The spelling, including hyphen, must match exactly.

Field Length: 31 characters

Negation Flag: Indicates whether or not the Boolean NOT condition is in effect.

Valid Codes: N - Boolean NOT is in effect.
blank - Boolean NOT is not in effect.

Field Length: 1 character

Relational Operator: Indicates the relationship to be tested between the subject name and the object name.

Valid Codes: = - equal
< - less than
> - greater than

Field Length: 1 character

Object Name: A literal to be compared against the master file field specified by the subject name, or the name of a master file field (not in apostrophes) to be compared against the master file field specified by the subject name (e.g., subject name = object name).

Valid Codes: If a literal is used, it must be enclosed in apostrophes. The length of the literal must be exactly the same as the field length of the data name being compared (see Figure PST10-3). If the

name of a field from the master file is used, it must match exactly one of the names listed in Figure PST10-3. However, it must not be enclosed in apostrophes.

Field Length: 31 characters

Boolean Operator: Identifies the type of connector used between the relationship specified on this control card and that specified on the next card.

Valid Codes: AND - Indicates that both relationships must be true in order for the entire relationship to be true.

OR - Indicates that if either relationship is true, the entire relationship is true.

blank - Indicates that there is no connector, and therefore, that there is no further specification.

Field Length: 3 characters

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Figure PST10-5 - continued. Definition of EIS/PS Retrieval Language
Specification Fields

BY _____
DATE _____
PAGE _____ OF _____

PAGE _____ OF _____

	COPY MEMBER NAME	23
16		

[illegible][illegible][illegible]

	1	5	
			\$ \$ E N D

154

```

//PSTEST10 JOB      (ACCOUNTING INFO)
/**
/**  RETRIEVE AN ANSWER FILE USING A COBOL RETRIEVAL AND PRODUCE
/**  A FORMATTED DUMP OF THE ANSWER FILE
/**
//TEST10A EXEC EPRM30,
//      MSTRFIL=EPMSTR4,
//      ANSWRFL=EPANS01
/**
/**  RETRIEVE THE ANSWER FILE FROM THE MASTER FILE PRODUCED IN
/**  TEST 9 USING IN-LINE COBOL SPECIFICATIONS
/**
//COMPILE.INPUT DD *
*$$SELECT USER
      QUALIFY-RECORDS.
      IF ESTABLISHMENT IS EQUAL TO 'HANSON' OR
      MAILING-ADDRESS IS EQUAL TO 'RED OAKE' OR
      (COMMENT-L IS NOT EQUAL TO ' ' AND
      LINE-NUMBER IS EQUAL TO '001')
      MOVE TRUE TO QUALIFICATION-ACHIEVED-SW.
      QUALIFY-RECORDS-END.
      EXIT.
      SET-QUALIFICATION-LEVEL SECTION.
      SET-QUAL-LEVEL.
      MOVE REQUIRE-3-QUAL TO QUALIFICATION-REQUIRED.
      SET-QUAL-LEVEL-END.
      EXIT.
*$$END
//TEST10R EXEC EPRM30,
//      MSTRFIL=EPANS01
/**
/**  PRODUCE THE FORMATTED DUMP OF THE ANSWER FILE
/**

```

Figure PST10-7. Run Stream

PROGRAM NAME: PRTNGP (EP0140)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

INPUT (CONTROL CARDS)

\$\$\$SELECT USER

QUALIFY-RECORDS.

IF ESTABLISHMENT IS EQUAL TO 'HANSON' OR
MAILING-ADDRESS IS EQUAL TO 'RED OAKE' OR
(COMMENT-L IS NOT EQUAL TO ' ' AND
LINE-NUMBER IS EQUAL TO '001')

MOVE TRUE TO QUALIFICATION-ACHIEVED-SW.

QUALIFY-RECORDS-END.

EXIT.

SET-QUALIFICATION-LEVEL SECTION.

SET-QUAL-LEVEL.

MOVE REQUIRE-3-QUAL TO QUALIFICATION-REQUIRED.

SET-QUAL-LEVEL-END.

EXIT.

\$\$\$END

NUMBER OF CONTROL CARDS READ:	15
NUMBER OF ERRORS DETECTED:	0

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Figure PST10-8. Sample Output

PROGRAM NAME: PRIGENR (EP0150)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ:	175
NUMBER OF ANSWER FILE RECORDS WRITTEN:	4
NUMBER OF ERRORS DETECTED:	0

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Figure PST10-8 - continued. Sample Output

PROGRAM NAME: PRPUUMP (EP0220)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

PLANT (SEGMENT 0) RECORD COUNT:	2
POINT SOURCE (SEGMENT 1) RECORD COUNT:	2
POINT SOURCE POLLUTANT COUNT:	8
MACHINE PROCESS (SEGMENT 2) RECORD COUNT:	3
MACHINE PROCESS POLLUTANT COUNT:	13
PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT:	2
AVERAGE NUMBER OF POINT SOURCES PER PLANT:	1.0
AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE:	4.0
AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE:	1.5
AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS:	4.3
AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE:	1.0
TOTAL NUMBER OF RECORDS READ:	9
NUMBER OF ERRORS DETECTED:	0
NUMBER OF PAGES IN REPORT:	2

(Page 4 of 4)

EIS/PS Test 11

Submit Annual Report in EIS/PS Format

In this test run, EIS/PS master file internal transactions are generated from the EIS/PS master file in order to submit the data that has been added, changed, or deleted since the last execution of PRPENTR (EP0200) to the appropriate agency. The cataloged procedure EPRPM10 is used to execute PRPENTR (EP0200), the annual report program.

In Test 6 PRPENTR (EP0200) was used to submit an annual report to NEDS by generating NEDS transactions. In this test EIS/PS internal transactions are generated by the annual report program. This is accomplished by specifying POINT on the option card. For a description of PRPENTR (EP0200) refer to Test 6.

The run stream for this test run contains the JCL needed for submitting EIS/PS master file data to the appropriate agency by generating EIS/PS internal transactions. This run stream is shown in Figure PST11-1.

The cataloged procedure executed by this run stream is EPRPM10. By using substitutable parameters, the input master file is specified as EPMSTR4 (created in Test 9), the output master file is named EPMSTR5, and the output EIS/PS internal transaction file is named EPPSTRN. The user must supply the DD (data definition) information for the option card file in the REPORT step. The options specified in this test run are POINT, NOFLAGW, and NOLIST. Notice that when EIS/PS internal transactions are being generated the NEDS transaction file EPSNDTR must be a dummy file in the REPORT step. The sample output produced by this run stream is shown in Figure PST11-2.

```

//PSTEST11 JOB      (ACCOUNTING INFO)
//*
/**      SUBMIT AN ANNUAL REPORT IN EIS/PS MODE
/**
//TEST11A EXFC LPRPM10,
//      OLDSTR=EPMSTR4,
//      NEWSTR=EPMSTR5,
//      TRANFL2=EPPSTRN
/**
/**      PRODUCE EIS/PS INTERNAL TRANSACTIONS FOR THE
/**      ANNUAL REPORT
/**
//REPORT.EPSNDTR DD DUMMY
//REPORT.OPTIONS DD *
PUINT NOFLAGW NOLIST

```

EIS/PS ANNUAL REPORT PRUGHAM - DIAGNOSTIC REPORT

PROGRAM NAME: PKPENIR (EP0200)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD: POINT NOFLAGW NOLIST

INPUT EIS/PS MASTER FILE COUNT:	175
OUTPUT EIS/PS MASTER FILE COUNT:	162
RECORDS DELETED FROM MASTER FILE:	13
POINT OUTPUT TRANSACTIONS COUNT:	45
ADD TRANSACTIONS COUNT:	7
CHANGE TRANSACTIONS COUNT:	32
DELETE TRANSACTIONS COUNT:	6
NUMBER OF ERROR MESSAGES:	0
NUMBER OF WARNING MESSAGES:	0
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

Figure PST11-2. Sample Output

EIS/PS Test 12

Produce the Master File Emissions Projection

In this test an emissions projection is made on the EIS/PS master file using the cataloged procedure EPRPM50 which executes PRPEPRJ (EP0250), the master file emissions projection program.

PRPEPRJ (EP0250) calculates projected emissions for the five criteria pollutants (TSP, SO₂, NO_x, HC and CO) using the EIS/PS master file as input and produces an emissions projection file in master file format containing the projected emissions. The calculations made are based on the projection information entered by control cards. Depending on the type of control cards supplied by the user, projections may be made by SCC, by plant/point combinations, or for all records (by a fixed percentage).

The output projection file contains all segment 0, segment 1, and segment 2 records from the input master file. The segment 0 records are output unchanged. The projected value of the emissions estimate is changed in any segment 1 record which meets the specifications set forth in the control cards; otherwise, the emissions are the same as those in the input file. If the SCC option (option 2) has been specified, information from the SCC control cards will replace the incoming information from the input master file in the segment 1 and segment 2 records for the selected SCC's.

Whenever projected values are calculated for emissions, the uncontrolled emissions (those emissions that would occur if their associated control device efficiencies were zero) are calculated. The values for the uncontrolled emissions are stored in the corresponding EMISSIONS-POTENTIAL fields of the output segment 1 records.

A segment 3 record is generated for each plant (segment 0) in which emissions have been projected. If no emissions were changed for a plant, a check is made on the segment 3 records. If a segment 3 record was produced by an earlier run on the emissions projection program, it will be output; otherwise, no segment 3 record will be written to the projection file for that plant. The generated segment 3 record indicates which type of projection was

run. In addition, header records with keys containing all zeroes are output to indicate that the file was created by the emissions projection program.

When a point has been selected for projection, calculations are performed on all specified SCC's related to that point regardless of the estimation method. Therefore, it is possible that the calculated values may differ greatly from the present values if the present estimation method is not 3. If the control device efficiently is missing from the input file record, a value of zero will be used and the calculation will be performed.

There are three types of control cards available for use with the emissions projection program. A type-1 control card will cause projected emissions to be calculated for the five criteria pollutants associated with each point in every plant in the master file. These projected emissions are a fixed percentage increase or decrease of the emissions presently in the input master file. The user must code ALL in columns 1 through 3 of the control card. If the projection is to be a fixed percentage decrease, a minus sign must be coded in column 5; otherwise, the projection will be a fixed percentage increase. The percentage of change is coded in columns 6 through 8 and can be any value from 000 to 899; however, the value must not be greater than 099 if the sign is negative. Finally, a '1' must be coded in column 80 to indicate the card type.

Type-2 control cards allow the user to modify the fuel process rate, ash and sulfur content, and control device efficiency for selected SCC's. Modifications can be made to these data fields by coding actual values or by specifying change percentages on the control card. However, in no case is the resultant percentage allowed to be less than 0 for these fields; and, the calculated values for ash content, sulfur content, and control device efficiency must not be greater than 99.9, 9.99, and .999, respectively. If any one of these values exceeds its maximum, that field will be left unchanged and no calculations will be performed. Also, coding an actual value for a field excludes the possibility of coding a change for that field. Similarly, to use a change field on the control card, one must not code an actual value for that same element. The SCC number must be coded in columns 1 through 8 of the card. To indicate the card type, a '2' must be coded in column 80.

To replace the fuel process rate in the corresponding input segment 2 record with a new value, code the value in columns 10 through 16. To change the fuel process rate by a percentage, code the percentage in columns 19 through 21. The format for this field contains an implied decimal point with one digit to the left and two digits to the right. Therefore, the user should include any necessary leading or trailing zeroes, but should not code a decimal point. If the change is a decrease, a minus sign must be coded in column 18.

To replace the ash content in the corresponding input segment 2 record with a new value, code the value in columns 23 through 25 of the control card. To change the ash content by adding a value, code the value in columns 28 through 30. If the change is a decrease, a minus sign must be coded in column 27. The formats for both the actual value field and the change field have implied decimal points with two digits to the left and one digit to the right. Therefore, the user should include any necessary leading or trailing zeroes, but should not code a decimal point.

To replace the sulfur content in the corresponding input segment 2 record with a new value, code the value in columns 32 through 34 of the control card. To change the sulfur content by adding a value, code the value in columns 37 through 39. If the change is a decrease, code a minus sign in column 36. The formats for both the actual value field and the change field have implied decimal points with one digit to the left and two digits to the right. Therefore, the user should include any necessary leading or trailing zeroes, but should not code a decimal point.

To replace the control device efficiency in the corresponding input segment 1 record with a new value, code the value in columns 41 through 43 of the control card. To change the control device efficiency by adding a value, code the value in columns 46 through 48. If the change is a decrease, code a minus sign in column 45. The formats for both the actual value field and the change field contain implied decimal points with all three digits to the right. Therefore the user should include any necessary leading or trailing zeroes, but should not code a decimal point. Since there is a control device

efficiency for each pollutant in a segment 1 record, the control device efficiencies for all criteria pollutants in that record will be replaced by the value on the control card. In the case where a change is indicated on the control card, the control device efficiencies will be modified by that value.

Type-3 control cards allow the user to change the emissions by a fixed percentage increase or decrease for selected plant/point combinations. To specify a selected plant/point combination, the user must code the state code in columns 1 and 2, the county code in columns 3 through 6, the AQCR code in columns 7 through 9, the plant code in columns 10 through 13, and the point code in columns 14 and 15. The point identification used on the control card is the NEDS point identification. The fixed percentage change is coded in columns 18 through 20 and has the same value limits as the fixed percentage on a type-1 control card. If the change is a decrease, a minus sign must be coded in column 17. The user can shut down a point completely by coding 'OFF' in columns 18 through 20. When this action is taken, the emissions estimates for that point are changed to zero and no projected emissions are calculated. A '3' must be coded in column 80 to indicate the card type.

Only one type of control card can be entered in a single run. One type-1 (fixed change - all plants) control card can be entered. A maximum of 50 type-2 (SCC specific) control cards, each with a different SCC number, can be entered. A maximum of 50 type-3 (plant/point) control cards, each with a different plant/point combination, can be entered.

PRPEPRJ (EP0250) also produces a summary report which shows the emissions by point for the current five criteria pollutants. Both controlled and potential amounts are listed for the present and projected emissions. The summary report has page breaks on plant, county, state and AQCR. At each of these breaks totals are printed, unless only one entry has occurred since the last break. If only one state and AQCR occur in the master file, the totals printed at the end of the report will be for the last county and then the entire file since the emissions totals will be the same for the state and AQCR. Total emissions for the entire file are also printed.

The run stream for this test run contains the JCL needed to produce an emissions projection of the master file. This run stream is shown in Figure PST12-1.

The cataloged procedure executed by this run stream is EPRPM50. Substitutable parameters are used to specify the input master file as EPMSTR5 (created in Test 11) and the projected master file as PRJFIL1. The DD (data definition) information for the option card file in the PROJECT step must be supplied by the user. The options used in this test are ALL and +010. Refer to Figure PST12-2 for the sample output produced by this test run.


```

//PSTEST12 JOB      (ACCOUNTING INFO)
//*
//*   PRODUCE THE MASTER FILE EMISSIONS PROJECTION
//*
//TEST12A EXEC EPRPK50,
//      MSTRFIL=FPMSTR5,
//      PROJFIL=PRJFIL1
//*
//*   GENERATE EMISSIONS PROJECTIONS FOR THE MASTER FILE
//*   CREATED IN TEST 11
//*
//PROJECT.OPTION DD *
ALL +010

```

1

Figure PST12-1. Run Stream

EIS/PS MASTER FILE EMISSIONS PROJECTION PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PHPEPRJ (EP0250)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD	FIXED OPTION USED - ALL PLANTS	OPTION TYPE 1
Z INC		
ALL +010		

OPTION COUNT	VALID OPTIONS	1
--------------	---------------	---

```

INPUT RECORD COUNT:      162
  SEGMENT 0:             32
  SEGMENT 1:             53
  SEGMENT 2:             69
  SEGMENT 3:              8
OUTPUT RECORD COUNT:    186
  SEGMENT 0:             33
  SEGMENT 1:             54
  SEGMENT 2:             69
  SEGMENT 3:             30
NUMBER OF CONDITIONAL MESSAGES: 0
NUMBER OF ERROR MESSAGES:      0
NUMBER OF ABORT MESSAGES:      0

```

COUNT OF POLLUTANT IDS BY EST METHOD	METHOD	NUMBER UF POLLUTANT IDS
	0	36
	1	9
	2	6
	3	143
	4	6
	5	5
	6	0
	7	15
	OTHER	32

EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

-----BASELINE MASTER FILE-----						EMISSIONS - TONS PER YEAR		-----PROJECTED FILE # 1-----	
STATE	COUNTY	AGCR	PLANT	PPOINT	POLL-ID	CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL
06	1960	053	0001	01	TSP-11101	100	6,667	110	7,333
					CO -42101	100	6,667	110	7,333
					SU2-42401	0	0	0	0
					NOX-42602	0	0	0	0
06	1960	053	0001	10	HC -43101	1,050	11,290	1,155	12,419
					TSP-11101	100	6,667	110	7,333
					CU -42101	100	6,667	110	7,333
					SU2-42401	0	0	0	0
06	1960	053	0001		NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
					TSP-11101	200	13,334	220	14,666
					CU -42101	200	13,334	220	14,666
06	1960	053	0041	01	SU2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	1,050	11,290	1,155	12,419
					TSP-11101	0	0	0	0
06	1960	053	0041		CU -42101	0	0	0	0
					SU2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	230	15,333	253	16,867
06	1960	053	0041	02	TSP-11101	51	3,400	56	3,733
					CO -42101	230	15,333	253	16,867
					SU2-42401	0	0	0	0
					NOX-42602	0	0	0	0
06	1960	053	0041		HC -43101	0	0	0	0
					TSP-11101	51	3,400	56	3,733
					CU -42101	230	15,333	253	16,867
					SU2-42401	0	0	0	0
06	1960	053	0041		NOX-42602	0	0	0	0
					HC -43101	230	15,333	253	16,867
					TSP-11101	251	16,734	276	18,399
					CU -42101	430	28,667	473	31,533
06	1960	053			SU2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	1,280	26,623	1,408	29,286
					TSP-11101	251	16,734	276	18,399
06	1960	053	AGW1	10	CU -42101	430	28,667	473	31,533
					SU2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	1,280	26,623	1,408	29,286
06	2004	053	AGW1	10	TSP-11101	100	6,667	110	7,333
					CU -42101	100	6,667	110	7,333
					SU2-42401	0	0	0	0
					NOX-42602	0	0	0	0
06	2004	053	AGW1	10	HC -43101	0	0	0	0
					TSP-11101	100	6,667	110	7,333
					CU -42101	100	6,667	110	7,333
					SU2-42401	0	0	0	0
06	2004	053	AGW1	10	NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
					TSP-11101	100	6,667	110	7,333
					CU -42101	100	6,667	110	7,333

EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

STATE	COUNTY	ADDR	PLANT	POINT	POLL-ID	EMISSIONS - TONS PER YEAR		PROJECTED FILE #	POTENTIAL
						BASELINE	CONTROLLED		
TOTAL						1,537	32,065	1,689	35,291
					TSP-11101	655	42,026	719	46,225
					CU -42101	1,565	1,565	1,724	1,724
					SU2-42401	323	323	354	354
					NUX-42602	1,293	26,735	1,421	29,396
					HC -43101				

EIS/PS Test 13

Retrieve an Answer File Using an EIS/PS Retrieval

In this test run, a retrieval is performed on the master file. To accomplish this, the cataloged procedure EPRTM10 is used first to execute the retrieval language processor program, PRTLNGP (EP0140); the COBOL compiler; and the linkage editor to create the generated retrieval program, PRTGENR (EP0150). Then, the cataloged procedure EPRTM20 is used to execute PRTGENR (EP0150). The advantage of using these separate procedures instead of the single retrieval cataloged procedure, EPRTM30, is that the retrieval program does not have to be regenerated from the retrieval specifications each time a new master file is to be used.

For a discussion of the retrieval programs, PRTLNGP (EP0140) and PRTGENR (EP0150), refer to Test 10.

The run stream for this test run contains the JCL needed to generate an answer file using the EIS/PS retrieval language. This run stream is shown in Figure PST13-1. Sample output from this run stream is shown in Figure PST13-2.

First, the cataloged procedure EPRTM10 is executed to generate the retrieval program load module which is named PRTPROG by the use of a substitutable parameter. The user must supply the DD (data definition) information for the retrieval specification card file in the COMPILE step.

Next, cataloged procedure EPRTM20 is used to execute the retrieval program load module, PRTPROG. The input master file used is EPMSTR5 (created in Test 11) and the output answer file produced is named EPANS02. The load module and the two files are all specified using substitutable parameters.

```

//PSTEST13 JOB      (ACCOUNTING INFO)
/**
/**  RETRIEVE AN ANSWER FILE USING TWO PROCEDURES
/**
//TEST113A EXEC EPRTM10,
//      PGMSAVE=PRTPRUG
/**
/**  GENERATE THE RETRIEVAL LOAD MODULE
/**
//COMPILE.INPUT DD *
*$$SELECT
AWCR                      = '240'                      AND
POLLUTANT-ID              = POLLUTANT-ID                AND
(POLLUTANT-ID             = '42602'                     OR
POLLUTANT-ID             = '11101')
$$END
//TEST113B EXEC EPRTM20,
//      PROGRAM=PRTPPOR,
//      MSTRFIL=EPMSR5,
//      ANSWRFI=EPANS02
/**
/**  RETRIEVE AN ANSWER FILE USING THE GENERATED LOAD
/**  MODULE IN STEP A AND THE MASTER FILE FROM TEST 11.
/**

```

Figure PST13-1. Run Stream

PROGRAM NAME: PHTLNGP (EP0140)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

INPUT (CONTROL CARDS)

```

$$SELECT
AQCR                = '240'          AND
POLLUTANT-ID        = POLLUTANT-ID   AND
(POLLUTANT-ID       = '42602'        OR
POLLUTANT-ID        = '11101')
$$END
  
```

NUMBER OF CONTROL CARDS READ: 6
 NUMBER OF ERRORS DETECTED: 0

PROGRAM NAME: PHTGENR (EP0150)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ: 162
 NUMBER OF ANSWER FILE RECORDS WRITTEN: 40
 NUMBER OF ERRORS DETECTED: 0

Figure PST13-2. Sample Output

EIS/PS Test 14

Produce a Detailed Report of an Answer File

In this test run, a detailed report of an answer file is generated using the cataloged procedure EPRPM20. This procedure executes PRPMSTR (EP0210), the master file detailed report program.

For a description of PRPMSTR (EP0210) refer to EIS/PS Test 9.

The run stream for this test run contains the JCL needed to produce a detailed report of a master or answer file. The run stream is shown in Figure PST14-1.

The cataloged procedure executed by the run stream is EPRPM20. The input file is EPANS02 (created in EIS/PS Test 13) as specified by a substitutable parameter. For sample output from this test run see Figure PST14-2.


```
//PSTES114 JOB      (ACCOUNTING INFO)
//*
//*   PRODUCE A DETAILED REPORT OF AN ANSWER FILE
//*
//TES114A EXEC EPRPM20,
//      MSTRFIL=FPANS02
//*
//*   WRITE THE DETAILED REPORT OF THE ANSWER FILE THAT
//*   WAS CREATED IN TEST 13
//*
```

Figure PST14-1. Run Stream

EIS/PS MASTER FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRPMSTR (EP0210)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF SEGMENT 0 RECORDS PRINTED:	11
NUMBER OF SEGMENT 1 RECORDS PRINTED:	15
NUMBER OF SEGMENT 2 RECORDS PRINTED:	14
NUMBER OF SEGMENT 3 RECORDS PRINTED:	0

EIS/PS MASTER FILE DETAILED REPORT

PAGE 1

STATE COUNTY AUCK PLANT ID
08 0008 240 8002

DATE SEGMENT CONTROL LOCAL PLANT ID CITY UTM ZONE OWNER CONTACT TELEPHONE PRINCIPAL
YEAR DAY TYPE REGION CONTROL ID 18 P R.A.LJONES PRODUCT
77 000 0

ESTABLISHMENT NAME AND ADDRESS ZIP NUMBER OF PROPERTY AREA MAILING ADDRESS ZIP
GENERAL INC TAYLOR

P7 PLANT COMMENT NEDS FLAG PLANT FLAG E I S F L A G S
P1 S P7 S 1 2 3 4 S

DATE SEGMENT POINT USER UTM COORDINATES LATITUDE LONGITUDE ANNUAL THRUPUT NORMAL OPERATING
YEAR DAY TYPE ID POINT ID SIC IPP HORIZONTAL VERTICAL DEG MIN SEC DEG MIN SEC DEC MAR JUN SEP HR/D D/MK WK/YR
77 000 1 01 0142 121.8 0042.9 0000 0000 77 10 31 1 25 25 25 08 6 52

ROILER SPACE S T A C K D A T A COMP SCHED COMP STATUS YEAR MONTH DAY ECAP REG 1 REG 2 REG 3
CAPACITY HEAT HEIGHT DIAM TEMP FLUM RATE VELOCITY PLUME PNTS CUMP YEAR MONTH 77 10 31 1 25 25 25 08 6 52
00002 00.0 0007 00.8 0080 0000360 0000 0000 1 77 10 31 1

P7 POINT COMMENT NEDS F L A G S POINT FLAG E I S F L A G S
P2 P3 P4 P5 PWCS P7 S S S S 11 12 14 S

NUMBER OF POLLUTANT CONTROL EQUIP ESTM CNTL E M I S S I D N S ESTM TEST EIS FLG
POLLUTANTS ID PRI SEC EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD 13
05 TSP 000 000 00.0 0000000 0000001 3 S
NOX 000 000 00.0 0000000 0000000 3 S
CO 000 000 00.0 0000000 0000000 3 S
SO2 000 000 00.0 0000001 0000000 3 S
HC 021 000 99.0 0000000 0000000 3 S

DATE SEGMENT POINT SCC SCC SEG BEC FUEL - MAX DESIGN SULFUR ASH HEAT
YEAR DAY TYPE ID 1 11 111 IV NBR MBR ID UNITS PROCESS RATE CONTENT CONTENT CONF SOURCE
80 060 2 01 1 02 005 03 00 0000017 0000.010 0.25 00.0 00108 1 B

P7 SCC COMMENT NEDS FLAG SCC FLAG E I S F L A G S
P6 S P7 S 21 22 24 25 S

SOURCE DESCRIPTION E F SOURCE EMSN FCTH POLLUTANT EMISSION FACTOR ASH / FACTOR EMISSIONS EIS FLAG
F 05 HC 000001.000 0000000 23 S
NOX 000022.000 0000000 S
SU2 000144.000 S 0000000 S
CO 000005.000 0000000 S

(Page 2 of 2)

Figure PST14-2 - continued. Sample Output

EIS/PS Test 15

Produce a Sorted File Using the Sort Generator

In this test run a sorted file is produced from the master file using cataloged procedure EPSRM30 which executes PSRLNGP (EP0160), the sort language processor program; the COBOL compiler; the linkage editor; and PSRGENR (EP0170), the generated sort program.

PSRLNGP (EP0160) is the first of two EIS/PS programs used to sort the EIS/PS master file. The second program is PSRGENR (EP0170), the program generated by PSRLNGP (EP0160).

PSRLNGP (EP0160) uses the retrieval skeleton program PSRSKEL, which is stored in a cataloged source library, and the user-supplied sort specification cards to build PSRGENR (EP0170), which is referred to as the generated retrieval program.

The sort specification cards consist of sort control cards and sort request cards. The format of the sort specification cards is illustrated in Figure PST15-1. The control cards indicate the beginning and end of the sort specifications: a \$\$SORT card indicates the beginning of the sort specifications and a \$\$END card indicates the end of the sort specifications. Sort request cards follow the \$\$SORT card. No more than 11 sort request cards can be used, and the sum of the lengths of all the fields in these requests must not exceed 234 characters. Only data names of fields from the plant, point, and fixed portion of the SCC records can be selected in the sort specifications. Figure PST15-2 lists the valid data names and the lengths of the fields.

PSRGENR (EP0170) is produced based on the sort specifications entered into PSRLNGP (EP0160). This generated sort program must be compiled and link edited before it is executed. When it is executed, it reads the EIS/PS master file and produces a file of sorted records. The records contained in the output file will depend on the specified sort fields and their corresponding record type. All records in the sorted answer file will be in master file format, but the number of records will vary as follows:

Plant record sort fields: Each plant record will be accompanied by its associated point and SCC records. No new records are created.

Point record (fixed portion) sort fields: Each point record will be preceded by a copy of its associated plant record and followed by its associated SCC records. Thus, a new plant record is created for every point record.

Point record (repeating section) sort fields: A point record will be created for each pollutant in the repeating section of the original point record. Each of these new records will contain all of the information (i.e., all repeating sections) that was present in the original record. In addition, there will be one plant record and all the associated SCC records for each of the new point records. Thus, plant, point, and SCC records are created.

SCC record (fixed portion) sort fields: For each SCC record, a copy of the associated plant and point records accompany it. That is, both plant and point records are created.

Sort fields from the repeating section of the point record and the fixed portion of the SCC record: Records will be created to allow sets of one plant record, one point record, and one SCC record. There will be a set for each repeating section or pollutant in the point record. Thus, all three types of records can be created.

The sort order of the records in the answer file will be dependent on the order in which the sort request cards are input to PSRLNGP (EP0160). The first sort request card specifies the highest subfield of the sort key (most significant), the next card specifies the next lower subfield, . . . and the last card specifies the lowest subfield (least significant).

Two things should be noted about the sorted answer file. First, the sorted answer file contains no comment records. Second, as records are created, the size of the sorted answer file may be much greater than the original file. As an example, consider one plant with two points, each having 5 pollutants, and with 4 SCC records for each point. In the original file, there would be 11 records. The sorted answer file would then contain 11-120 records as outlined below:

11 records if only plant record fields are used for sorting.

12 records if the sort fields come from the fixed portion of the point record. An additional plant record is created so that each point record has its own plant record.

60 records if the sort fields come from the repeating section of the point record. Each of the 5 pollutants for a point will now have one point, one plant and 4 SCC records (a total of 6 records), and there are 10 pollutants in all.

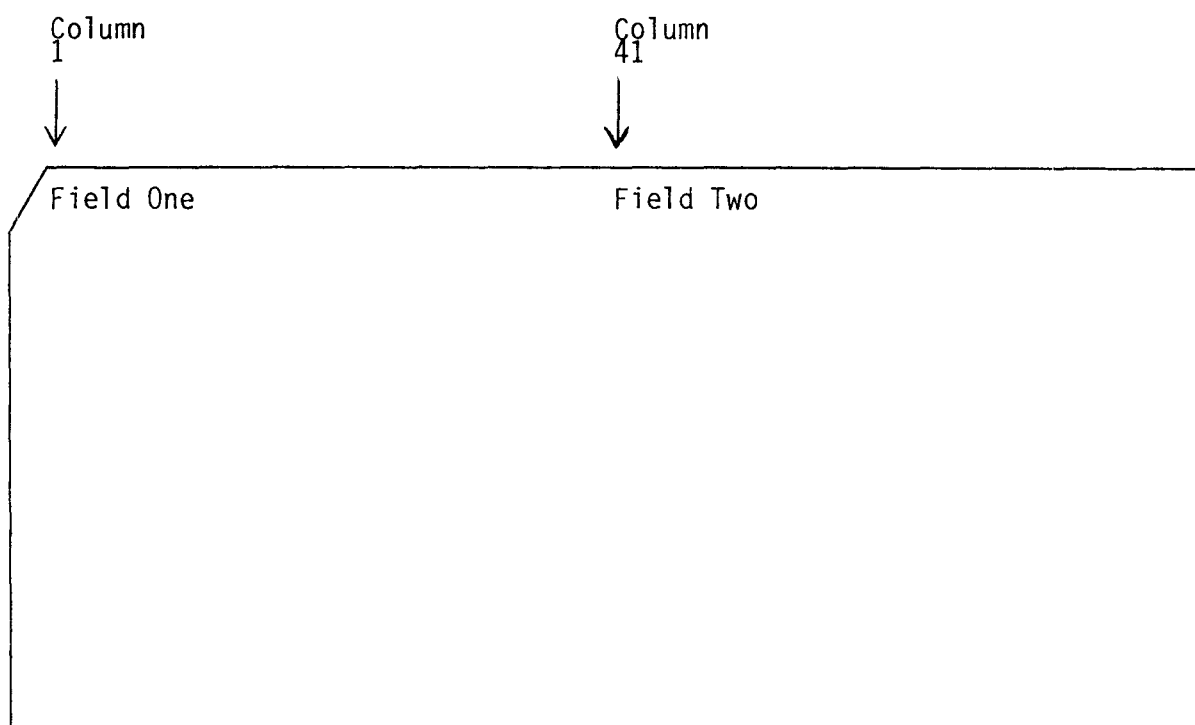
24 records if the sort fields come from the fixed portion of the SCC record. Each of the 8 SCC records will have its own associated plant and point records, giving 3 records per SCC.

120 records if the sort fields come from both the repeating section of the record and the fixed section of the SCC record; that is, 10 pollutants with 3 records each for each of the 4 SCC records per point.

If the sort fields come from more than one type of record, the highest possible number of records will be generated.

The run stream for this test run contains the JCL needed to produce a sorted answer file from an EIS/PS master file. This run stream is shown in Figure PST15-3.

The cataloged procedure executed by this run stream is EPSRM30. Through the use of substitutable parameters, the input master file is specified as EPMSTR5 (created in Test 11) and the output answer file is named EPSRT01. The user must supply the appropriate DD (data definition) information for the input sort specification card file in the COMPILE step. Refer to Figure PST15-4 for the sample output produced by this test run.



Note:

1. The first card in the sort specifications must contain \$\$SORT in field one.
2. The last card in the sort specifications must contain \$\$END in field one.
3. The sort request cards must contain a valid data name in field one and a sort sequence code in field two (A for ascending and D for descending).

Figure PST15-1. Format of Sort Specification Cards

Valid Data Names for Sort (Plant Data)

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
AQCR	3	RECORD-0-DAY	3
CITY	4	RECORD-0-YEAR	2
CONTACT	15	SEG-0-ID	1
COUNTY	4	STATE	2
DATE-OF-0-RECORD	5	TELEPHONE	10
ESTABLISHMENT	48	USER-CONTROL-REGION	3
LOCAL-CONTROL	2	USER-PLANT-ID	12
MAILING-ADDRESS	48	UTM-ZONE	2
NUMBER-OF-EMPLOYEES	4		
OWNER	1		
PLANT-ID	8		
PRINCIPAL-PRODUCT	10		
PROPERTY-AREA	6		

Valid Data Names for Sort (Point Data)

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
ANNUAL-THRUPUT	8	LATITUDE-DEGREE	2	SCHEDULE-MONTH	2
BOILER-DESIGN-CAPACITY	5	LATITUDE-MINUTE	2	SCHEDULE-YEAR	2
COMPLIANCE-SCHEDULE	4	LATITUDE-SECOND	2	SEG-1-ID	1
COMPLIANCE-STATUS	1	LONGITUDE	7	SEP-NOV	2
COMPLIANCE-STATUS-UPDATE	6	LONGITUDE-DEGREE	3	SIC	4
CONTROL-REGULATIONS	12	LONGITUDE-MINUTE	2	SPACE-HEAT	3
DATE-OF-1-RECORD	5	LONGITUDE-SECOND	2	STATUS-DAY	2
DAY-WEEK	1	MAR-MAY	2	STATUS-MONTH	2
DEC-FEB	2	NBR-OF-POLLUTANTS	2	STATUS-YEAR	2
DIAMETER	3	NEDS-POINT-ID	4	TEMPERATURE	4
ECAP	1	NORMAL-OPERATING	5	USER-POINT-ID	3
FLOW-RATE	7	PLUME	4	UTM-COORDINATES	9
HEIGHT	4	POINTS-PER-STACK	4	VELOCITY	5
HORIZONTAL	4	RECORD-1-DAY	3	VERTICAL	5
HOURS-DAY	2	RECORD-1-YEAR	2	WEEK-YEAR	2
IPP	2	REG-1	4		
JUN-AUG	2	REG-2	4		
LATITUDE	6	REG-3	4		

Valid Data Names for Sort (Repeating Point Data)

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
ALLOWABLE	7	ESTIMATION-METHOD	1
CNTL-EQUIP-COST	7	MEASURED	7
CONTROL-EQUIPMENT	6	POLLUTANT-ID	5
EMISSION-UNITS	1	PRIMARY-CNTL	3
EST-CONTROL-EFF	3	SECONDARY-CNTL	3
ESTIMATES	7	TEST-METHOD	1

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Figure PST15-2 - continued. Valid Sort Data Names

Valid Data Names for Sort (SCC Data)

<u>Data Name</u>	<u>Field Length</u>	<u>Data Name</u>	<u>Field Length</u>
ASH-CONTENT	3	RECORD-2-DAY	2
BEC	5	SCC	8
BEC-ID	2	SCC-I	1
BEC-NUMBER	3	SCC-II	2
CONFIDENTIALITY	1	SCC-III	3
DATE-OF-2-RECORD	5	SCC-IV	2
EMISSION-FACTOR-SOURCE	1	SCC-SEQ-NBR	2
FUEL-PROCESS-RATE	7	SEG-2-ID	1
FUEL-UNITS	1	SEG-2-POINT-ID	2
HEAT-CONTENT	5	SOURCE-CODE	1
MAX-DESIGN-RATE	7	SOURCE-DESCRIPTION	25
NUMBER-OF-EF	2	SULFUR-CONTENT	3
RECORD-2-YEAR	2		

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Figure PST15-2 - continued. Valid Sort Data Names

```

//PSTEST15 JOB      (ACCOUNTING INFO)
/**
/**  PRODUCE A SORTED FILE USING THE SORT GENERATOR
/**
//TEST15A EXEC FPSRM30,
//      SORTSPC=10,
//      MSTRFIL=FPMSR5,
//      SORTFIL=FPSKT01,
//      PARAM='ST/F=128K,BUF=30K,NDSFU,SUPMAP,NDSOURCE'
/**
/**  SORT THE MASTER FILE CREATED IN TEST 11
/**  ACCORDING TO THE IN-LINE USER SPECIFICATIONS
/**
//COMPILE.INPUT DD *
$SURT
DATE-OF-0-RECORD          A
STATE                     A
POLLUTANT-TD              A
$END

```

Figure PST15-3. Run Stream

PROGRAM NAME: PSRLNGP (EP0160)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

INPUT (CONTROL CARDS):

\$\$\$SORT
 DATE-OF-0-RECORD A
 STATE A
 POLLUTANT-ID A
 \$\$\$END

NUMBER OF INPUT CONTROL CARDS: 5
 NUMBER OF ERROR MESSAGES: 0
 NUMBER OF CONDITIONAL MESSAGES: 0
 NUMBER OF WARNING MESSAGES: 0
 NUMBER OF ABORT MESSAGES: 0
 NUMBER OF DISASTER MESSAGES: 0

PROGRAM NAME: PSRGENR (EP0170)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ: 162
 NUMBER OF SEGMENT 3 RECORDS SKIPPED: 8
 NUMBER OF SORTED FILE RECORDS WRITTEN: 779
 NUMBER OF ERRORS DETECTED: 0

Figure PST15-4. Sample Output

EIS/PS Test 16 - Ad Hoc

Generate All Non-Abortive Error Messages of the Emission Factor File Edit-Maintenance Program

In this test run, all non-abortive error messages of PEMEFAC (EP0040) are generated using the cataloged procedure EPEME10 which executes PSREFTR (EP0030), the emission factor file transaction sort program; and PEMEFAC (EP0040), the emission factor file edit-maintenance program.

Specially coded EIS/PS emission factor file transactions are used to generate the error messages of PEMEFAC (EP0040). These transactions are sorted by PSREFTR (EP0030) into the sequence required by PEMEFAC (EP0040). See EIS/PS Test 1 for a discussion of these programs.

The run stream for this test run contains the JCL needed to update the test emission factor file created in Test 3. It also contains the specially coded emission factor file transactions which cause the error messages to be generated. An option card is supplied as input to PEMEFAC (EP0040). The run stream for this test run is shown in Figure PST16-1 and the sample output produced by this run stream is shown in Figure PST16-2.

Substitutable parameters are used to supply the names of the input emission factor and description files and the output emission factor and description files. The names of these files are EPEMFC2 (created in Test 3), EPDESC2 (created in Test 3), EPEMFC3, and EPDESC3, respectively. The DD (data definition) information for the transactions input to PSREFTR (EP0030) and the option card input to PEMEFAC (EP0040) is also supplied.

The LIST option is purposely specified incorrectly so that message 4 will be generated. The FLAGW option is specified correctly so that all warning messages will be generated; therefore, message 3 (which indicates an invalid FLAGW option) will not be generated.

Error messages 22 and 32 of PEMEFAC (EP0040) are not generated since PSREFTR (EP0030) will reject all transactions that contain an invalid action code or emission factor origin. Messages 1, 2, 5, 6, 7, 8, 9, 12, 33, 34, 38, 40, and 41 are not generated since they are abortive in nature.

```

//PSTLS116 JOB      (ACCOUNTING INFO)
/**
/***   GENERATE NON-ABRUPTIVE ERROR MESSAGES OF PEMEFAC (EP0040)
/***   WHILE UPDATING THE EMISSION FACTOR FILE
/**
//STFP16A FXFC EPME10,
//      OLDMEFC=FPFMFC2,
//      OLDDESC=FPDESC2,
//      NEWMEFC=FPFMFC3,
//      NEWDESC=FPDESC3
/**
/***   EXECUTE AN EMISSION FACTOR FILE MAINTENANCE UPDATE
/**
//SORT.INPUT DD *
0A1CCNUMMR PULIDYDDDD
4A10100105F 1110180061          000010000
1A10100106      80061
2A10100106      80061
3A10100106      80061
4A10100106F 1110180061          000010000
1A11111111F 1110180155
4A11111111F      80155          AS//      CDE
4A11111111F 0000080155          ASHSUI
1A22222222      80155
4A22222222F 1110180155          000000200001002
1A33333333      80155
2A33333333      80155
3A33333333      80155
4A33333333S 0000080155
4A33333333S 1110180155          000000300
4A33333333S 1110280155          000000400
4A33333333S 1110380155          000000500
4A33333333S 1110480155          000000600
4A33333333S 1110580155          000000700
4A33333333S 1110680155          000000800
4A33333333S 1110780155          000000900
4A33333333S 1110880155          000001000
4A33333333S 1110980155          000001200
4A33333333S 1111180155          000001300
4A33333333S 1111280155          000001400
4A33333333S 1111380155          000001500
4A33333333S 1111480155          000001600
4A33333333S 1111580155          000001700
4A33333333S 1111680155          000001800
4A33333333S 1111780155          000001900
4A33333333S 1111880155          000002000
4C33333333S 1111880155
1A33333333      80156
2A33333333      80156
3A33333333      80156
4A33333333S 1110180156          000000300
1C44444444      80156
1D22222222      80156
4A22222222S 3330380156          000000500
4D22222222S 3330380156
4C50300101L5110180300          000000200
4A77777777S 1110180156          000000400
//UPDATE.OUTPUTS DD *
R0155 FLA6W LUST

```

Figure PST16-1. Run Stream

EIS/PS EMISSION FACTOR FILE TRANSACTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSREFTR (EP0030)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

1A111111F 1110180155
 *** PSREFTR 003 WARNING - EF ORIGIN OR EF SOURCE NOT BLANK, REPLACING SPACE

NUMBER OF TRANSACTIONS READ:	43
NUMBER OF TRANSACTIONS WRITTEN:	44
NUMBER OF ERRORS DETECTED:	1
NUMBER OF TRANSACTIONS REJECTED:	0

EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PEMEFAC (EP0040)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

80155 FLAGW LUST

*** PEMEFAC 004 CONDITIONAL - LIST OPTION INVALID, USED DEFAULT OF NO LIST

CONTROL DATE IS 80155, ERROR OPTION JS FLAGW , LIST OPTION IS NO LIST

0A1CCNUMR PULIDYDDO
B B E R E B E

*** PEMEFAC 021 ERROR - COLUMN 1 - CARD TYPE INVALID, CARD REJECTED
 *** PEMEFAC 023 ERROR - COLUMN 3 - SCC NUMBER NOT NUMERIC, CARD REJECTED
 *** PEMEFAC 024 ERROR - COLUMN 13 - POLLUTANT ID INVALID, CARD REJECTED
 *** PEMEFAC 013 ERROR - COLUMN 18 - SCC DATE INVALID, CARD REJECTED

1A10100106 80061

*** PEMEFAC 025 ERROR - ADD SPECIFIED FOR EXISTING SCC DESC RECORD, CARD REJECTED

2A10100106 80061

*** PEMEFAC 025 ERROR - ADD SPECIFIED FOR EXISTING SCC DESC RECORD, CARD REJECTED

3A10100106 80061

*** PEMEFAC 025 ERROR - ADD SPECIFIED FOR EXISTING SCC DESC RECORD, CARD REJECTED

4A10100106F 1110180061

000010000

*** PEMEFAC 028 ERROR - ADD SPECIFIED FOR EXISTING SCC EMF RECORD, CARD REJECTED

4A1111111F 0000080155

ASHSUL
B E R E

*** PEMEFAC 017 ERROR - COLUMN 58 - ASH CONTENT NOT NUMERIC, CARD REJECTED
 *** PEMEFAC 018 ERROR - COLUMN 61 - SULFUR CONTENT NOT NUMERIC, CARD REJECTED

4A1111111FF 80155
HR EAS//
P EHER E B E

*** PEMEFAC 014 ERROR - COLUMN 43 - FLAGS INVALID, CARD REJECTED
 *** PEMEFAC 015 WARNING - COLUMN 47 - UNIT OF MEASURE INVALID, CARD ACCEPTED
 *** PEMEFAC 016 ERROR - COLUMN 49 - EMISSION FACTOR NOT NUMERIC, CARD REJECTED

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Figure PST16-2 - continued. Sample Output

EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM - DIAGNOSTIC REPORT

*** PEMEFAC 019 ERROR - COLUMN 64 - CONTROL DEVICE EFFICIENCY NOT NUMERIC, CARD REJECTED
 *** PEMEFAC 020 ERROR - COLUMN 13 - POLLUTANT ID FIELD REQUIRED ON TYPE 4, CARD REJECTED
 *** PEMEFAC 039 ERROR - COLUMN 12 - INVALID EF SOURCE TYPE, CARD REJECTED

1A1111111 1110180155
 *** PEMEFAC 010 ERROR - NEW SCC DESC RECORD NOT COMPLETE, RECORD REJECTED

1D2222222 80156

*** PEMEFAC 027 ERROR - DELETE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

1A2222222 80155
 4A2222222F 1110180155 000002000001002

*** PEMEFAC 011 ERROR - NEW SCC EMF RECORD NOT COMPLETE, RECORD REJECTED

4A2222222F 1110180155 000002000001002

*** PEMEFAC 042 ERROR - ZERO POLLUTANT RECORD MISSING, CARD REJECTED

4D2222222S 3330380156

*** PEMEFAC 031 ERROR - DELETE SPECIFIED FOR NONEXISTENT SCC EMF RECORD, CARD REJECTED

1A2222222 80155
 4A2222222S 3330380156 000000500

*** PEMEFAC 011 ERROR - NEW SCC EMF RECORD NOT COMPLETE, RECORD REJECTED

4A2222222S 3330380156 000000500

*** PEMEFAC 042 ERROR - ZERO POLLUTANT RECORD MISSING, CARD REJECTED

1A2222222 80155
 4A2222222S 3330380156 000000500

*** PEMEFAC 010 ERROR - NEW SCC DESC RECORD NOT COMPLETE, RECORD REJECTED

1A3333333 80156

*** PEMEFAC 036 ERROR - DUPLICATE TYPE 1 ADD TRANSACTION, CARDS REJECTED

4A3333333S 1110180156 000000300

*** PEMEFAC 037 ERROR - DUPLICATE TYPE 4 ADD TRANSACTION, CARD REJECTED

333333332 111A8015580155 000000500

*** PEMEFAC 035 ERROR - MORE THAN 16 POLLUTANTS FOR THIS SCC/ORIGIN/SOURCE COMBINATION

1C4444444 80156

*** PEMEFAC 026 ERROR - CHANGE SPECIFIED FOR NONEXISTENT SCC DESC RECORD, CARD REJECTED

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Figure PST16-2 - continued. Sample Output

EIS/PS EMISSION FACTOR FILE EDIT-MAINTENANCE PROGRAM - DIAGNOSTIC REPORT

4C50300101L311101M0300

000000200

*** PEMEFAC 030 WARNING - CHANGE SPECIFIED FOR NONEXISTENT SCC EMF RECORD, ACCEPTED AS ADD
 *** PEMEFAC 042 ERROR - ZERO POLLUTANT RECORD MISSING, CARD REJECTED

4A7777777S 11101R0156

000000400

*** PEMEFAC 029 ERROR - ADD SPECIFIED FOR SCC EMF BUT NO DESC EXISTS FOR SCC, CARD REJECTED

2A3333333 80156

3A3333333 80156

*** PEMEFAC 010 ERROR - NEW SCC DESC RECORD NOT COMPLETE, RECORD REJECTED

NUMBER OF INPUT TRANSACTIONS READ:	44
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	30
NUMBER OF WARNING MESSAGES:	2
NUMBER OF CONDITIONAL MESSAGES:	1
NUMBER OF TRANSACTIONS REJECTED:	16
NUMBER OF SCC-DESCRIPTION FILE RECORDS READ:	101
NUMBER OF SCC-DESCRIPTION FILE RECORDS WRITTEN:	101
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS READ:	638
NUMBER OF SCC-EMISSION-FACTOR FILE RECORDS WRITTEN:	656

PROGRAM NAME: PEMEFAC (EP0040)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST16-2 - continued. Sample Output

EIS/PS Test 17 - Ad Hoc

Generate All Non-Abortive Error Messages of the NEDS to EIS/PS Master File Transaction Conversion-Edit Program

In this test run, all non-abortive error messages of PCENETR (EP0060) are generated using the cataloged procedure EPCET10 which executes PSRNETR (EP0050), the NEDS transaction sort program; and PCENETR (EP0060), the NEDS to EIS/PS master file transaction conversion-edit program.

Specially coded NEDS master file transactions are used to generate the error messages of PCENETR (EP0060). These transactions are sorted by PSRNETR (EP0050) into the sequence required by PCENETR (EP0060). See Test 4 for a discussion of these programs.

The run stream for this test run contains the JCL needed to execute the conversion-edit procedure. It also contains the specially coded transactions which cause the error messages to be generated, and an option card which is input to PCENETR (EP0060). The run stream for this test run is shown in Figure PST17-1 and sample output produced by this run stream is shown in Figure PST17-2.

A substitutable parameter is used to supply the name of the internal transaction file output from PCENETR (EP0060). The name of the file is EPINTR4. The DD (data definition) information for the transactions input to PSRNETR (EP0050) and the option card input to PCENETR (EP0060) is also supplied.

The FLAGW and LIST options are purposely specified incorrectly so that messages 89 and 90 will be generated. This will not impede the purpose of this test run since there are no warning messages contained in PCENETR (EP0060). Error messages 87 and 88 are not generated since they are abortive in nature.

```

//PST17 JOB      (ACCOUNTING INFO)
/**
/**  GENERATE NON-ABORTIVE ERROR MESSAGES OF PLENTR (EP0060)
/**
//STEP1/A EXEC EPCET10,
//      INTRN=EPINTR4
/**
/**  CONVERT NEDS MASTER FILE TRANSACTIONS TO EIS/PS MASTER
/**  FILE TRANSACTIONS
/**
//SUR1.INPUT DD *
STCNTYACPLN# YY
4400001112222 YY
4400001112222 UZ
4400001112222 14
4400001112222P# HGHTDIATEMPFLOWRTPLUM #1
440000111222211 HNRZVERTC0501 5000 0300 0655
550000111222211 2P00305600100888 #1#2
550000111222211 0102
55000011122221180H01LRPTSECPRITSECPRITSECPRITSECPRITSECEFFEEFFEEFFEEFF
55000011122221180 001002003004005
550000111222211801112131400WYY MMMMMSPH
55000011122221180 12445
5500001112222118011223344250530800001100000011111122222233333312345
55000011122221180 002500100000000111110222222033333
5500001112222118000250010026000110000010000002222225CSCUPDATE
55000011122221180ALL0W-1ALL0W-2ALL0W-3ALL0W-4ALL0W-5C89018901016
5500001112222118011111197PROCESSMAXDSGN
55000011122221180SCC-CODE 3
550000111222211801111111 0
//CONVERT.OPTIONS DD *
RD FLAG6 LOST

```

```

B48
AP1
AP1
AP1
AP2
AP2
AP2
AP2
AP3
AP3
AP4
AP4
AP4
AP4
AP5
AP5
AP6
AP6
UP7

```

Figure PST17-1. Run Stream

PROGRAM NAME: PSRNETR (EP0050)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:	19
NUMBER OF OUTPUT TRANSACTIONS:	19

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Figure PST17-2. Sample Output

NEWS TO FIS/PS CONVERSION-EDIT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PCNETR (EP0060)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1960

OPTION CARD

80 FLAGG LOST

*** PCNETR 089 CONDITIONAL - INVALID FLAGW OPTION, DEFAULT (NOFLAGW) ASSUMED

*** PCNETR 090 CONDITIONAL - INVALID LIST OPTION, DEFAULT (NOLIST) ASSUMED

CONTROL DATE IS 80 , ERROR OPTION IS NOFLAGW, LIST OPTION IS NOLIST

STCNTYACPLN#	YY	REB	ER	EB	EBEB	BA8	BRB
***	PCNETR	001	ERROR	-	COLUMN 01 - INVALID STATE CODE, CARD REJECTED		
***	PCNETR	002	ERROR	-	COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED		
***	PCNETR	003	ERROR	-	COLUMN 07 - INVALID AOCR CODE, CARD REJECTED		
***	PCNETR	004	ERROR	-	COLUMN 79 - INVALID ACTION TYPE, CARD REJECTED		
***	PCNETR	005	ERROR	-	COLUMN 78 - INVALID CARD TYPE, CARD REJECTED		
***	PCNETR	006	ERROR	-	COLUMN 80 - INVALID CARD NUMBER, CARD REJECTED		
***	PCNETR	013	CONDITIONAL	-	COLUMN 16 - INVALID YEAR		
***	PCNETR	007	ERROR	-	COLUMN 10 - INVALID PLANT ID, CARD REJECTED		
***	PCNETR	014	ERROR	-	COLUMN 14 - INVALID POINT ID, CARD REJECTED		
***	PCNETR	085	ERROR	-	INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED		
***	PCNETR	085	ERROR	-	INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED		
***	PCNETR	085	ERROR	-	INVALID CHARACTER DETECTED IN BASE 36 CONVERSION ROUTINE, CARD REJECTED		
44000001112222	14					AP1	
BE	B						
***	PCNETR	009	CONDITIONAL	-	COLUMN 1A - UTM-ZONE OUT OF RANGE		
***	PCNETR	011	ERROR	-	COLUMN 22 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED		
***	PCNETR	012	CONDITIONAL	-	COLUMN 74 - INVALID OWNERSHIP CODE		
44000001112222	UZ					AP1	
BE	B						
***	PCNETR	092	ERROR	-	COLUMN 1R - UTM ZONE NOT NUMERIC, CARD REJECTED		
***	PCNETR	011	ERROR	-	COLUMN 22 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED		
***	PCNETR	012	CONDITIONAL	-	COLUMN 74 - INVALID OWNERSHIP CODE		

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Figure PST17-2 - continued. Sample Output

NEDS TO EIS/PS CONVERSION-EDIT PROGRAM - DIAGNOSTIC REPORT

```

440000011122222  YY      BEBER
*** PCENETR 00A CONDITIONAL - COLUMN 1A - UTM-ZONE BLANK FOR ADD TRANSACTION
*** PCENETR 010 CONDITIONAL - COLUMN 20 - INVALID YEAR
*** PCENETR 011 ERROR - COLUMN 22 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED
*** PCENETR 012 CONDITIONAL - COLUMN 74 - INVALID OWNERSHIP CODE

440000011122222P#  HGMIDTATEMPFLUMRTEPLUM #1  AP2
BE      B  EB  ER  EH  EH  EH  EH  E  B  E
*** PCENETR 014 ERROR - COLUMN 14 - INVALID POINT ID, CARD REJECTED
*** PCENETR 015 CONDITIONAL - COLUMN 24 - UTM-HORIZONTAL COORDINATE BLANK FOR ADD TRANSACTION
*** PCENETR 017 CONDITIONAL - COLUMN 2A - UTM-VERTICAL COORDINATE BLANK FOR ADD TRANSACTION
*** PCENETR 020 ERROR - COLUMN 33 - NON-NUMERIC STACK HEIGHT, CARD REJECTED
*** PCENETR 022 ERROR - COLUMN 37 - NON-NUMERIC STACK DIAMETER, CARD REJECTED
*** PCENETR 024 ERROR - COLUMN 40 - NON-NUMERIC STACK TEMPERATURE, CARD REJECTED
*** PCENETR 025 ERROR - COLUMN 44 - NON-NUMERIC EXHAUST FLOW RATE, CARD REJECTED
*** PCENETR 027 ERROR - COLUMN 51 - NON-NUMERIC PLUME HEIGHT, CARD REJECTED
*** PCENETR 041 CONDITIONAL - COLUMN 56 - COMMON STACK POINTS NOT BOTH BLANK FOR ADD TRANSACTION

4400000111222211  H0RZVERTC0501  5000  0300 6655  AP2
H  EB  ER  E  B  E
*** PCENETR 086 ERROR - COLUMN 24 - NON-NUMERIC UTM HORIZONTAL, CARD REJECTED
*** PCENETR 084 ERROR - COLUMN 28 - NON-NUMERIC UTM VERTICAL, CARD REJECTED
*** PCENETR 019 CONDITIONAL - COLUMN 33 - STACK HEIGHT LESS THAN 0 OR GREATER THAN 500
*** PCENETR 023 CONDITIONAL - COLUMN 40 - INVALID STACK TEMPERATURE
*** PCENETR 026 CONDITIONAL - COLUMN 51 - INVALID PLUME HEIGHT
*** PCENETR 042 CONDITIONAL - COLUMN 56 - 1ST COMMON STACK PT NOT LESS THAN 2ND COMMON STACK PT

5500000111222211  HE      0102  AP2
H  EB  E
*** PCENETR 015 CONDITIONAL - COLUMN 24 - UTM-HORIZONTAL COORDINATE BLANK FOR ADD TRANSACTION
*** PCENETR 017 CONDITIONAL - COLUMN 2A - UTM-VERTICAL COORDINATE BLANK FOR ADD TRANSACTION
*** PCENETR 043 CONDITIONAL - COLUMN 14 - NEDS POINT ID NOT WITHIN COMMON STACK POINTS

5500000111222211  2800305600100R8R  #1#2  AP2
H  EB  E  B  E
*** PCENETR 016 CONDITIONAL - COLUMN 24 - UTM-HORIZONTAL COORDINATE OUT OF RANGE
*** PCENETR 018 CONDITIONAL - COLUMN 28 - UTM-VERTICAL COORDINATE OUT OF RANGE
*** PCENETR 021 CONDITIONAL - COLUMN 37 - STACK DIAMETER EXCEEDS (0.2 * STACK HEIGHT)
*** PCENETR 094 ERROR - COLUMN 56 - INVALID POINTS WITH COMMON STACK, CARD REJECTED

55000001112222118080ILRPRISECPRISECPRISECPRISECEFFEFFEFFE  AP3
H  ER  EH  ER  EH  ER  EH  ER  EH  EB  EB  EB  E
*** PCENETR 028 ERROR - COLUMN 1R - NON-NUMERIC BOILER DESIGN CAPACITY, CARD REJECTED
*** PCENETR 095 ERROR - COLUMN 23 - INVALID PRIMARY CONTROL EQUIP FOR TSP, CARD REJECTED
*** PCENETR 100 ERROR - COLUMN 26 - INVALID SECONDARY CONTROL EQUIP FOR TSP, CARD REJECTED
*** PCENETR 105 ERROR - COLUMN 53 - NON-NUMERIC EST CONTROL EFF FOR TSP, CARD REJECTED

```

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NEDS TO EIS/PS CONVERSION-EDIT PRUGRAM - DIAGNOSTIC REPORT

```

*** PCENETR 096 ERROR - COLUMN 29 - INVALID PRIMARY CONTROL EQUIP FOR SO2, CARD REJECTED
*** PCFNETR 101 ERROR - COLUMN 32 - INVALID SECONDRY CONTROL EQUIP FOR SO2, CARD REJECTED
*** PCENETR 106 ERROR - COLUMN 56 - NON NUMERIC EST CONTROL EFF FOR SO2, CARD REJECTED
*** PCENETR 097 ERROR - COLUMN 35 - INVALID PRIMARY CONTROL EQUIP FOR NOX, CARD REJECTED
*** PCFNETR 102 ERROR - COLUMN 38 - INVALID SECONDRY CONTROL EQUIP FOR NOX, CARD REJECTED
*** PCENETR 107 ERROR - COLUMN 59 - NON NUMERIC EST CONTROL EFF FOR NOX, CARD REJECTED
*** PCENETR 098 ERROR - COLUMN 41 - INVALID PRIMARY CONTROL EQUIP FOR HC, CARD REJECTED
*** PCENETR 103 ERROR - COLUMN 44 - INVALID SECONDRY CONTROL EQUIP FOR HC, CARD REJECTED
*** PCENETR 108 ERROR - COLUMN 62 - NON NUMERIC EST CONTROL EFF FOR HC, CARD REJECTED
*** PCENETR 099 ERROR - COLUMN 47 - INVALID PRIMARY CONTROL EQUIP FOR CO, CARD REJECTED
*** PCENETR 104 ERROR - COLUMN 50 - INVALID SECONDRY CONTROL EQUIP FOR CO, CARD REJECTED
*** PCENETR 109 ERROR - COLUMN 65 - NON NUMERIC EST CONTROL EFF FOR CO, CARD REJECTED

550000011122221180
*** PCENETR 110 ERROR - TSP PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
*** PCENETR 111 ERROR - SO2 PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
*** PCENETR 112 ERROR - NOX PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
*** PCENETR 113 ERROR - HC PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED
*** PCENETR 114 ERROR - CO PRI CONT EQUIP AND EST EFF NOT BOTH BLANK FOR ADD, CARD REJECTED

5500000111222211801122334258530800001100000011111122222233333312345
*** PCENETR 029 CONDITIONAL - COLUMN 26 - INVALID DAY FOR OPERATING RATE
*** PCENETR 031 CONDITIONAL - COLUMN 28 - INVALID WEEK FOR OPERATING RATE
*** PCENETR 033 CONDITIONAL - COLUMN 29 - INVALID YEAR FOR OPERATING RATE
*** PCENETR 044 CONDITIONAL - COLUMN 18 - INVALID THRUPT PERCENTAGE SUM
*** PCENETR 056 ERROR - COLUMN 31 - TSP EMISSIONS ESTIMATE INVALID, CARD REJECTED
*** PCENETR 057 ERROR - COLUMN 38 - SO2 EMISSIONS ESTIMATE INVALID, CARD REJECTED
*** PCENETR 058 ERROR - COLUMN 45 - NOX EMISSIONS ESTIMATE INVALID, CARD REJECTED
*** PCENETR 059 ERROR - COLUMN 52 - HC EMISSIONS ESTIMATE INVALID, CARD REJECTED
*** PCENETR 060 ERROR - COLUMN 59 - CO EMISSIONS ESTIMATE INVALID, CARD REJECTED

550000011122221180
*** PCENETR 051 ERROR - COLUMN 31 - TSP EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
*** PCFNETR 052 ERROR - COLUMN 38 - SO2 EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
*** PCENETR 053 ERROR - COLUMN 45 - NOX EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
*** PCFNETR 054 ERROR - COLUMN 52 - HC EMISSIONS ESTIMATE IS BLANK, CARD REJECTED
*** PCENETR 055 ERROR - COLUMN 59 - CO EMISSIONS ESTIMATE IS BLANK, CARD REJECTED

550000011122221180112131400WYY
*** PCENETR 030 ERROR - COLUMN 26 - NON-NUMERIC DAY FOR OPERATING RATE, CARD REJECTED
*** PCFNETR 032 ERROR - COLUMN 28 - NON-NUMERIC WEEK FOR OPERATING RATE, CARD REJECTED
*** PCENETR 034 ERROR - COLUMN 29 - NON-NUMERIC YEAR FOR OPERATING RATE, CARD REJECTED
*** PCENETR 035 ERROR - COLUMN 71 - NON-NUMERIC HEATED SPACE PERCENTAGE, CARD REJECTED
*** PCENETR 045 ERROR - COLUMN 18 - NON-NUMERIC THRUPT PERCENTAGE, CARD REJECTED

```

(Page 4 of 6)

Figure PST17-2 - continued. Sample Output

NEDS TO EIS/PS CONVERSION-EDIT PROGRAM - DIAGNOSTIC REPORT

```

*** PCENETR 046 ERROR - COLUMN 66 - TSP ESTIMATION METHOD IS INVALID, CARD REJECTED
*** PCENETR 047 ERROR - COLUMN 67 - S02 ESTIMATION METHOD IS INVALID, CARD REJECTED
*** PCENETR 048 ERROR - COLUMN 68 - NOX ESTIMATION METHOD IS INVALID, CARD REJECTED
*** PCENETR 049 ERROR - COLUMN 69 - HC ESTIMATION METHOD IS INVALID, CARD REJECTED
*** PCENETR 050 ERROR - COLUMN 70 - CO ESTIMATION METHOD IS INVALID, CARD REJECTED

55000011122221180      002500108000000111110222222033333      AP4
      B      EB      EB      EB      EB      EB      EB      EB      EB      EB
*** PCENETR 061 CONDITIONAL - COLUMN 31 - TSP EMISSIONS ESTIMATE OUT OF RANGE
*** PCENETR 062 CONDITIONAL - COLUMN 38 - S02 EMISSIONS ESTIMATE OUT OF RANGE
*** PCENETR 063 CONDITIONAL - COLUMN 45 - NOX EMISSIONS ESTIMATE OUT OF RANGE
*** PCENETR 064 CONDITIONAL - COLUMN 52 - HC EMISSIONS ESTIMATE OUT OF RANGE
*** PCENETR 065 CONDITIONAL - COLUMN 59 - CO EMISSIONS ESTIMATE OUT OF RANGE

55000011122221180ALLOW-1ALLOW-2ALLOW-3ALLOW-4ALLOW-5C89018901016      AP5
      B      EB      EB      EB      EB      EB      EB      EB      EB      EB
*** PCENETR 037 CONDITIONAL - COLUMN 64 - INVALID ECAP CODE
*** PCENETR 040 ERROR - COLUMN 53 - NON-NUMERIC COMPLIANCE STATUS, CARD REJECTED
*** PCENETR 071 ERROR - COLUMN 18 - TSP ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
*** PCENETR 072 ERROR - COLUMN 25 - S02 ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
*** PCENETR 073 ERROR - COLUMN 32 - NOX ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
*** PCENETR 074 ERROR - COLUMN 39 - HC ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
*** PCENETR 075 ERROR - COLUMN 46 - CO ALLOWABLE EMISSIONS NON-NUMERIC, CARD REJECTED
*** PCENETR 081 CONDITIONAL - COLUMN 58 - COMPLIANCE UPDATE GREATER THAN CURRENT DATE
*** PCENETR 083 CONDITIONAL - COLUMN 54 - COMPLIANCE SCHEDULE NOT WITHIN 5 YEARS

55000011122221180002500100260001100000010000002222225C5CHUPDATEE      AP5
      R      ER      ER      ER      ER      ER      ER      ER      ER      ER
*** PCENETR 038 ERROR - COLUMN 64 - NON-NUMERIC ECAP CODE, CARD REJECTED
*** PCENETR 039 CONDITIONAL - COLUMN 53 - INVALID COMPLIANCE STATUS
*** PCENETR 066 CONDITIONAL - COLUMN 18 - TSP ALLOWABLE EMISSIONS OUT OF RANGE
*** PCENETR 067 CONDITIONAL - COLUMN 25 - S02 ALLOWABLE EMISSIONS OUT OF RANGE
*** PCENETR 068 CONDITIONAL - COLUMN 32 - NOX ALLOWABLE EMISSIONS OUT OF RANGE
*** PCENETR 069 CONDITIONAL - COLUMN 39 - HC ALLOWABLE EMISSIONS OUT OF RANGE
*** PCENETR 070 CONDITIONAL - COLUMN 46 - CO ALLOWABLE EMISSIONS OUT OF RANGE
*** PCENETR 080 ERROR - COLUMN 58 - INVALID COMPLIANCE UPDATE, CARD REJECTED
*** PCENETR 082 ERROR - COLUMN 54 - INVALID COMPLIANCE SCHEDULE, CARD REJECTED

55000011122221180SCC-CODE      C      AP6
      B      E
*** PCENETR 091 ERROR - COLUMN 18 - NON-NUMERIC SCC CODE, CARD REJECTED
*** PCENETR 077 CONDITIONAL - COLUMN 72 - INVALID CONFIDENTIALITY CODE

55000011122221180111111111      DP7
      B

*** PCENETR 093 ERROR - COLUMN 80 - INVALID CARD NUMBER FOR DELETE, CARD REJECTED

550000111222211801111111197PROCESSMAXDSGN      3      AP6
      B      EB      E      B      E      B

```

(Page 5 of 6)

Figure PST17-2 - continued. Sample Output

*** PCFNETR 036 CONDITIONAL - COLUMN 51 - SOURCE DESCRIPTION BLANK FOR ADD TRANSACTION
 *** PCFNETR 076 ERROR - COLUMN 72 - CONFIDENTIALITY OF 3 NOT ALLOWED, CARD REJECTED
 *** PCFNETR 078 ERROR - COLUMN 26 - NON-NUMERIC FUEL PROCESS RATE, CARD REJECTED
 *** PCFNETR 079 ERROR - COLUMN 33 - NON-NUMERIC MAXIMUM DESIGN CAPACITY, CARD REJECTED

NUMBER OF TRANSACTIONS READ:	19
NUMBER OF INTERNAL TRANSACTIONS WRITTEN:	6
NUMBER OF TRANSACTIONS REJECTED:	17
NUMBER OF ABORT MESSAGES:	0
NUMBER OF ERROR MESSAGES:	79
NUMBER OF CONDITIONAL MESSAGES:	42
NUMBER OF WARNING MESSAGES:	0

PROGRAM NAME: PCFNETR (EP0060)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

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Figure PST17-2 - continued. Sample Output

EIS/PS MASTER FILE TRANSACTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSMETR (EP0070)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 66
 NUMBER OF OUTPUT TRANSACTIONS: 66

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Figure PST18-2. Sample Output

PROGRAM NAME: PEDMSR (EP0080)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAGW NCLIST
 CONTROL YEAR: 80

80 FLAGW LOST *** PEDMSR 004 CONDITIONAL - INVALID LIST OPTION, DEFAULT (NCLIST) ASSUMED

STCNTYACPLT#810DD
 RER ER EB FHF E

00H
 BFB

*** PEDMSR 005 ERROR - COLUMN 01 - INVALID STATE CODE, CARD REJECTED
 *** PEDMSR 006 ERROR - COLUMN 03 - NON-NUMERIC COUNTY CODE, CARD REJECTED
 *** PEDMSR 007 ERROR - COLUMN 07 - INVALID ADDR, CARD REJECTED
 *** PEDMSR 008 ERROR - COLUMN 10 - INVALID PLANT-ID, CARD REJECTED
 *** PEDMSR 010 ERROR - COLUMN 78 - INVALID TRANSACTION CARD NUMBER, CARD REJECTED
 *** PEDMSR 015 ERROR - COLUMN 80 - INVALID ACTION TYPE, CARD REJECTED
 *** PEDMSR 017 CONDITIONAL - COLUMN 14 - YEAR SPECU IS GREATER THAN OPTION YEAR
 *** PEDMSR 016 ERROR - COLUMN 14 - INVALID DATE SPECIFIED, CARD REJECTED

061960053000180001054221220600

21A

*** PEDMSR 083 ERROR - COLUMN 62 - INVALID ASH/SULFUR ORIGIN, CARD REJECTED

061960053000180001054221220600

23A

*** PEDMSR 106 ERROR - COLUMN 31 - INVALID FWF ORIGIN, CARD REJECTED

55000011122280001NON-BLANK FIELDS FOR DLEFIF

01D

*** PEDMSR 104 ERROR - NON-KEY FIELDS NOT BLANK FOR DLEFIF, CARD REJECTED

55000011122280001

01A

*** PEDMSR 021 CONDITIONAL - COLUMN 40 - UTM-7ONE NUMBER BLANK FOR ADD TRANSACTION

55000011122280001

01A

*** PEDMSR 018 CONDITIONAL - COLUMN 36 - INVALID CITY SPECIFIED
 *** PEDMSR 019 ERROR - COLUMN 40 - NON-NUMERIC UTM-7ONE NUMBER, CARD REJECTED

EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM - DIAGNOSTIC REPORT

*** PEDMSTR 022 CONDITIONAL - COLUMN 42 - INVALID OWNERSHIP CODE
 *** PEDMSTR 023 ERROR - COLUMN 58 - NON-NUMERIC TELEPHONE NUMBER, CARD REJECTED

550000111222280001 21 01A
 BE
 *** PEDMSTR 020 CONDITIONAL - COLUMN 40 - UTM-ZONE NUMBER OUT OF RANGE

550000111222280001 02D
 BE
 *** PEDMSTR 092 ERROR - COLUMN 78 - INVALID CARD NUMBER FOR DELETE, CARD REJECTED

550000111222280001 R #EMPAREA 02A
 BE EB E
 *** PEDMSTR 024 ERROR - COLUMN 19 - NAME/ADDRESS FIELD BLANK FOR ADD TRANSACTION, CARD REJECTED
 *** PEDMSTR 025 ERROR - COLUMN 67 - NON-NUMERIC NUMBER OF EMPLOYEES, CARD REJECTED
 *** PEDMSTR 026 CONDITIONAL - COLUMN 71 - NON-NUMERIC PROPERTY AREA

550000111222280001* B 02C
 E
 *** PEDMSTR 102 ERROR - COLUMN 19 - NAME/ADDRESS FIELD CANNOT BE DELETED, CARD REJECTED

550000111222280001P# SICCPH0RZVERTCLATLUDLONGIDETHRPUTTOPRTEROILRSPH 11A
 BE B EBEH EB EB E9 EB EBERHER EB E
 *** PEDMSTR 009 ERROR - COLUMN 19 - INVALID POINT-ID, CARD REJECTED
 *** PEDMSTR 028 CONDITIONAL - COLUMN 24 - NON-NUMERIC SIC CODE
 *** PEDMSTR 029 ERROR - COLUMN 28 - NON-NUMERIC IPP CODE, CARD REJECTED
 *** PEDMSTR 030 ERROR - COLUMN 30 - NON-NUMERIC UTM-HORIZONTAL CODE, CARD REJECTED
 *** PEDMSTR 033 ERROR - COLUMN 34 - NON-NUMERIC UTM-VERTICAL CODE, CARD REJECTED
 *** PEDMSTR 036 ERROR - COLUMN 39 - NON-NUMERIC LATITUDE, CARD REJECTED
 *** PEDMSTR 037 ERROR - COLUMN 45 - NON-NUMERIC LONGITUDE, CARD REJECTED
 *** PEDMSTR 038 ERROR - COLUMN 52 - NON-NUMERIC ANNUAL THRUPTUT PERCENTAGE, CARD REJECTED
 *** PEDMSTR 056 ERROR - COLUMN 60 - NON-NUMERIC DAY FOR OPERATING RATE, CARD REJECTED
 *** PEDMSTR 109 ERROR - COLUMN 62 - NON-NUMERIC WEEK FOR OPERATING RATE, CARD REJECTED
 *** PEDMSTR 111 ERROR - COLUMN 63 - NON-NUMERIC YEAR FOR OPERATING RATE, CARD REJECTED
 *** PEDMSTR 040 ERROR - COLUMN 65 - NON-NUMERIC BOILER DESIGN CAPACITY, CARD REJECTED
 *** PEDMSTR 041 ERROR - COLUMN 70 - NON-NUMERIC HEATED SPACE PERCENTAGE, CARD REJECTED

55000011122228000122 1111 280020600 112233425853 11A
 B EB E H EBERBE
 *** PEDMSTR 031 CONDITIONAL - COLUMN 30 - UTM-HORIZONTAL CODE OUT OF RANGE
 *** PEDMSTR 034 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE OUT OF RANGE
 *** PEDMSTR 093 CONDITIONAL - COLUMN 52 - INVALID THRUPTUT SUM
 *** PEDMSTR 039 CONDITIONAL - COLUMN 60 - INVALID DAY FOR OPERATING RATE

EIS/PS MASTER FILE TRANSACTION EDIT PROGRAM - DIAGNOSTIC REPORT

*** PEDMSTR 108 CONDITIONAL - COLUMN 62 - INVALID WEEK FOR OPERATING RATE
 *** PEDMSTR 110 CONDITIONAL - COLUMN 63 - INVALID YEAR FOR OPERATING RATE

55000011122228000122 11A

B E R FB E
 *** PEDMSTR 027 CONDITIONAL - COLUMN 24 - SIC CODE BLANK FOR ADD TRANSACTION
 *** PEDMSTR 032 CONDITIONAL - COLUMN 30 - UTM-HORIZONTAL CODE BLANK FOR ADD TRANSACTION
 *** PEDMSTR 035 CONDITIONAL - COLUMN 34 - UTM-VERTICAL CODE BLANK FOR ADD TRANSACTION

550000111222280001220501 12A

B E
 *** PEDMSTR 094 CONDITIONAL - COLUMN 21 - STACK HEIGHT LESS THAN ZERO OR GREATER THAN 500

5500001112222800012201000212001 12A

B E R E RE R
 *** PEDMSTR 044 CONDITIONAL - COLUMN 25 - STACK DIAMETER EXCEEDS 20 PERCENT OF THE STACK HEIGHT
 *** PEDMSTR 046 CONDITIONAL - COLUMN 28 - STACK TEMPERATURE LESS THAN 77 OR GREATER THAN 200
 *** PEDMSTR 050 CONDITIONAL - COLUMN 44 - PLUME HEIGHT IS GREATER THAN 200
 *** PEDMSTR 052 CONDITIONAL - COLUMN 48 - 1ST POINT GREATER THAN OR EQUAL TO 2ND POINT
 *** PEDMSTR 100 CONDITIONAL - NEDS POINT ID NOT WITHIN COMMON STACK POINTS
 *** PEDMSTR 055 CONDITIONAL - COLUMN 53 - YEAR OF COMPLIANCE SCHEDULE NOT WITHIN 5 YEARS
 *** PEDMSTR 057 CONDITIONAL - COLUMN 57 - YEAR OF COMPLIANCE UPDATE GREATER THAN OPTION YEAR
 *** PEDMSTR 095 CONDITIONAL - COLUMN 63 - INVALID ECAP CODE

5500001112222800012201000212001 12A

B E R E FB R E RE R
 *** PEDMSTR 042 ERROR - COLUMN 21 - NON-NUMERIC STACK HEIGHT, CARD REJECTED
 *** PEDMSTR 043 ERROR - COLUMN 25 - NON-NUMERIC STACK DIAMETER, CARD REJECTED
 *** PEDMSTR 045 ERROR - COLUMN 28 - NON-NUMERIC STACK TEMPERATURE, CARD REJECTED
 *** PEDMSTR 047 ERROR - COLUMN 32 - NON-NUMERIC EXHAUST FLOW RATE, CARD REJECTED
 *** PEDMSTR 048 ERROR - COLUMN 39 - NON-NUMERIC VELOCITY, CARD REJECTED
 *** PEDMSTR 049 ERROR - COLUMN 44 - NON-NUMERIC PLUME HEIGHT, CARD REJECTED
 *** PEDMSTR 051 ERROR - COLUMN 48 - INVALID POINTS WITH COMMON STACK, CARD REJECTED
 *** PEDMSTR 053 CONDITIONAL - COLUMN 52 - INVALID COMPLIANCE STATUS
 *** PEDMSTR 054 ERROR - COLUMN 53 - INVALID COMPLIANCE SCHEDULE, CARD REJECTED
 *** PEDMSTR 056 ERROR - COLUMN 57 - INVALID COMPLIANCE UPDATE, CARD REJECTED
 *** PEDMSTR 082 ERROR - COLUMN 63 - INVALID ECAP, CARD REJECTED

5500001112222800012201000212001 13A

B E R E FB R E RE R
 *** PEDMSTR 059 ERROR - COLUMN 21 - NON-NUMERIC POLLUTANT ID, CARD REJECTED
 *** PEDMSTR 060 ERROR - COLUMN 26 - NON-NUMERIC CONTROL EQUIPMENT COST, CARD REJECTED
 *** PEDMSTR 061 ERROR - COLUMN 33 - INVALID PRIMARY CONTROL EQUIPMENT, CARD REJECTED
 *** PEDMSTR 063 ERROR - COLUMN 36 - INVALID SECONDARY CONTROL EQUIPMENT, CARD REJECTED


```

*** PEDMSR 088 ERROR - COLUMN 49 - SECOND POLLUTANT ID IS NON-NUMERIC, CARD REJECTED
*** PEDMSR 089 ERROR - COLUMN 54 - SECOND EMISSION FACTOR IS NON-NUMERIC, CARD REJECTED
*** PEDMSR 090 CONDITIONAL - COLUMN 63 - SECOND ASH/SULFUR CODE IS INVALID
*** PEDMSR 091 WARNING - COLUMN 64 - SECOND EMISSION FACTOR UNITS CODE IS NON-NUMERIC

5500001112222800012233333398024 *
      R B
      F
      22A
*** PEDMSR 080 CONDITIONAL - COLUMN 31 - INVALID CONFIDENTIALITY, REPLACING WITH 1
*** PEDMSR 103 ERROR - COLUMN 33 - SOURCE DESCRIPTION FIELD CANNOT BE DELETED, CARD REJECTED

5500001112222800012233333399013
      R B
      F
      22A
*** PEDMSR 081 ERROR - COLUMN 31 - CONFIDENTIALITY OF 3 IS NOT ALLOWED, CARD REJECTED
*** PEDMSR 099 CONDITIONAL - COLUMN 33 - SOURCE DESCRIPTION BLANK FOR SEC 97, 98, OR 99

55000011122228000122301MFCUMMENT
      R B
      30A
*** PEDMSR 012 ERROR - COLUMN 21 - NON-NUMERIC PNR SEQUENCE NUMBER, CARD REJECTED
*** PEDMSR 013 ERROR - COLUMN 23 - NON-NUMERIC PNP LINE NUMBER, CARD REJECTED
*** PEDMSR 096 ERROR - COLUMN 26 - INVALID COMMENT FLAG, CARD REJECTED

```

```

NUMBER OF TRANSACTIONS READ: 66
NUMBER OF INTERNAL TRANSACTIONS WRITTEN: 4A
NUMBER OF TRANSACTIONS REJECTED: 1A
NUMBER OF ABORT MESSAGES: 0
NUMBER OF ERROR MESSAGES: 70
NUMBER OF CONDITIONAL MESSAGES: 33
NUMBER OF WARNING MESSAGES: 6

```

```

PROGRAM NAME: PEDMSR (EP0080)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

```

EIS/PS Test 19 - Ad Hoc

Generate Non-Abortive Error Messages of the Master File Maintenance Program

In this test run, the internal transaction files output from EIS/PS Tests 17 and 18 are concatenated using the cataloged procedure EPMST20 which executes PMSTCON (EP0190), the internal transaction file concatenation program. The concatenated file is used to generate non-abortive error messages of PFMMSTR (EP0120) by executing the cataloged procedure EPFMM10 which executes PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program.

Two internal transaction files are input to PMSTCON (EP0190) which concatenates them and produces one internal transaction file. This program does not perform any sequencing and it does not check for duplicate transactions. The internal transaction file output from PMSTCON (EP0190) is input to PSRINTR (EP0110) which sorts the file into the sequence required by PFMMSTR (EP0120). See Test 9 for a discussion of PMSTCON (EP0190) and Test 4 for a discussion of PSRINTR (EP0110) and PFMMSTR (EP0120).

The run stream for this test run contains the JCL needed to concatenate the two internal transaction files and perform the master file maintenance. An option card is input to PFMMSTR (EP0120) to supply the options necessary for this test run. The run stream for this test run is shown in Figure PST19-1. A listing of the transactions is shown in Figure PST19-2 since they are not included directly in the run stream.

Substitutable parameters are used when executing EPMST20 to supply the names of the two internal transaction files input to PMSTCON (EP0190) and the concatenated file output from PMSTCON (EP0190). The names of these files are EPINTR4, EPINTR5, and EPINTR6, respectively.

Substitutable parameters are also used when executing EPFMM10 to supply the names of the internal transaction file input to PSRINTR (EP0110), the master file input to PFMMSTR (EP0120), and the master file output from PFMMSTR (EP0120). The names of these files are EPINTR6, EPMSTR5 (created in Test 11), and EPMSTR6, respectively.

The DD (data definition) information for the option card input to PFMMSTR (EP0120) is also supplied in the run stream. The control year and the LIST option are purposely specified incorrectly on the option card so that messages 2 and 8 will be generated. All non-abortive error messages are not generated since many of them are redundant of error messages in PCENETR (EP0060) and PEDMSTR (EP0080). Sample output produced by this test run is shown in Figure PST19-3.

```

//PSTEST19 JOB      (ACCOUNTING INFO)
//*
//*  GENERATE NON-ABORTIVE ERROR MESSAGES OF PFMMSTR (EP0120)
//*
//STEP19A EXEC EPMST20,
//          INTRM1=EPINTR4,
//          INTRM2=EPINTR5,
//          CONCAT=EPINTR6
//*
//*  CONCATENATE TWO INTERNAL TRANSACTION FILES
//*
//STEP19B EXEC EPFMM10,
//          OLDMSTR=EPMSTR5,
//          NEWMSTR=EPMSTR6,
//          INTRTRN=EPINTR6
//*
//*  GENERATE ERROR MESSAGES OF PFMMSTR (EP0120) WHILE
//*  UPDATING A MASTER FILE
//*
//UPDATE.OPTIONS DD *
YY FLAG= LOST

```

Figure PST19-1. Run Stream

EIS/PS INTERNAL TRANSACTION FILE CONCATENATION PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PMSICUN (EP0190)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS FROM FILE 1: 6
 NUMBER OF INPUT TRANSACTIONS FROM FILE 2: 48
 TOTAL NUMBER OF INPUT TRANSACTIONS: 54
 NUMBER OF OUTPUT TRANSACTIONS: 54

EIS/PS MASTER FILE INTERNAL TRANSACTION SORT PROGRAM

PROGRAM NAME: PSRINTR (EP0110)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 54
 NUMBER OF OUTPUT TRANSACTIONS: 54

Figure PST19-3. Sample Output

DATE INCORPORATED: FEBRUARY 1, 1980

*** PFMSR 028 ERROR - INVALID INITIAL ADD CARD NUMBER
*** PFMSR 025 ERROR - ATTEMPT TO ADD SCC TO NONEXISTANT POINT

PAGE 4

FEIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES

*** PFMSYR 026 ERROR - INVALID INITIAL ADD CARD NUMBER
*** PFMSYR 026 ERROR - ATTEMPT TO ADD PUTN TO NONEXISTANT PLANT

11A

 *** PFMSTK 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT

11A

550000011020202020202100000000000000	11550000011122228000122	1111	2R0020600		1122334425853
*** PFMWSTR 034 ERROR - DUPLICATE TRANSACTION -				CARD REJECTED	
*** PFMWSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANT					

12A

[illegible]

17A

55000011102020202020210000000000000000121550000111222800012201000212001
 *** PFMWSTH 034 ERROR - DUPLICATE TRANSACTION - CARD REJECTED 02010604 R601A101317
 *** PFMWSTR 028 ERROR - INVALID INITIAL AND CARD NUMBER
 *** PFMWSTR 026 ERROR - ATTEMPT TO ADD POINT TO NONEXISTANT PLANI

13A

[illegible]

Part 5

FEIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES

NUMBER OF INPUT TRANSACTIONS READ	54
NUMBER OF DISASTERS DETECTED	0
NUMBER OF ABORTS DETECTED	0
NUMBER OF ERRORS DETECTED	59
NUMBER OF CONDITIONALS DETECTED	1
NUMBER OF WARNINGS DETECTED	1
NUMBER OF TRANSACTIONS REJECTED	36
NUMBER OF POINT SOURCE FILE RECORDS READ IN	162
NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT	169

EIS/PS Test 20 - Ad Hoc

Exercise All Options of the Master File Internal Transaction Emission Factor Insertion Program

In this test run, all options of PMSEFIN (EP0100) are exercised using the cataloged procedure EPMST10 which executes PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; and PMSEFIN (EP0100), the master file internal transaction emission factor insertion program.

The concatenated internal transaction file created in EIS/PS Test 19 is used as input to PSREFIN (EP0090) which sorts the file into the sequence required by PMSEFIN (EP0100). Refer to Test 4 for a discussion of these programs.

The run stream for this test run contains the JCL needed to execute the insertions procedure. It also contains the option card which is input to PMSEFIN (EP0100). The run stream for this test run is shown in Figure PST20-1.

Substitutable parameters are used to supply the names of the internal transaction file input to PSREFIN (EP0090), the emission factor file input to PMSEFIN (EP0100), and the internal transaction file output from PMSEFIN (EP0100). The names of these files are EPINTR6, EPEMFC2, (created in Test 3) and EPINTR7, respectively. The DD (data definition) information for the option card input to PMSEFIN (EP0100) is also supplied.

The options specified on the option card include sulfur content (SUL), ash content (ASH), and emission factor (EMISSION). These are the fields that will be inserted or overridden. The insert (I) and override (O) options are coded on the option card immediately following each selected field. The option card also contains two control dates; an emission factor file record date and a transaction date. No insertion will be made into a field if the date of the matching emission factor file record is prior to the emission factor file record date specified on the option card. Likewise, no insertion will be made into any transaction with a date prior to the transaction date specified on the option card. An 'R' is coded in column 80 of the option

card so that the date of each transaction will be replaced by the date of its associated emission factor file record. Also, the FLAGW option is specified causing all the warning messages to be printed in the diagnostic report. Sample output produced by this run stream is shown in Figure PST20-2.

```

//PSTEST20 JOB      (ACCOUNTING INFO)
//*
//*   EXERCISE ALL OPTIONS OF PMSEFIN (EP0100)
//*
// EXEC EPMST10,
//      OLDINTR=EPINTR6,
//      NEWINTR=EPINTR7,
//      EMFCFIL=EPFMFC2
//*
//*   EXECUTE AN EMISSION FACIOM INSERTION PROCEDURE
//*
//INSERT,OPTIONS DD *
FLAGW  SUI IO ASH IO EMISSION IO EDAI 78001 IDAT 79001

```

R

Figure PST20-1. Run Stream

ETS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSREFIN (EP0090)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

 NUMBER OF INPUT TRANSACTIONS: 54
 NUMBER OF OUTPUT TRANSACTIONS: 55

Figure PST20-2. Sample Output

MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

PROGRAM NAME: PMSEFIN (EP0100)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAGW

FIELDS SELECTED FOR INSERTIONS: SUL ASH EMISSION EDAT 78001 IDAT 79001

FIELDS TO BE OVERRIDDEN: SUL ASH EMISSION

SULFUR I 0 ASH I 0 EMISSION FACTOR I 0 DATE: EMISSION FACTOR 78001 TRANSACTION 79001

0619600530000040102022101022030100000211061960053004180001221010220301
 *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD 21A

0619600530000040102022101022030100000231061960053004180001221010220301F 11101
 *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD 23A

06196005300000401000121020230200000211061960053004180001011020230202
 *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD 21A

0619600530000040100012403001010000000231061960053000180001014030010100F 22104
 *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD 23A

0619600530000040100012403001010000000232061960053000180001014030010100F 33101
 *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD 23C

0619600530000040100022403001010100000231061960053004180001024030010101F 71101
 *** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD 23A

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MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

SULFUR 1 0 ASH 1 0 EMISSION FACTOR 1 0 DATE: EMISSION FACTOR 78001 TRANSACTION 79001

06196005300000040100022403001010100000211061960053004180001024030010101F 72202	S	23A
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD		
06196005300000040100022404001010100000211061960053004180001024040010101	F	21A
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD		
06196005300000040100022404001010100000211061960053004180001024040010101F 11101	A	23A
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD		
06196005300000000100052422122060000000211061960053000180001054221220600	F	21A
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD		
06196005300000000100052422122060000000211061960053000180001054221220600F311101		23A
*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD		

PROGRAM NAME: PMSEFIN (EP0100)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

SULFUR I 0 ASH I 0 EMISSION FACTOR I 0

DATE: EMISSION FACTOR 78001 TRANSACTION 79001

NUMBER OF INPUT TRANSACTIONS:	55
NUMBER OF EMISSION FACTOR RECORDS READ:	634
NUMBER OF INSERTIONS MADE:	1
NUMBER OF OUTPUT TRANSACTIONS:	55
NUMBER OF 23 TRANSACTIONS CREATED:	0
NUMBER OF WARNING MESSAGES:	11
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

EIS/PS Test 21 - Ad Hoc

Exercise Option 2 of the Master File Emissions Projection Program

In this test run, option 2 of PRPEPRJ (EP0250) is exercised using the cataloged procedure EPRPM50 which executes PRPEPRJ (EP0250), the master file emissions projection program.

The master file input to PRPEPRJ (EP0250) was created in Test 19. The control cards for option 2 of this program were created arbitrarily and are included in the run stream. See Test 12 for a discussion of PRPEPRJ (EP0250) and the control cards.

The run stream for this test run contains the JCL needed to produce an emissions projection report. The run stream for this test run is shown in Figure PST21-1.

Substitutable parameters are used to supply the names of the master file input to PRPEPRJ (EP0250) and the projection file output from PRPEPRJ (EP0250). The names of these files are EPMSTR6 and PROJFL2, respectively. The DD (data definition) information for the control cards input to PRPEPRJ (EP0250) is also supplied.

The projection file will contain all the records from the input master file; however, only records that are selected for projection will contain the calculated emissions projections. The file will also contain comment records to indicate that it was created by the emissions projection program, PRPEPRJ (EP0250).

Option 2 of PRPEPRJ (EP0250) calculates emissions projections for the SCC numbers specified on the control cards regardless of point or plant ID. A report is printed which lists the emissions projections of the criteria pollutants for each point of the input master file. Subtotals are printed for each state, county, AQCR, and plant. Cumulative totals for the entire report are printed on the final page. Sample output produced by this test run is shown in Figure PST21-2.

```

//PSTEST21 JOB      (ACCOUNTING INFO)
/**
/** EXERCISE OPTION 2 OF PRPEPRJ (EP0250)
/**
// EXEC FPRPM50,
//      MSTRFIL=EPMSTR6,
//      PROJFIL=PROJFL2
/**
/** EXECUTE AN EMISSIONS PROJECTION PROCEDURE FOR SPECIFIC SCC'S
/**
//PROJECT.OPTION DD *
40300101 0005000      025      600      950      2
40300102 0006000      020      030      920      2
40300104      +100      +010      +020      -035      2

```

Figure PST21-1. Run Stream

EIS/PS MASTER FILE EMISSIONS PROJECTION PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRPEPRJ (EP0250)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD	SCC	OPTION USED	THRUPUT	THRU	ASH	ASH	SUL	SUL	CDEF	CDEF	OPTION TYPE
			INC	INC	INC	INC	INC	INC	INC	INC	
40300101	0005000	025	600	950							2
40300102	0006000	020	030	920							2
40300104		+100	+010	+020	-035						2
OPTION COUNT	3	VALID OPTIONS	3								

ERROR MESSAGES - RECORD KEY IS STATE COUNTY AWCN PLANT YEAR DAY SEGMENT TYPE NEDS POINT ID
 XX / XXXX / XXX / XXXX / XX / XXX / X / XX

06196005300018000110101114121245409555712121051515202030301105470013709700900010010000000123001500900 281107912151 44 15 17SSSS
 *** PRPEPRJ 007 CONDITIONAL - NOT ALL EMISSIONS CAN BE CALCULATED FOR THIS POINT, PRESENT EMISSION USED

06196005300018000110101114121245409555712121051515202030301105470013709700900010010000000123001500900 281107912151 44 15 17SSSS
 *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

06196005300018000110101114121245409555712121051515202030301105470013709700900010010000000123001500900 281107912151 44 15 17SSSS
 *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

061960053000180113110011114121245409555712121051515202030301105470013709700900010010000000123001510900 281107912151 44 15 17SSSS
 *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

061960053000180113110011114121245409555712121051515202030301105470013709700900010010000000123001510900 281107912151 44 15 17SSSS
 *** PRPEPRJ 009 CONDITIONAL - PROJECTED EMISSION FOR THIS POINT WAS ZERO, PRESENT EMISSION USED

061960053000180065110101114121245409555712121051515202030301105470013709700900010010000000123001520900 281107912151 44 15 17SSSS
 *** PRPEPRJ 007 CONDITIONAL - NOT ALL EMISSIONS CAN BE CALCULATED FOR THIS POINT, PRESENT EMISSION USED

061960053000180148102011114121245409555712121051515202030301105470013709700900010010000000123001560900 281107912151 44 15 17SSSS
 *** PRPEPRJ 007 CONDITIONAL - NOT ALL EMISSIONS CAN BE CALCULATED FOR THIS POINT, PRESENT EMISSION USED

INPUT RECORD COUNT: 169
 SEGMENT 0: 32
 SEGMENT 1: 53
 SEGMENT 2: 69
 SEGMENT 3: 15

EIS/PS MASTER FILE EMISSIONS PROJECTION PROGRAM - DIAGNOSTIC REPORT

OUTPUT RECORD COUNT: 159
 SEGMENT 0: 33
 SEGMENT 1: 54
 SEGMENT 2: 69
 SEGMENT 3: 3

NUMBER OF CONDITIONAL MESSAGES: 0
 NUMBER OF ERROR MESSAGES: 7
 NUMBER OF ABORT MESSAGES: 0

COUNT OF POLLUTANT IDS BY EST METHOD	METHOD	NUMBER OF POLLUTANT IDS
	0	36
	1	9
	2	6
	3	143
	4	6
	5	5
	6	0
	7	15
	OTHER	34

EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

PAGE 1

STATE	COUNTY	AQCR	PLANT	POINT	POLL-ID	-----BASELINE MASTER FILE-----		EMISSIONS - TONS PER YEAR		-----PROJECTED FILE #-----		POTENTIAL
						CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL	
06	1960	053	0001	01	TSP-11101	100	6,667	100	1,250	100	1,250	
					CO -42101	100	6,667	100	1,250	100	1,250	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	1,050	11,290	1,050	11,290	1,050	11,290	
06	1960	053	0001	10	TSP-11101	100	6,667	100	1,250	100	1,250	
					CO -42101	100	6,667	100	1,250	100	1,250	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	0	0	0	0	0	0	
TOTAL	06	1960	053	0001	TSP-11101	200	13,334	200	2,500	200	2,500	
					CO -42101	200	13,334	200	2,500	200	2,500	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	1,050	11,290	1,050	11,290	1,050	11,290	
06	1960	053	0041	01	TSP-11101	0	0	0	0	0	0	
					CO -42101	0	0	0	0	0	0	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	230	15,333	230	15,333	230	15,333	
TOTAL	06	1960	053	0041	TSP-11101	51	3,400	51	1,020	51	1,020	
					CO -42101	230	15,333	230	1,020	230	1,020	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	230	15,333	230	15,333	230	15,333	
TOTAL	06	1960	053	053	TSP-11101	251	16,734	251	3,520	251	3,520	
					CO -42101	430	28,667	430	2,540	430	2,540	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	1,280	26,623	1,280	26,623	1,280	26,623	
TOTAL	06	1960	053	10	TSP-11101	251	16,734	251	3,520	251	3,520	
					CO -42101	430	28,667	430	2,540	430	2,540	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	1,280	26,623	1,280	26,623	1,280	26,623	
TOTAL	06	2004	AQW1	10	TSP-11101	100	6,667	100	6,667	100	6,667	
					CO -42101	100	6,667	100	6,667	100	6,667	
					SO2-42401	0	0	0	0	0	0	
					NOX-42602	0	0	0	0	0	0	
					HC -43101	0	0	0	0	0	0	

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Figure PST21-2 - continued. Sample Output

EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

PAGE 2

				EMISSIONS - TONS PER YEAR		PROJECTED FILE #		POTENTIAL	
				CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL
STATE	COUNTY	AQCR	PLANT	POINT	POLL-ID				
06	2004	053	AQW1	AB	TSP-11101	100	6,667	100	6,667
					CO -42101	100	6,667	100	6,667
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
06	2004	053	AQW1		TSP-11101	200	13,334	200	13,334
					CO -42101	200	13,334	200	13,334
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
06	2004	053			TSP-11101	200	13,334	200	13,334
					CO -42101	200	13,334	200	13,334
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
06	2004				TSP-11101	200	13,334	200	13,334
					CO -42101	200	13,334	200	13,334
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
06					TSP-11101	451	30,068	451	16,854
					CO -42101	630	42,001	402	15,874
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
08	0006	240	8001		TSP-11101	1,280	26,623	1,280	26,623
					CO -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
08	0008	240	8002	01	TSP-11101	0	0	0	0
					CO -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
08	0008	240	8002		TSP-11101	0	0	0	0
					CO -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
08	0008	240	8005	01	TSP-11101	0	0	0	0
					CO -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0

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Figure PST21-2 - continued. Sample Output

TOTAL	STATE	COUNTY	AQCR	PLANT	POINT	POLL-ID	EMISSIONS - TONS PER YEAR			
							-----BASELINE MASTER FILE-----	-----PROJECTED FILE-----	POTENTIAL	POTENTIAL
							CONTROLLED	CONTROLLED		
						TSP-11101	1,537	1,537	18,851	
						CO -42101	655	427	15,899	
						SU2-42401	1,565	1,565	1,565	
						NOX-42602	323	323	323	
						HC -43101	1,293	1,293	26,735	

EIS/PS Test 22 - Ad Hoc

Exercise Option 3 of the Master File Emissions Projection Program

In this test run, option 3 of PRPEPRJ (EP0250) is exercised using the cataloged procedure EPRPM50 which executes PRPEPRJ (EP0250), the master file emissions projection program.

The master file input to PRPEPRJ (EP0250) was created in EIS/PS Test 19. The control cards for option 3 of this program were created arbitrarily and are included in the run stream. See EIS/PS Test 12 for a discussion of PRPEPRJ (EP0250) and the control cards.

The run stream for this test run contains the JCL needed to produce an emissions projection report. The run stream for this test run is shown in Figure PST22-1.

Substitutable parameters are used to supply the names of the master file input to PRPEPRJ (EP0250) and the projection file output from PRPEPRJ (EP0250). The names of these files are EPMSTR6 and PROJFL3, respectively. The DD (data definition) information for the control cards input to PRPEPRJ (EP0250) is also supplied.

The projection file will contain all the records from the input master file; however, only records that are selected for projection will contain the calculated emissions projections. The file will also contain comment records to indicate that it was created by the emissions projection program, PRPEPRJ (EP0250).

Option 3 of PRPEPRJ (EP0250) calculates emissions projections for the plant/point combinations specified on the control cards. A report is printed which lists the emissions projections of the criteria pollutants for each point of the input master file. Subtotals are printed for each state, county, AQCR, and plant. Cumulative totals for the entire report are printed on the final page. Sample output produced by this test run is shown in Figure PST22-2.

```

//PSTEST22 JOB      (ACCOUNTING INFO)
//*
//*   EXERCISE OPTION 3 OF PRPEPRJ (EP0250)
//*
// EXEC FPRPMS0,
//      MSTRFIL=EPMSTR6,
//      PROJFIL=PROJFL3
//*
//*   EXECUTE AN EMISSIONS PROJECTION PROCEDURE FOR SPECIFIC
//*   PLANT/POINT COMBINATIONS
//*
//PROJCI,OPTION DD *
080008240800201  +050
080008240800081  -025
180040224000503  +200
180040224000507  OFF
340040203000801  +899

```

```

3
3
3
3
3

```

Figure PST22-1. Run Stream

PROGRAM NAME: PHPEPMT (EP0250)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD	FIXED OPTION USED - SELECTED PLANTS	OPTION TYPE
PLANT/POINT KEY INC/OFF		
060008240000201 +050		3
060008240000081 -025		3
180040224000503 +200		3
180040224000507 OFF		3
340040203000801 +R99		3

OPTION COUNT	5	VALID OPTIONS	5
--------------	---	---------------	---

INPUT RECORD COUNT:	169
SEGMENT 0:	32
SEGMENT 1:	53
SEGMENT 2:	69
SEGMENT 3:	15
OUTPUT RECORD COUNT:	160
SEGMENT 0:	33
SEGMENT 1:	54
SEGMENT 2:	69
SEGMENT 3:	4
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF ABORT MESSAGES:	0

COUNT OF POLLUTANT IDS BY EST METHOD	METHOD	NUMBER OF POLLUTANT IDS
	0	36
	1	9
	2	6
	3	143
	4	6
	5	5
	6	0
	7	15
	OTHER	34

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Figure PST22-2. Sample Output

EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

				-----BASELINE MASTER FILE-----		EMISSIONS - TONS PER YEAR		-----PROJECTED FILE # 1-----	
				CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL
06	1960	053	0001	01	TSP-11101	100	6,667	100	6,667
					CO -42101	100	6,667	100	6,667
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	1,050	11,290	1,050	11,290
06	1960	053	0001	10	TSP-11101	100	6,667	100	6,667
					CO -42101	100	6,667	100	6,667
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
					TSP-11101	200	13,334	200	13,334
					CO -42101	200	13,334	200	13,334
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	1,050	11,290	1,050	11,290
06	1960	053	0041	01	TSP-11101	0	0	0	0
					CO -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	230	15,333	230	15,333
					TSP-11101	51	3,400	51	3,400
					CO -42101	230	15,333	230	15,333
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
					TSP-11101	51	3,400	51	3,400
					CO -42101	230	15,333	230	15,333
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
06	1960	053	0041		TSP-11101	230	15,333	230	15,333
					CO -42101	251	16,734	251	16,734
					SO2-42401	430	28,667	430	28,667
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
					TSP-11101	1,280	26,623	1,280	26,623
					CO -42101	251	16,734	251	16,734
					SO2-42401	430	28,667	430	28,667
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
					TSP-11101	1,280	26,623	1,280	26,623
					CO -42101	100	6,667	100	6,667
					SO2-42401	100	6,667	100	6,667
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
06	2004	053	4041	10	TSP-11101	100	6,667	100	6,667
					CO -42101	100	6,667	100	6,667
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0

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Figure PST22-2 - continued. Sample Output

					-----BASELINE MASTER FILE-----		EMISSIONS - TONS PER YEAR		-----PROJECTED FILE # 1-----	
					CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL
06	2004	053	AQW1	AB	TSP-11101	100	6,667	100	6,667	6,667
					CO -42101	100	6,667	100	6,667	6,667
					NOX-42602	0	0	0	0	0
					HC -43101	0	0	0	0	0
					TSP-11101	200	13,334	200	13,334	13,334
06	2004	053	AQW1		CO -42101	200	13,334	200	13,334	13,334
					NOX-42602	0	0	0	0	0
					HC -43101	0	0	0	0	0
					TSP-11101	200	13,334	200	13,334	13,334
					CO -42101	200	13,334	200	13,334	13,334
06	2004	053			NOX-42602	0	0	0	0	0
					HC -43101	0	0	0	0	0
					TSP-11101	200	13,334	200	13,334	13,334
					CO -42101	200	13,334	200	13,334	13,334
					NOX-42602	0	0	0	0	0
06	2004				HC -43101	0	0	0	0	0
					TSP-11101	200	13,334	200	13,334	13,334
					CO -42101	200	13,334	200	13,334	13,334
					NOX-42602	0	0	0	0	0
					HC -43101	0	0	0	0	0
06					TSP-11101	451	30,068	451	30,068	30,068
					CO -42101	630	42,001	630	42,001	42,001
					NOX-42602	0	0	0	0	0
					HC -43101	0	0	0	0	0
					TSP-11101	1,280	26,623	1,280	26,623	26,623
06	0008	240	8001		CO -42101	0	0	0	0	0
					NOX-42602	0	0	0	0	0
					HC -43101	0	0	0	0	0
					TSP-11101	0	0	0	0	0
					CO -42101	0	0	0	0	0
06	0008	240	8002	01	NOX-42602	0	0	0	0	0
					HC -43101	0	0	0	0	0
					TSP-11101	0	0	0	0	0
					CO -42101	0	0	0	0	0
					NOX-42602	1	1	2	2	2
06	0008	240	8002		HC -43101	0	0	0	0	0
					TSP-11101	0	0	0	0	0
					CO -42101	0	0	0	0	0
					NOX-42602	1	1	2	2	2
					HC -43101	0	0	0	0	0
06	0008	240	8005	01	TSP-11101	0	0	0	0	0
					CO -42101	0	0	0	0	0
					NOX-42602	1	1	1	1	1
					HC -43101	0	0	0	0	0
					TSP-11101	0	0	0	0	0

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Figure PST22-2 - continued. Sample Output

FIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

				-----BASELINE MASTER FILE-----		EMISSIONS - TONS PER YEAR		-----PROJECTED FILE # 1-----	
				CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL	CONTROLLED	POTENTIAL
TOTAL	34	0040	203	000A					
					TSP-11101	0	0	0	0
					CU -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	1	1	10	10
					HC -43101	0	0	0	0
TOTAL	34	0040	203		TSP-11101	59	264	59	264
					CU -42101	7	7	7	7
					SO2-42401	190	190	190	190
					NOX-42602	62	62	71	71
					HC -43101	2	2	2	2
TOTAL	34	0040			TSP-11101	59	264	59	264
					CU -42101	7	7	7	7
					SO2-42401	190	190	190	190
					NOX-42602	62	62	71	71
					HC -43101	2	2	2	2
TOTAL	34	0080	053	0001	01	0	0	0	0
					TSP-11101	0	0	0	0
					CU -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
TOTAL	34	0080	053		TSP-11101	0	0	0	0
					CU -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
TOTAL	34	0080	053		TSP-11101	0	0	0	0
					CU -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
TOTAL	34	0080			TSP-11101	0	0	0	0
					CU -42101	0	0	0	0
					SO2-42401	0	0	0	0
					NOX-42602	0	0	0	0
					HC -43101	0	0	0	0
TOTAL	34	0080			TSP-11101	59	264	59	264
					CU -42101	7	7	7	7
					SO2-42401	190	190	190	190
					NOX-42602	62	62	71	71
					HC -43101	2	2	2	2

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Figure PST22-2 - continued. Sample Output

EIS/PS MASTER FILE EMISSIONS PROJECTION REPORT

TOTAL	STATE	COUNTY	AGGR	PLANT	POINT	POLL-ID	EMISSIONS - TONS PER YEAR			
							BASELINE MASTER FILE	CONTROLLED	PROJECTED FILE #	POTENTIAL
							POTENTIAL			
						TSP-11101	1,537	1,543	32,071	32,071
						CO -42101	655	657	42,028	42,028
						SO2-42401	1,565	1,620	1,620	1,620
						NOX-42602	323	342	342	342
						HC -43101	1,293	1,292	26,735	26,734

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Figure PST22-2 - continued. Sample Output

EIS/PS Test 23 - Ad Hoc

Produce a Quick Look Report and Answer File for Particulate Emissions and List the Answer File

In this test run, a quick look report and an answer file for particulate emissions is produced using the cataloged procedure EPRPM60 which executes PRTQLED (EP0260), the quick look edit program; PRTQLEX (EP0270), the quick look extract program; and PRPQUIK (EP0280), the quick look report program. The answer file output from PRTQLEX (EP0270) is printed in a detailed report using the cataloged procedure EPRPM20 which executes PRPMSTR (EP0210), the master file detailed report program.

The output produced by the quick look package is dependent upon the user-supplied control cards input to PRTQLED (EP0260). Each set of cards must begin with a \$\$\$SELECT card and end with a \$\$END card. The \$\$\$SELECT card signals the beginning of a quick look retrieval and can contain a report heading for the quick look report or the turnaround document. The \$\$END card signals the end of a quick look retrieval.

Between the \$\$\$SELECT card and the \$\$END card, the following cards are entered in order: from one to twenty 10 cards, a 20 card, a 30 card (optional), a 40 card (optional, unless QL is specified on the 20 card), a 41 card (optional if a 40 card is entered, not allowed otherwise), and a 42 card (optional if a 40 and a 41 card are entered, not allowed otherwise). The 10 card(s) specifies which records are to be selected from the EIS/PS master file for processing. The 20 card specifies the desired report type and/or output answer file. The 30 card specifies the order of the quick look report or turnaround document and can be used to specify page break/subtotalling for specific data elements. The 40, 41, and 42 cards specify the data fields to be included in the quick look report, the suppression of detail lines, and the totalling for specific data elements. A quick look report is generated for each card. The control card formats are shown in Figure PST23-1. A description of each field on the cards is provided in Figure PST23-2. The

quick look load sheets are provided in Figure PST23-3. The valid quick look data element abbreviations is shown in Figure PST23-4.

See EIS/PS Test 9 for a discussion of PRPMSTR (EP0210).

The run stream for this test run contains the JCL needed to produce a quick look report and answer file, and a listing of the answer file. The quick look report contains data from all records which passed the selection criteria. The answer file contains all of these records plus the records to which they are subordinate. Therefore, the answer file may be used exactly like a master file; however, the user should note that it is only a subset of the master file.

The answer file is not automatically listed by the quick look package. Hence, the master file detailed report program, PRPMSTR (EP0210), is executed for this purpose. The run stream for this test run is shown in Figure PST23-5.

Substitutable parameters are used when executing the procedure EPRPM60 to supply the names of the master file input to PRTQLEX (EP0270) and the answer file output from PRTQLEX (EP0270). The names of these files are EPMSTR6 and EPANSRA, respectively. A substitutable parameter is also used when executing the cataloged procedure EPRPM20 to supply EPANSRA as the name of the master file input to PRPMSTR (EP0210). The DD (data definition) information for the quick look control cards input to PRTQLED (EP0260) is also supplied. Sample output produced by this run stream is shown in Figure PST23-6.

\$\$SELECT Card

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
1 - 8	X - X	Alphanumeric	'\$\$SELECT'
9			Unused
10 - 72	X - X	Alphanumeric	Report Title
73 - 80			Unused

10 Card (Selection Criteria)

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
1 - 2	XX	Numeric	'10'
3			Unused
4	X	Special Character	Left Parenthesis
5			Unused
6 - 9	XXXX	Alphanumeric	Data Abbreviation
10			Unused
11	X	Special Character	Relational Operator
12			Unused
13 - 24	X - X	Alphanumeric	Test Value
25			Unused
26	X	Special Character	Right Parenthesis
27			Unused
28 - 30	XXX	Special Characters	Boolean Operator
31 - 80			Unused

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Figure PST23-1. Format of Quick Look Retrieval Specification Cards

20 Card (Output Specifications)

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
1 - 2	XX	Numeric	'20'
3			Unused
4 - 5	XX	Special Characters	Report Code
6			Unused
7 - 8	XX	Special Characters	Report Code
9 - 80			Unused

30 Card (Report Order, Page Break/Subtotalling Specifications)

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
1 - 2	XX	Numeric	'30'
3			Unused
4 - 7	XXXX	Alphanumeric	Data Abbreviation
8	X	Special Character	Page Break/ Subtotalling Request
9			Unused
10 - 13	XXXX	Alphanumeric	Data Abbreviation
14	X	Special Character	Page Break/ Subtotalling Request
15			Unused
16 - 19	XXXX	Alphanumeric	Data Abbreviation

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Figure PST23-1 - continued. Format of Quick Look
Retrieval Specification Cards

30 Card - continued

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
20	X	Special Character	Page Break/ Subtotalling Request
21			Unused
22 - 25	XXXX	Alphanumeric	Data Abbreviation
26	X	Special Character	Page Break/ Subtotalling Request
27			Unused
28 - 31	XXXX	Alphanumeric	Data Abbreviation
32	X	Special Character	Page Break/ Subtotalling Request
33			Unused
34 - 37	XXXX	Alphanumeric	Data Abbreviation
38	X	Special Character	Page Break/ Subtotalling Request
39 - 80			Unused

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Figure PST23-1 - continued. Format of Quick Look
Retrieval Specification Cards

40, 41, 42 Cards (Quick Look Report Formats for One, Two, or Three Reports)

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
1 - 2	XX	Numeric	'40', '41', or '42'
3			Unused
4	X	Special Character	Suppression Request
5			Unused
6 - 9	XXXX	Alphanumeric	Data Abbreviation
10	X	Special Character	Totalling Request
11			Unused
12 - 15	XXXX	Alphanumeric	Data Abbreviation
16	X	Special Character	Totalling Request
17			Unused
18 - 21	XXXX	Alphanumeric	Data Abbreviation
22	X	Special Character	Totalling Request
23			Unused
24 - 27	XXXX	Alphanumeric	Data Abbreviation
28	X	Special Character	Totalling Request
29			Unused
30 - 33	XXXX	Alphanumeric	Data Abbreviation
34	X	Special Character	Totalling Request
35			Unused
36 - 39	XXXX	Alphanumeric	Data Abbreviation

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Figure PST23-1 - continued. Format of Quick Look
Retrieval Specification Cards

40, 41, 42 Cards - continued

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
40	X	Special Character	Totalling Request
41			Unused
42 - 45	XXXX	Alphanumeric	Data Abbreviation
46	X	Special Character	Totalling Request
47			Unused
48 - 51	XXXX	Alphanumeric	Data Abbreviation
52	X	Special Character	Totalling Request
53			Unused
54 - 57	XXXX	Alphanumeric	Data Abbreviation
58	X	Special Character	Totalling Request
59			Unused
60 - 63	XXXX	Alphanumeric	Data Abbreviation
64	X	Special Character	Totalling Request
65 - 80			Unused

\$\$END Card

<u>Columns</u>	<u>Format</u>	<u>Symbol</u>	<u>Description</u>
1 - 5	XXXXX	Special Characters	'\$\$END'
6 - 80			Unused

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Figure PST23-1 - continued. Format of Quick Look
Retrieval Specification Cards

\$\$SELECT Card: This card is required and signals the beginning of the quick look specification cards.

1. '\$\$SELECT': Required.
2. Report Title: Enter a title to appear on the quick look report or reports (see 40, 41 and 42 cards) or on the turnaround document. The title will also appear on the diagnostic report produced by the quick look edit program. The title should be chosen carefully because it is the only means of identifying a report which has been separated from the run stream. A date may be included in the title to date the reports.

10 Card: One 10 card is required, up to twenty 10 cards are allowed to specify the selection criteria.

1. '10': Required.
2. Left Parenthesis: Enter '(' if this 10 card is the first of a number of 10 cards to be grouped together.
3. Data Abbreviation: Enter one of the valid abbreviations for data fields on the master file. The valid abbreviations are shown in Figure 6.5.2-d. The data field specified by the data abbreviation will be compared to the test value to determine which records from the master file are to be selected for processing.
4. Relational Operator: Enter one of the following codes: 'E' for equal, 'U' for unequal, 'G' for greater than, 'L' for less than, 'P' for present (non-blank), or 'B' for blank.

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Figure PST23-2. Description of Quick Look Retrieval Specification Fields

5. Test Value: This field is left blank if the relational operator is P or B. Otherwise enter a value (beginning in column 13) to which the field specified by the data abbreviation will be compared. The length of the test value should equal the length (on the master file) of the data field being compared. If the data field is over 12 characters in length, the twelve characters in the test value field are compared to the first 12 characters of the field on the master file. Numeric test values must be expressed as they appear on the master file: zero-filled and with no decimal. For example, for control equipment cost, a test value of \$2500.00 would be entered as 0250000.
6. Right Parenthesis: Enter ')' if this 10 card is the last of a number of 10 cards to be grouped together.
7. Boolean operator: Enter 'AND' or 'OR ' if the relational expression on this 10 card is to be combined with the relational expression on the next 10 card by the 'AND' or 'OR' boolean operator. This field must be blank on the last 10 card. If this field is blank on any but the last 10 card, it is assumed to have a value of 'AND'.

20 Card: This card is required to specify the outputs desired.

1. '20': Required.
2. Report Code: Enter one of the following codes to specify the desired output: 'QL' for quick look report, 'TA' for turnaround document, 'AF' for answer file. Only one of 'QL' and 'TA' may be specified in a given execution of the quick look programs, but 'AF' may be specified in

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Figure PST23-2 - continued. Description of Quick Look
Retrieval Specification Fields

conjunction with either of the other two codes. The codes may be entered in any order on the 20 card.

30 Card: This card is optional. It specifies the order of the quick look report or turnaround document and includes page break/subtotalling requests for the quick look report.

1. '30': Required.
2. Data Abbreviation: Enter one of the valid abbreviations for data fields on the master file. The valid abbreviations are shown in Figure 6.5.2-d. Enter abbreviations from left to right on the 30 card in the order of their priority in the sort order of the reports. The report order specified will determine the order of data in the quick look report or the turnaround document, but will not affect the order of the answer file. (The answer file will have the same order as the input master file.) The sorts are always in ascending order with the specified data fields.
3. Page Break/Subtotalling Request: Each page break/subtotalling request is associated with the data abbreviation immediately preceding it on the 30 card. Enter 'X' to request a page break in the quick look report when the data field represented by the associated data abbreviation changes in value. If totals are requested on the 40, 41, or 42 card for any data field in the quick look report, a subtotal for the field(s) will be printed before the page break in the quick look report(s). A page break/subtotalling request on the 30 card and a totalling request on the 40, 41, or 42 card cannot be entered for the same data element. The page

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Figure PST23-2 - continued. Description of Quick Look
Retrieval Specification Fields

break/subtotalling request does not affect the turnaround document or the answer file.

40, 41, 42 Cards: These cards are optional. They are entered when QL is specified on the 20 card. They specify the content of quick look reports. They may also specify totalling of certain fields and suppression of all but the total lines. Each card generates a quick look report.

1. '40', '41', or '42': Required. The following combinations are allowed: A 40 card, a 40 card followed by a 41 card, a 40 card followed by a 41 card followed by a 42 card. The 41 and 42 cards specify additional report formats from the same quick look retrieval run.
2. Suppression Request: Enter 'X' to suppress the printing of detailed lines in the quick look report (only headings, subtotals, and totals would be printed). If suppression is requested, totalling of at least one data field must be requested on the same 40, 41, or 42 card and page break/subtotalling must be requested for at least one data field on the 30 card. Also, each data field for which page break/subtotalling is requested on the 30 card must be listed on the 40, 41, or 42 card. These fields must appear in the same order on the 40, 41, or 42 card as they appear on the 30 card.
3. Data Abbreviation. Enter one of the valid abbreviations for data fields on the master file. The valid abbreviations and data element lengths are shown in Figure 6.5.2-d. The total of the lengths of the elements on any 40, 41, or 42 card cannot exceed 132 characters. To determine the total lengths, sum the lengths for the data elements found in Figure 6.5.2-d

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Figure PST23-2 - continued. Description of Quick Look
Retrieval Specification Fields

under the column "Data Element Length In Quick Look Report" or, if the data element is totalled, "Data Element Length In Quick Look Report If Totalled." If the total exceeds 132, delete some of the fields or break the report into two quick look reports. Enter abbreviations left to right on the 40, 41, or 42 card in the order that the data fields are to appear in the quick look report. If a 30 card is entered that specifies page break/subtotalling when certain data fields change in value, the fields for which page break/subtotalling is requested must be entered on the 40, 41, or 42 card in the same order that they appear on the 30 card.

4. Totalling Request. Each totalling request is associated with the data abbreviations immediately preceding it on the 40, 41, or 42 card. Enter 'X' to request the totalling of the associated data field. A totalling request is allowed for those data elements having an entry under "Data Element Length In Quick Look Report If Totalled" in Figure 6.5.2-d. If page break/subtotalling requests are entered on the 30 card, subtotals will be computed before each page break. A totalling request on the 40, 41, or 42 card and a page break/subtotalling request on the 30 card cannot be entered for the same data element. When a totalling request is entered on a 40, 41, or 42 card for a data element, NO data element from a subordinate master file segment should be entered on that 40, 41, or 42 card.

\$\$END Card: This card is required and signals the end of the quick look retrieval specifications.

1. '\$\$END': Required.

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Figure PST23-2 - continued. Description of Quick Look
Retrieval Specification Fields

DATE _____

[illegible]

RELATIONAL OPERATORS:

E — EQUAL
U — UNEQUAL
G — GREATER THAN
L — LESS THAN
P — PRESENT
B — BLANK

AND/OR MUST BE
BLANK ON LAST 10
CARD

[illegible]

REPORT CODES:

		RPT CODE	RPT CODE
1 2	4 5	7 8	
2 0			

AF - ANSWER FILE

TA - TURNAROUND DOCUMENT

Q1 - QUICK LOOK REPORT

ENTER DATA ABBREVIATIONS LEFT TO RIGHT
ENTER X FOR PAGE BREAK/SUBTOTALLING

[illegible]

ENTER X FOR SUP-
PRESSION OF DE-
TAIL LINES AND
FOR TOTALS

[illegible]

	S I S E I N D
	' ,

EIS/PS QUICK LOOK RETRIEVAL

PAGE 2

DATA ELEMENT LENGTH						DATA ELEMENT LENGTH					
DATA ELEMENT	ABBREVIATION	POSITION IN MASTER FILE	IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED	DATA ELEMENT	ABBREVIATION	POSITION IN MASTER FILE	IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
DATA ELEMENTS COMMON TO ALL SEGMENTS						POINT SEGMENT DATA ELEMENTS (continued)					
AQCR	AQCR	50	3	5		State	ISTT	44	2	5	
County	CNTY	46	4	5		Throughput	THPU	96	8	9	
Plant	PLNT	53	4	5		Throughput/Dec-Feb	WNTR	96	2	5	
Segment Date	DATE	57	5	6		Throughput/Jun-Aug	SUMM	100	2	5	
Segment Day	DAY	59	3	5		Throughput/Mar-May	SPNG	98	2	5	
Segment ID	SEGM	57	2	5		Throughput/Sep-Nov	FALL	102	2	5	
Segment Year	YEAR	62	1	5		User Point ID	UPID	65	3	5	
State	STTE	44	2	5		UTM Coordinates	UTMC	74	9	10	
DATA ELEMENTS COMMON TO POINT, SCC, and COMMENT SEGMENTS						UTM Horizontal	HORZ	74	4	6	
NEDS Point ID	NPID	63	2	5		UTM Vertical	VERT	78	5	7	
PLANT SEGMENT DATA ELEMENTS						Velocity	VELO	135	5	6	
AQCR	AQCR	50	3	5		Repeating Point Segment Data Elements (POLL must be specified)					
City	CITY	82	4	5		Control Equipment	CEQP	253	6	7	
Contact	CONT	89	15	16		Control Equip. Cost	LCST	246	7	9	14
County	CNTY	46	4	5		Emission Units	EUNT	230	1	5	
Local Control	LCON	68	2	5		Emissions Allowable	ALLO	276	7	8	12
Mailing Address	MAIL	182	48	49		Emissions Estimate	ESTI	262	7	8	13
Name and Address	NAME	124	48	49		Emissions Measured	MEAS	269	7	8	13
No. of Employees	NUME	172	4	5		Est. Control Efficiency	ECEF	259	1	5	
Ownership	OWNS	88	1	5	9	Estimation Method	ESTM	251	1	5	
Plant ID	PLIN	53	4	5		Pollutant ID	POLL*	241	5	6	
Principal Product	PROD	114	10	11		Primary Control Equip	PCTL	253	3	5	
Property Area	PROP	176	6	8	13	Secondary Control Equip	SCTL	256	3	5	
Segment Date	DATE	57	5	6		Test Method	TSTM	292	1	5	
Segment Day	DAY	59	3	5		SCC SEGMENT DATA ELEMENTS					
Segment ID	SEGM	62	1	5		AQCR	2AQC	50	3	5	
Segment Year	YEAR	57	2	5		Ash Content	ASHC	98	3	5	
State	STTE	44	2	5		BEC Code	BECG	75	5	6	
Telephone	TELE	104	10	11		BEC ID	BECI	78	2	5	
User Control Region	UCON	65	3	5		BEC Number	BECN	75	3	5	
User Plant ID	UPLT	70	12	13		Confidentiality	CONF	106	1	5	
UTM Zone	UTMZ	86	2	5		County	2CNT	46	4	5	
POINT SEGMENT DATA ELEMENTS						Emission Factor Source	EMFS	133	1	5	
AQCR	AQCR	50	3	5		Fuel Process Rate	FPRT	81	7	8	13
Boiler Design Capacity	BOIL	109	5	11	11	Fuel Units	FUNT	80	1	5	
Control Regulations	CREG	160	12	13		Heat Content	HEAT	101	5	6	
Control Regulation 1	REG1	160	4	5		Maximum Design Pate	MDRT	88	7	9	14
Control Regulation 2	REG2	164	4	5		NEDS Point ID/Segment 2	S2ID	63	2	5	
Control Regulation 3	REG3	168	4	5		No. of Emission Factors	NEMF	197	2	5	
Compliance Schedule	CSCH	149	4	5		Plant ID	2PLN	53	4	5	
Comp. Schedule Year	SCYH	149	2	5		Source Class. Code	SCCC	65	8	9	
Comp. Schedule Month	SCMH	151	2	5		SCC 1	SCC1	65	1	5	
Compliance Status	CSTT	148	1	5		SCC 2	SCC2	66	2	5	
Compliance Update	CUPD	153	6	7		SCC 3	SCC3	68	3	5	
Comp. Update Day	CUDY	157	2	5		SCC 4	SCC4	71	2	5	
Comp. Update Month	CUMN	155	2	5		SCC Sequence Number	SSQN	73	2	5	
Comp. Update Year	CUYR	153	2	5		Segment Date	2DTC	57	3	5	
County	CNTY	46	4	5		Segment Day	2DAY	59	3	5	
ECAP	ECAP	159	1	5		Segment ID	2SEC	62	1	5	
Exhaust Flow Rate	FLOW	128	7	8		Segment Year	2YER	57	2	5	
IPPR Code	IPPC	72	2	5		Source Code	SRCC	107	1	5	
Latitude	LATT	83	6	7		Source Description	SRCD	108	25	26	
Latitude Degree	LATD	83	2	5		State	2STT	44	2	5	
Latitude Minute	LATM	85	2	5		Sulfur Content	SULC	95	3	5	
Latitude Second	LATS	87	2	5		REPEATING SCC SEGMENT DATA ELEMENTS (MPID must be specified)					
Longitude	LONG	89	7	8		Ash/Sulfur Code	ASSC	214	1	5	
Longitude Degree	LONG	89	3	5		Emission Factor	EMFA	204	9	11	
Longitude Minute	LONG	92	2	5		Emission Factor Units	EMFU	215	1	5	
Longitude Second	LONS	94	2	5		Pollutant ID	MPID*	199	5	6	
NEDS Point ID/SEGMENT	SIID	63	2	5		COMMENT SEGMENT DATA ELEMENTS					
Normal Operating Rate	NORM	104	5	6		AQCR	3AQC	50	3	5	
Number of Pollutants	NUMP	239	2	5		Comments	COMM	71	102	99	
Plant ID	PLIN	53	4	5		County	3CNT	46	4	5	
Plume Height	PLUM	140	4	5		Left Comment	LCMT	71	51	52	
Point IDs	PTID	63	5	6		Line Number	LINE	67	3	5	
Points w/ Common Stack	PWCS	144	4	5		NEDS Point ID/Segment 3	S3ID	63	2	5	
Segment Date	DATE	57	5	6		Plant ID	3PLN	53	4	5	
Segment Day	DAY	59	3	5		PHR Sequence Number	SEQN	65	2	5	
Segment ID	SEGM	62	1	5		Right Comment	RCHT	122	51	52	
Segment Year	YEAR	57	2	5		Segment Date	3DTE	57	3	5	
STC Code	STCC	68	4	5		Segment Day	3DAY	59	3	5	
Space Heat %	SPAC	114	3	5		Segment ID	3SEGM	62	1	5	
Stack Data	STAD	117	27	28		Segment Year	3YER	57	2	5	
Stack Diameter	DIAM	121	3	5							
Stack Height	HGHT	117	4	5							
Stack Temperature	TEMP	124	4	5							

denotes zero

* Relational Operator Must Be E

** Only fields having an entry in this column are eligible for totalling.

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Figure PST23-3 - continued. Quick Look Retrieval Load Sheets

DATA ELEMENTS COMMON TO ALL SEGMENTS					
DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	AQCR	50	3	5	N/A
County	CNTY	46	4	5	N/A
Plant	PLNT	53	4	5	N/A
Segment Date	DATE	57	5	6	N/A
Segment Day	DAYY	59	3	5	N/A
Segment ID	SEGM	57	2	5	N/A
Segment Year	YEAR	62	1	5	N/A
State	STTE	44	2	5	N/A

DATA ELEMENTS COMMON TO POINT, SCC, and COMMENT SEGMENTS					
NEDS Point ID	NPID	63	2	5	N/A

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Figure PST23-4. Quick Look Data Element Abbreviations

PLANT SEGMENT DATA ELEMENTS					
DATA ELEMENT	ABBRE- VIATION	DATA ELEMENT LENGTH			
		POSITION IN MASTER FILE	IN MASTER FILE	IN QUICK LOOK REPORT	
				LOOK REPORT IF TOTALLED	
AQCR	OAQC	50	3	5	N/A
City	CITY	82	4	5	N/A
Contact	CONT	89	15	16	N/A
County	OCNT	46	4	5	N/A
Local Control	LCON	68	2	5	N/A
Mailing Address	MAIL	182	48	49	N/A
Name and Address	NAAD	124	48	49	N/A
No. of Employees	NUME	172	4	5	9
Ownership	OWNS	88	1	5	N/A
Plant ID	OPLN	53	4	5	N/A
Principal Product	PROD	114	10	11	N/A
Property Area	PROP	176	6	8	13
Segment Date	ODTE	57	5	6	N/A
Segment Day	ODAY	59	3	5	N/A
Segment ID	OSEG	62	1	5	N/A
Segment Year	OYER	57	2	5	N/A
State	OSTT	44	2	5	N/A
Telephone	TELE	104	10	11	N/A
User Control Region	UCON	65	3	5	N/A
User Plant ID	UPLT	70	12	13	N/A
UTM Zone	UTMZ	86	2	5	N/A
0 Denotes zero					

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

POINT SEGMENT DATA ELEMENTS

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	1AQC	50	3	5	N/A
Boiler Design Capacity	BOIL	109	5	11	11
Control Regulations	CREG	160	12	13	N/A
Control Regulation 1	REG1	160	4	5	N/A
Control Regulation 2	REG2	164	4	5	N/A
Control Regulation 3	REG3	168	4	5	N/A
Compliance Schedule	CSCH	149	4	5	N/A
Comp. Schedule Month	SCHM	151	2	5	N/A
Comp. Schedule Year	SCHY	149	2	5	N/A
Compliance Status	CSTT	148	1	5	N/A
Compliance Update	CUPD	153	6	7	N/A
Comp. Update Day	CUDY	157	2	5	N/A
Comp. Update Month	CUMN	155	2	5	N/A
Comp. Update Year	CUYR	153	2	5	N/A
County	1CNT	46	4	5	N/A
ECAP	ECAP	159	1	5	N/A
Exhaust Flow Rate	FLOW	128	7	8	N/A
IPP Code	IPPC	72	2	5	N/A
Latitude	LATT	83	6	7	N/A
Latitude Degree	LATD	83	2	5	N/A
Latitude Minute	LATM	85	2	5	N/A
Latitude Second	LATS	87	2	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

POINT SEGMENT DATA ELEMENTS (continued)

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	DATA ELEMENT LENGTH		
			IN MASTER FILE	IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Longitude	LONG	89	7	8	N/A
Longitude Degree	LOND	89	3	5	N/A
Longitude Minute	LONM	92	2	5	N/A
Longitude Second	LONS	94	2	5	N/A
NEDS Point ID/SEGMENT 1	SLID	63	2	5	N/A
Normal Operating Rate	NORM	104	5	6	N/A
Number of Pollutants	NUMP	239	2	5	N/A
Plant ID	1PLN	53	4	5	N/A
Plume Height	PLUM	140	4	5	N/A
Point IDs	PTID	63	5	6	N/A
Points w/ Common Stack	PWCS	144	4	5	N/A
Segment Date	1DTE	57	5	6	N/A
Segment Day	1DAY	59	3	5	N/A
Segment ID	1SEG	62	1	5	N/A
Segment Year	1YER	57	2	5	N/A
SIC Code	SICC	68	4	5	N/A
Space Heat %	SPAC	114	3	5	N/A
Stack Data	STAD	117	27	28	N/A
Stack Diameter	DIAM	121	3	5	N/A
Stack Height	HGHT	117	4	5	N/A
Stack Temperature	TEMP	124	4	5	N/A
State	1STT	44	2	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

POINT SEGMENT DATA ELEMENTS (continued)

DATA ELEMENT	ABBRE- VIATION	POSITION MASTER FILE	IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Throughput	THRU	96	8	9	N/A
Throughput/Dec-Feb	WNTR	96	2	5	N/A
Throughput/Jun-Aug	SUMM	100	2	5	N/A
Throughput/Mar-May	SPNG	98	2	5	N/A
Throughput/Sep-Nov	FALL	102	2	5	N/A
User Point ID	UPID	65	3	5	N/A
UTM Coordinates	UTMC	74	9	10	N/A
UTM Horizontal	HORZ	74	4	6	N/A
UTM Vertical	VERT	78	5	7	N/A
Velocity	VELO	135	5	6	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

REPEATING POINT SEGMENT DATA ELEMENTS

(POLL must be specified)

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Control Equipment	CEQP	253	6	7	N/A
Control Equip. Cost	CCST	246	7	9	14
Emission Units	EUNT	290	1	5	N/A
Emissions Allowable	ALLO	276	7	8	13
Emissions Estimate	ESTI	262	7	8	13
Emissions Measured	MEAS	269	7	8	13
Est Control Efficiency	ECEF	259	3	5	N/A
Estimation Method	ESTM	291	1	5	N/A
Pollutant ID	POLL	241	5	6	N/A
Primary Control Equip	PCTL	253	3	5	N/A
Secondary Control Equip	SCTL	256	3	5	N/A
Test Method	TSTM	292	1	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

SCC SEGMENT DATA ELEMENTS					
DATA ELEMENT	ABBRE- VIATION	POSITION MASTER FILE	IN IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	2AQC	50	3	5	N/A
Ash Content	ASHC	98	3	5	N/A
BEC Code	BECC	75	5	6	N/A
BEC ID	BECI	78	2	5	N/A
BEC Number	BECN	75	3	5	N/A
Confidentiality	CONF	106	1	5	N/A
County	2CNT	46	4	5	N/A
Emission Factor Source	EMFS	133	1	5	N/A
Fuel Process Rate	FPRT	81	7	8	13
Fuel Units	FUNT	80	1	5	N/A
Heat Content	HEAT	101	5	6	N/A
Maximum Design Rate	MDRT	88	7	9	14
NEDS Point ID/Segment 2	S2ID	63	2	5	N/A
No. of Emission Factors	NEMF	197	2	5	N/A
Plant ID	2PLN	53	4	5	N/A
Source Classification					
Code	SCCC	65	8	9	N/A
SCC 1	SCC1	65	1	5	N/A
SCC 2	SCC2	66	2	5	N/A
SCC 3	SCC3	68	3	5	N/A
SCC 4	SCC4	71	2	5	N/A
SCC Sequence Number	SSQN	73	2	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

SCC SEGMENT DATA ELEMENTS (continued)

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Segment Date	2DTE	57	5	6	N/A
Segment Day	2DAY	59	3	5	N/A
Segment ID	2SEG	62	1	5	N/A
Segment Year	2YER	57	2	5	N/A
Source Code	SRCC	107	1	5	N/A
Source Description	SRCD	108	25	26	N/A
State	2STT	44	2	5	N/A
Sulfur Content	SULC	95	3	5	N/A

Repeating SCC SEGMENT DATA ELEMENTS

(MPID must be specified)

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
Ash/Sulfur Code	ASSC	214	1	5	N/A
Emission Factor	EMFA	204	9	11	N/A
Emission Factor Units	EMFU	215	1	5	N/A
Pollutant ID	MPID	199	5	6	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

COMMENT SEGMENT DATA ELEMENTS

DATA ELEMENT	ABBRE- VIATION	POSITION IN MASTER FILE	IN MASTER FILE	DATA ELEMENT LENGTH	
				IN QUICK LOOK REPORT	IN QUICK LOOK REPORT IF TOTALLED
AQCR	3AQC	50	3	5	N/A
Comments	COMM	71	102	99	N/A
County	3CNT	46	4	5	N/A
Left Comment	LCMT	71	51	52	N/A
Line Number	LINE	67	3	5	N/A
NEDS Point ID/Segment 3	S3ID	63	2	5	N/A
Plant ID	3PLN	53	4	5	N/A
PNR Sequence Number	SEQN	65	2	5	N/A
Right Comment	RCMT	122	51	52	N/A
Segment Date	3DTE	57	5	6	N/A
Segment Day	3DAY	59	3	5	N/A
Segment ID	3SEG	62	1	5	N/A
Segment Year	3YER	57	2	5	N/A

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Figure PST23-4 - continued. Quick Look Data Element Abbreviations

```

//PSTEST23 JOB      (ACCOUNTING INFO)
/**
/** RETRIEVE AN ANSWER FILE; THEN PRODUCE TWO
/** REPORTS FOR IT, FIRST, A QUICK LOOK REPORT, AND
/** THEN A DETAILED LISTING
/**
//TEST23A EXEC EPRPM60,
//      MSTRFIL=FPMSR6,
//      ANSWFIL=FPANSRA
/**
/** - PRODUCE THE ANSWER FILE AND QUICK LOOK
/** REPORT FOR SUSPENDED PARTICULATES
/**
//EDIT1.INPUT DD *
$SELECT          PARTICULATE EMISSIONS BY STATE AND COUNTY      01/01/80
10  THRU G 00000000      AND
10  POLL F 11101          AND
10  ESTI G 00000000
20  Q1 AF
30  STTFX CNTYX AQCR
40  STTF CNTY AQCR PLNT NPID ESTIX
$END
//TEST23R EXEC EPRPM20,
//      MSTRFIL=FPANSRA
/**
/** PRODUCE A DETAILED LISTING OF THE ANSWER FILE FROM STEP A
/**

```

Figure PST23-5. Run Stream

```

.....
FIS/PS QUICK LOOK EDIT PROGRAM - DIAGNOSTIC REPORT
.....
PROGRAM NAME: PMTULED (LEP0260)
REVISION LEVEL: 11-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
.....
TITLE      PARTICULATE EMISSIONS BY STATE AND COUNTY 01/01/80
.....

```

SELECTION CRITERIA

```

10 THRU G 00000000      AND
10 POLL E 11101        AND
10 ESTI G 00000000

```

REPORT FORMATS

20 WL AF

REPORT SEQUENCE

```

30 STIEX CNTYX AQCR      PAGE BREAK/SUBTOTAL
STATE                    PAGE BREAK/SUBTOTAL
COUNTY
AQCR

```

QUICK LOOK DATA ELEMENTS - REPORT ONE

```

40 STIE CNTY AQCR PLNT NPID ESTIX
STATE
COUNTY
AQCR
PLANT ID
NEDS POINT ID
EMISSIONS ESTIMATE      TOTAL

```

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Figure PST23-6. Sample Output

PROGRAM NAME: PRIMLEX (EP0270)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ: 169
 NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN: 25
 NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN: 0
 NUMBER OF ANSWER FILE RECORDS WRITTEN: 38

..... EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM PAGE 1
 PARTICULATE EMISSIONS BY STATE AND COUNTY 01/01/80
 SITE CNTY AUCR PLNT NPTD E-W-ESTI
 06 1960 053 0001 01 0000100
 06 1960 053 0001 10 0000100
 06 1960 053 0041 02 0000051
 00000000251
 NUMBER OF RECORDS IN THIS CNTY IS 3

(Page 2 of 8)

Figure PST23-6 - continued. Sample Output

```

.....
EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM
.....
PARTICULATE EMISSIONS BY STATE AND COUNTY 01/01/80
.....
SITE CNTY AQCR PLNT NPIO EM-ESTI
.....
06 2004 053 AQCR1 1W 0000100
06 2004 053 AQCR1 4M 0000100
NUMBER OF RECORDS IN THIS CNTY IS 2
NUMBER OF RECORDS IN THIS SITE IS 5

```

PAGE 2

```

.....
EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM
.....
PARTICULATE EMISSIONS BY STATE AND COUNTY 01/01/80
.....
SITE CNTY AQCR PLNT NPIO EM-ESTI
.....
34 0040 203 0001 01 0000003
34 0040 203 0001 02 0000003
34 0040 203 0001 03 0000003
34 0040 203 0001 04 0000003
34 0040 203 0003 01 0000001
34 0040 203 0005 01 0000045
34 0040 203 0005 02 0000001
NUMBER OF RECORDS IN THIS CNTY IS 7
NUMBER OF RECORDS IN THIS SITE IS 7
TOTAL NUMBER OF QUICK LOOK LINES EQUALS 25

```

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Figure PST23-6 - continued. Sample Output

FIS/PS MASTER FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRPMSIR (LP0210)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF SEGMENT 0 RECORDS PRINTED:	13
NUMBER OF SEGMENT 1 RECORDS PRINTED:	25
NUMBER OF SEGMENT 2 RECORDS PRINTED:	0
NUMBER OF SEGMENT 3 RECORDS PRINTED:	0

(Page 4 of 8)

Figure PST23-6 - continued. Sample Output

EIS/PS MASTER FILE DETAILED REPORT

STATE COUNTY AQCK PLANT ID
06 1960 053 0001

DATE SEGMENT CONTROL LOCAL CITY UTM ZONE OWNER CONTACT TELEPHONE PRINCIPAL
80 065 0 123 04 PL-3175 0012 12 P FRANK SMYTHE 5919544376 9ENGINES

ESTABLISHMENT NAME AND ADDRESS ZIP
SMYTHE ENGINE COMPANY INC. 0025 00003.5 MAILING ADDRESS ZIP
RED OAKE, CULUMADO

P7 PLANT COMMENT
PLANT WILL START PRODUCTION 05/01/80
NEDS FLAG PLANT FLAG E I S F L A G S
P1 S P7 S 1 2 3 4
S S S S S

DATE SEGMENT POINT USEP UTM COORDINATES LATITUDE LONGITUDE ANNUAL THRUPUT NORMAL OPERATING
YEAR DAY TYPE ID POINT ID SIC IPP HORIZONTAL VERTICAL DEG MIN SEC DEG MIN SEC DEC MAR JUN SEP HR/D D/WK WK/YR
80 001 1 01 011 1141 21 245.4 0955.5 71 21 21 051 51 52 02 03 03 01 10 5 47

BOILER SPACE S T A C K D A T COMP SCHED COMP STATUS CONTROL REGULATION
CAPACITY HEAT HEIGHT DIAM TEMP FLOW RATE VELOCITY PLUME PNTS COMP YEAR MONTH YEAR MONTH DAY ECAP REG 1 REG 2 REG 3
00137 09.7 0090 01.0 0100 0000123 00150 0900 2 81 10 79 12 15 1 44 15 17

P7 POINT COMMENT
POLL 43101 ADDED 03/21/80
N E D S F L A G S POINT FLAG E I S F L A G S
P2 P3 P4 P5 PWCS P7 11 12 14
S S S S S S S

NUMBER OF POLLUTANT CONTROL EQUIP ESTIM CNIL E M I S S I O N S ESTM TEST EIS FLG
POLLUTANTS ID COST PRI SEC EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD 13
01 00001.00 022 041 98.5 0000100 0000200 0000300 4 3 3 S

STATE COUNTY AUCK PLANT ID
06 1960 053 0001

DATE SEGMENT CONTROL LOCAL
YEAR DAY TYPE REGION CONTROL
80 065 6 123 04
PL-3175 PLANT ID CITY UTM ZONE OWNER CONTACT TELEPHONE PRINCIPAL
0012 12 P FRANK SMYTHE 591954376 9ENGINES

ESTABLISHMENT NAME AND ADDRESS ZIP
SMYTHE ENGINE COMPANY INC.
NUMBER OF PROPERTY
0025 EMPLOYEES AREA MAILING ADDRESS ZIP
0003.5 0003.5 WED OAKL, COLORADO

P7 PLANT COMMENT
PLANT WILL START PRODUCTION 05/01/80
NEDS FLAG PLANT FLAG E I S F L A G S
P1 S P7 S 1 2 3 4
S S S S

DATE SEGMENT POINT USER UTM COORDINATES LONGITUDE ANNUAL THRUPT NORMAL OPERATING
YEAR DAY TYPE ID POINT ID SIC IPP HORIZONTAL VERTICAL DEG MIN SEC DEC MIN SEC HR/D D/WK WK/YR
80 113 1 10 011 1141 21 245.4 0955.5 71 21 21 051 51 52 02 03 03 01 10 5 47

BOILER SPACE S T A C K D A T A COMP SCHED COMP STATUS CONTROL REGULATION
CAPACITY HEAT HEIGHT DIAM TEMP FLUM RATE VELOCITY PLUME PNTS COMP YEAR MONTH YEAR MONTH DAY ECAP REG 1 REG 2 REG 3
00137 09.7 0090 01.0 0100 0000123 00151 0900 2 81 10 79 12 15 1 44 15 17

P7 POINT COMMENT
POINT ADDED 12/14/79
N E D S F L A G S POINT FLAG E I S F L A G S
P2 P3 P4 P5 P6 S P7 S 11 12 14
S S S S S S S

NUMBER OF POLLUTANT CONTROL EQUIP ESTM CNIL E M I S I O N S ESTM TEST EIS FLG
POLLUTANTS ID CUST PRI SEC EFFICIENCY ESTIMATE MEASURED ALLOWABLE POTENTIAL UNITS METHOD 13
01 TSP 00001.00 022 04J 98.5 000100 0000200 0000300 4 3 3 S

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Figure PST23-6 - continued. Sample Output

EIS/PS MASTER FILE DETAILED REPORT

STATE COUNTY AGCR PLANT ID
34 0040 203 0005

DATE	SEGMENT	CONTROL	LOCAL	PLANT ID	CITY	UTM ZONE	OWNER	CONTACT	TELEPHONE	PRINCIPAL
80 000	0	0	0	0020	17	D F SMITH				PRODUCT

ESTABLISHMENT NAME AND ADDRESS	ZIP	NUMBER OF	PROPERTY	MAILING ADDRESS	ZIP
TATEVILLE MILLS TATEVILLE		EMPLOYEES	AREA		

P7 PLANT COMMENT

NEDS FLAG	PLANT FLAG	E I S	F L A G S
P1	P7	1 2 3 4	S S S S

DATE	SEGMENT	POINT	USER	UTM COORDINATES	LATITUDE	LONGITUDE	ANNUAL THRUPUT	NORMAL OPERATING
YEAR DAY	TYPE	ID	POINT ID	SIC	JPP	HORIZONTAL	VERTICAL	HR/D D/WK WK/YR
71 000	1	01		2299 00	373.0	3782.0		25 25 25 25 24 5 52

BOILER	SPACE	S	T	A	C	K	D	A	T	COMP	SCHED	COMP STATUS	CONTROL REGULATION
CAPACITY	HEAT	13.6	0100	06.0	0450	0023738				3	81	01	ECAP REG 1 REG 2 REG 3

P7 POINT COMMENT

N E D S	F L A G S	POINT FLAG	E I S	F L A G S
P2 P3 P4 P5	PWCS	P7	11 12 14	S S S

NUMBER OF	POLLUTANT	CONTROL	EQUIP	ESTM	CNIL	E M I S	J O N S	ESTM	TEST	EIS FLG
POLLUTANTS	ID	CUST	PRI	SFC	EFFICIENCY	ESTIMATE	MEASURED	POTENTIAL	UNITS	METHOD
01	TSP	008 000	82.0	0000045	0000028	0000251	3	13	S	

EIS/HUS MASTER FILE DETAILED REPORT

STATE COUNTY AUCK PLANT ID
34 0040 205 0005

DATE	SEGMENT	CONTROL	LOCAL	CITY	UTM	ZONE	OWNER	CONTACT	TELEPHONE	PRINCIPAL
YEAR DAY	TYPE	REGION	CONTROL	0020	17			D F SMITH		PRODUCT
80 000	0									

ESTABLISHMENT NAME AND ADDRESS	NUMBER OF PROPERTY	MAILING ADDRESS	ZIP
TATEVILLE MILLS TATEVILLE	EMPLOYEES AREA		

P7 PLANT COMMENT

NEDS FLAG	PLANT FLAG	E I S	F L A G S
P1	P7	1 2 3 4	S S S S

DATE	SEGMENT	POINT	USER	UTM COORDINATES	LATITUDE	LONGITUDE	ANNUAL THRUPUT	NORMAL OPERATING
YEAR DAY	TYPE	ID	POINT ID	SIC	IPP	HORIZONTAL	VERTICAL	DEC MIN SEC
71 000	1	02		2299 00				25 25 25 25 24 5 52

BOILER	SPACE	S T	A C K	D A T	COMP	SCHED	COMP	STATUS	CONTROL REGULATION
CAPACITY	HEAT	HEIGHT	DIAM	TEMP	FLOW	RATE	VELOCITY	PNTS	YEAR MONTH DAY
00060	13.6	0100	0A.0	0450	0034201			4	ECAP REG 1 REG 2 REG 3

P7 POINT COMMENT

N E D S	F L A G S	POINT FLAG	E I S	F L A G S
P2 P3 P4 P5 P6CS	P7	11 12 14	S S S	S S S

NUMBER OF POLLUTANT	CONTROL	EQUIP	ESTM	CNTL	E M I S S I O N S	ESTM	TEST	EIS	FLG
POLLUTANTS	ID	COST	PRI	SEC	EFFICIENCY	ESTIMATE	MEASURED	POTENTIAL	UNITS METHOD
01	TSP	000 000	00.0	0000001	0000045	0000001	0000001	3	13 S

EIS/PS Test 24 - Ad Hoc

Produce Three Quick Look Reports

In this test run, three quick look reports are produced using the cataloged procedure EPRPM60 which executes PRTQLED (EP0260), the quick look edit program; PRTQLEX (EP0270), the quick look extract program; and the PRPQUIK (EP0280), the quick look report program.

The user-supplied quick look control cards input to PRTQLED (EP0260) will select all master file records and produce three quick look reports. At least one 10 card must be present in a quick look run; therefore, in order to select all master file records, a 10 card must specify a condition that is true for all records. The 10 card in this test run specifies that the state code must be present for a record to be selected. Since the state code is a key field, it will always be present for every master file record.

The 20 card specifies that a quick look report is desired. There is no 30 card supplied in the run stream, therefore the default sort sequence will be the same as the master file sequence.

The 10 card specifies the record selection criteria, but the 40, 41, and 42 cards specify the records from which data will be extracted for a given report. The 40 card in this test run contains only plant segment data elements, therefore only data from plant records will be included in the first report. The 41 card contains only point segment data elements, therefore only data from point records will be present in the second report. The 42 card contains only SCC segment data elements, therefore only data from SCC records will be present in the third report.

The user should be aware that all master file records (169 in this test run) passed the 10 card selection criteria, but only the plant, point, and SCC records (a total of 154) were selected for the quick look reports. If an answer file had been requested, it would contain all records from the input master file (hence, it would be an exact copy). See EIS/PS Test 23 for a discussion of the quick look package.

The run stream for this test run contains the JCL needed to produce a quick look report. It also contains the quick look control cards that are input to PRTQLED (EP0260). The run stream for this test run is shown in Figure PST24-1.

A substitutable parameter is used to specify EPMSTR6 as the name of the master file input to PRTQLEX (EP0270). The DD (data definition) information for the quick look control cards is also supplied. Sample output produced by this run stream is shown in Figure PST24-2.

```

//PST24 JOB      (ACCOUNTING INFO)
/**
/**  PRODUCE THREE QUICK LOOK REPORTS
/**
//TEST24 EXEC EPRPM60,
//      MSTRFIL=FPMSR6,
//      ANSRFIL=EPANSR6
/**
/**  PRODUCE THE FIRST REPORT WITH INFORMATION FROM THE
/**  PLANT RECORD; PRODUCE THE SECOND WITH INFORMATION FROM THE
/**  POINT RECORD; GENERATE THE LAST REPORT WITH DATA FROM THE
/**  SCC RECORD
/**
//EDIT.INPUT DD *
$$$SELECT REPORT ONE: PLANTS, REPORT TWO: POINTS, REPORT THREE: SCC'S
10  STIE P
20  QL
40  0SIT 0CNT 0AQC 0PLN NAAD
41  1SIT 1CNT 1AQC 1PLN S1ID UTMC NUMP
42  2SIT 2CNT 2AQC 2PLN S2ID SCCC SSON FPRT MDRT
$$$END

```

Figure PST24-1. Run Stream

```

.....
..... EIS/PS QUICK LOOK EDIT PROGRAM - DIAGNOSTIC REPORT ..... PAGE 1
.....
PROGRAM NAME: PRTWLED (EP0260)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
.....
TITLE REPORT ONE: PLANTS, REPORT TWO: POINTS, REPORT THREE: SCC'S
.....

SELECTION CRITERIA
10 SITE P

REPORT FORMATS
20 GL

REPORT SEQUENCE
DEFAULT REPORT SEQUENCE, SAME AS MASTER FILE ORDER

QUICK LOOK DATA ELEMENTS - REPORT ONE
40 OSTT OCNT OAWC OPLN NAAD
STATE
COUNTY
AQCR
PLANT ID
NAME AND ADDRESS

QUICK LOOK DATA ELEMENTS - REPORT TWO
41 ISIT ICNT IAGC IPLN SIID UTMC NUMP
STATE
COUNTY
AQCR
PLANT ID
SEGMENT 1 NEDS POINT ID
UTM COORDINATES
NUMBER OF POLLUTANTS

QUICK LOOK DATA ELEMENTS - REPORT THREE

```

(Page 1 of 7)

Figure PST24-2. Sample Output

..... EIS/PS QUICK LOOK EDIT PROGRAM - DIAGNOSTIC REPORT

..... TITLE REPORT ONE: PLANTS, REPORT TWO: POINTS, REPORT THREE: SCC'S

42 2ST1 2CNT 2AUC 2PLN 221D SCCC 222N FPRT MDRT
STATE
COUNTY
ADCR
PLANT ID
SEGMENT 2 NEDS POINT ID
SCC CODE
SCC SEQUENCE NUMBER
FUEL PROCESS RATE
MAX DESIGN RATE

..... EIS/PS QUICK LOOK EXTRACT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PHUJEX (FPU270)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ: 169
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN: 154
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN: 0
NUMBER OF ANSWER FILE RECORDS WRITTEN: 0

Figure PST24-2 - continued. Sample Output

REPORT ONE: PLANTS, REPORT TWO: PRINTS, REPORT THREE: SCC'S

SITE ONLY QUICK PLNT NAME-AND-ADDRESS

06	1960 053	0001	SMYTHE ENGINE COMPANY INC.
06	1960 053	0041	SMYTHE ENGINE CO
06	2004 053	0001	HANSON ENGINE CO
08	0008 240	8001	SAINT AGNES MILLS REEDSVILLE
08	0008 240	8002	GENERAL INC TAYLOR
08	0008 240	8005	GENERAL INC TAYLOR
08	0080 240	8000	AG SERV ADMIN AG LIMEST PLT
08	0080 240	8001	BETTERROADS ASPHALT PLANT 2 RD 2 KM 139.6
08	0080 240	8002	BEST CONTRACTIN CORP.RD.2 KM.139.6
08	0080 240	8003	CENTRAL CITY CARS
08	0080 240	8005	LOADER MACHINE FOR SAND EXTRACTION.
08	0080 240	8006	CARIBE FOAM & BENDER BO
08	0080 240	8007	RENHECK LABORATORIES CARY
08	0120 240	8001	SMITH INDUSTRIES
08	0120 240	8002	WENTER ASPHALT CORPORATION RENNER
08	0120 240	8003	JONES AND GEORGE INC WHITE OAK
18	0040 224	0001	LANCE J ELLER INC BOX 66 TASLEY NC
18	0040 224	0002	JELLY FARM IND INC BOX 6 TEMPERANCEVILLE
18	0040 224	0005	DENVER AIR PORT
18	0060 224	0001	S L WILLIAMSON CO RT 780 RED HILL
18	0060 224	0002	SMITH ELECTRIC CO NAYLORSVILLE
18	0060 224	0003	UNIV NC JEFFERSON PK AV & C&O RR TRACKS
18	0060 224	0004	LUCK GUARRIES RT 250 SHADWELL NC
34	0040 203	0001	ZELIS-PETERSON RUCKY RIVER PLANT 29628
34	0040 203	0002	HALE MANUFACTURING CO HWY 28
34	0040 203	0003	STEPHENSON IND. CALHOUN MILLS
34	0040 203	0004	TATEVILLE MFG CO BOX 807 TATEVILLE
34	0040 203	0005	TATEVILLE MILLS TATEVILLE
34	0040 203	0006	GENERAL CABLF CURP BOX 250 TATFVILLE S C
34	0040 203	0007	HUGGINS GARMENT CO EUGENE IND DONALDS
34	0040 203	0008	GENERSBURG MILLS BOX 579 TATEVILLE 29620
34	0060 053	0001	GACNITEVILLE CO STEVENS STEFCM STICION

TOTAL NUMBER OF QUICK LOOK LINES EQUALS 32

REPORT ONE: PLANTS, REPORT TWO: POINTS, REPORT THREE: SCC'S

SITE CNV AQCK PLNT S1ID UTM-COORD NUMP

06	1960	053	0001	01	245409555	03
06	1960	053	0001	10	245409555	02
06	1960	053	0041	01	245409555	01
06	1960	053	0041	02	245409555	02
06	2004	053	AQM1	10	245409555	02
06	2004	053	AQM1	AB	245409555	02
08	0008	240	8002	01	121800429	05
08	0008	240	8005	01	121800429	05
08	0080	240	8000	81	064200603	05
08	0080	240	8001	01	076000556	05
08	0080	240	8001	02	076000556	05
08	0080	240	8002	01	077300547	05
08	0080	240	8003	01	075500610	05
08	0080	240	8003	02	075500610	05
08	0080	240	8003	03	075500610	05
08	0080	240	8003	04	075500610	05
08	0080	240	8005	01	072700612	05
08	0080	240	8006	01	074500638	05
08	0080	240	8007	01	061000762	05
08	0120	240	8001	01	076100637	05
08	0120	240	8002	01	083080683	05
18	0040	224	0001	01	432041634	05
18	0040	224	0002	01	452541932	05
18	0040	224	0005	01	458841991	05
18	0040	224	0005	02	458841991	05
18	0040	224	0005	03	458841991	05
18	0040	224	0005	04	458841991	05
18	0040	224	0005	05	457841887	05
18	0040	224	0005	06	457841887	05
18	0040	224	0005	07	457841887	05
18	0060	224	0001	01	709842043	05
18	0060	224	0002	01	721142130	05
18	0060	224	0003	01	192042125	05
18	0060	224	0003	02	192042125	05
18	0060	224	0003	03	192042125	05
18	0060	224	0003	04	192042125	05
34	0040	203	0001	01	252037780	05
34	0040	203	0001	02	252037780	05
34	0040	203	0001	03	252037780	05
34	0040	203	0001	04	252037780	05
34	0040	203	0002	01	372037820	03
34	0040	203	0002	02	372037820	03
34	0040	203	0003	01	16	16
34	0040	203	0004	01	373237795	05
34	0040	203	0005	01	373037820	05
34	0040	203	0005	02	05	05
34	0040	203	0005	03	05	05
34	0040	203	0006	01	370037820	05
34	0040	203	0006	02	370037820	05

(Page 4 of 7)

Figure PST24-2 - continued. Sample Output

```

..... EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM ..... PAGE 2
.....
REPORT ONE: PLANTS, REPORT TWO: POINTS, REPORT THREE: SCC'S
.....
SITE UNIV AUCH PLNT SITE UTM-COORD NUMP
.....
34 0040 203 0006 03 370037620 05
34 0040 203 0007 01 364038060 05
34 0040 203 0008 01 371037620 05
34 0060 053 0001 01 345237192 05
.....
TOTAL NUMBER OF QUICK LOOK LINES EQUALS 53

```

(Page 5 of 7)

Figure PST24-2 - continued. Sample Output

REPORT ONE: PLANTS, REPORT TWO: POINTS, REPORT THREE: SCC'S

STATE	CITY	AUCR	PLNT	S2ID	SCC	SSON	FI-P-WT	MAX-D-RT
06	1960	053	0001	01	40300101	00	0003000	0004.000
06	1960	053	0001	01	40300102	02	0003000	0004.000
06	1960	053	0001	10	40300101	00	0003000	0004.000
06	1960	053	0001	10	40300102	02	0003000	0004.000
06	1960	053	0041	01	10202302	02	0003000	0004.000
06	1960	053	0041	01	40300101	00	0003000	0004.000
06	1960	053	0041	02	10202302	01	0039600	0925.000
06	1960	053	0041	02	20600197	05	0050000	0003.000
06	1960	053	0041	02	20600198	05	0004000	0002.000
06	1960	053	0041	02	30103203	01	0004000	0003.000
06	1960	053	0041	02	30200201	01	0396000	9250.000
06	1960	053	0041	02	30200201	05	0500000	0030.000
06	1960	053	0041	02	30200201	10	0030000	0004.000
06	1960	053	0041	02	30200501	00	0003000	0004.000
06	1960	053	0041	02	30200502	02	0003000	0004.000
06	1960	053	0041	02	40300101	01	0030000	0040.000
06	1960	053	0041	02	40300101	02	0004000	0003.000
06	1960	053	0041	02	40300104	01	0002000	0010.000
06	1960	053	0041	02	90202020	01	0030000	0040.000
06	1960	053	0041	02	90202020	02	0004000	0009.000
06	1960	053	0041	02	90300201	02	0004000	0003.000
06	2004	053	AGW1	10	30200501	00	0003000	0004.000
06	2004	053	AGW1	10	30200502	02	0003000	0004.000
06	2004	053	AGW1	AB	30200501	00	0003000	0004.000
06	2004	053	AGW1	AB	30200502	02	0003000	0004.000
08	0008	240	8002	01	10200503	00	0000017	0000.010
08	0008	240	8005	01	10200503	00	0000017	0000.010
08	0008	240	8000	81	30501601	00	0005000	0008.000
08	0008	240	8001	01	30500201	00	0000612	0200.000
08	0008	240	8001	02	30500202	00	0125000	0200.000
08	0008	240	8003	01	10200082	00	0013970	
08	0008	240	8003	02	10200082	00	0013970	
08	0008	240	8003	03	10200082	00	0013970	
08	0008	240	8003	04	10200081	00	0085090	
08	0008	240	8005	01	30502006	00	0014929	0011.483
08	0008	240	8006	01	30102046	00	0000042	0000.002
08	0008	240	8007	01	30199999	00	0000029	0000.007
08	0120	240	8001	01	20100101	00	0000536	0001.858
08	0120	240	8002	01	30500202	00	0060000	0028.850
08	0040	224	0002	01	10200402	00	0000000	0000.140
08	0040	224	0005	01	10300402	00	0000241	0000.115
08	0040	224	0005	02	10300402	00	0000314	0000.115
08	0040	224	0005	03	10300402	00	0000231	0000.115
08	0040	224	0005	04	10300402	00	0000031	
08	0040	224	0005	05	10300503	00	0000169	0000.160
08	0040	224	0005	06	40300107	00	0000240	
08	0040	224	0005	07	40300105	00	0000050	
08	0060	224	0001	01	30500201	00	0000140	0000.150
08	0060	224	0002	01	10200503	00	0000077	0000.042

EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM

REPORT ONE: PLANTS, REPORT TWO: POINTS, REPORT THREE: SCC'S

SITE CMTY AUCR PLNT S2ID SEC		SSUN FU-P-RT MAX-D-RT	
18	0060 224 0003 01	10300209 00	0003794 0002.080
18	0060 224 0003 02	10300209 00	0001676 0002.080
18	0060 224 0003 03	10300209 00	0006982
18	0060 224 0003 04	10300402 00	0000218 0000.002
34	0040 203 0001 01	10200402 00	0000050 0000.047
34	0040 203 0001 02	10200402 00	0000050 0000.047
34	0040 203 0001 03	10200402 00	0000050 0000.047
34	0040 203 0001 04	10200402 00	0000050 0000.020
34	0040 203 0002 01	10200503 00	0000006 0000.005
34	0040 203 0002 02	10200503 00	0000006 0000.005
34	0040 203 0003 01	10200402 00	0000080 0000.018
34	0040 203 0004 01	10200503 00	0000010 0000.007
34	0040 203 0005 01	10200204 00	0003867 0000.010
34	0040 203 0005 02	10200602 00	0000149 0000.402
34	0040 203 0005 03	10200602 00	0000062 0000.160
34	0040 203 0006 01	10200503 00	0000016 0000.004
34	0040 203 0006 02	10200603 00	0000015 0000.002
34	0040 203 0006 03	10200603 00	0000012 0000.001
34	0040 203 0007 01	10200603 00	0000002 0000.003
34	0040 203 0008 01	10200503 00	0000003 0000.005

TOTAL NUMBER OF QUICK LOOK LINES EQUALS 69

Figure PST24-2 - continued. Sample Output

EIS/PS Test 25 - Ad Hoc

Produce a Quick Look Turnaround Document

In this test run, a quick look turnaround document is produced using the cataloged procedure EPRPM70 which executes PRTQLED (EP0260), the quick look edit program; PRTQLEX (EP0270), the quick look extract program; and PRPTURN (EP0290), the quick look turnaround document program.

The selection criteria for this test run specifies that all point records associated with state code 34 are to be selected from the master file input to PRTQLEX (EP0270). The 20 card specifies that a turnaround document is desired. The turnaround document will contain EIS/PS master file transactions that are generated from the records which pass the selection criteria. Since the selection criteria specifies only point records, the turnaround document will contain only transaction types 11, 12, 13, and 14. The transactions will be listed in a special format for coding purposes. See EIS/PS Test 23 for a discussion of the quick look package.

The run stream for this test run contains the JCL needed to produce a quick look turnaround document. This run stream is shown in Figure PST25-1.

A substitutable parameter is used to supply EPMSTR6 as the name of the master file input to PRTQLEX (EP0270). The DD (data definition) information for the quick look control cards is also supplied. Sample output produced by this run stream is shown in Figure PST25-2.

```

//PSTESTPS JOB      (ACCOUNTING INFO)
//*
//*   PRODUCE A TURNAROUND DOCUMENT FOR SELECTED POINTS
//*
//TEST25A EXFC EPRPM70,
//      MSTKFILE=FPMSTR6,
//      ANSWFILE=FPANSRC
//*
//*   SELECT ALL POINTS IN NORTH CAROLINA FOR INCLUSION
//*   IN THE TURNAROUND DOCUMENT
//*
//EDIT.INPUT DD *
$SELECT   TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34
10  ISIT F 34
20 1A
$END

```

Figure PST25-1. Run Stream

```

.....
EIS/PS QUICK LOOK EDIT PROGRAM - DIAGNOSTIC REPORT
.....
PROGRAM NAME: PRT0LE1 (F00260)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
.....
TITLE TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34
.....

```

```

SELECTION CRITERIA
10 1ST F 34

REPORT FORMATS
20 1A

REPORT SEQUENCE

DEFAULT REPORT SEQUENCE, SAME AS MASTER FILE ORDER

```

```

.....
EIS/PS QUICK LOOK EXTRACT PROGRAM - DIAGNOSTIC REPORT
.....
PROGRAM NAME: PRT0LE1 (F00270)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
.....
NUMBER OF EIS/PS MASTER FILE RECORDS READ: 169
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN: 0
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN: 17
NUMBER OF ANSWER FILE RECORDS WRITTEN: 0
.....

```

Figure PST25-2. Sample Output

ST	CNTY	AUCK	PLANT	YR	DAY
00	0000	000	1111	11	111
12	3456	749	0123	45	678
34	0040	203	0001	76	000
				..	...

ID	UID	SIC	IPP	HGR17	VENT	LATITUDE	LONGITUDE	DF	MM	JA	SN	HR	D	WK	CAPAC	HEAT	SEG	CD	ACT
12	222	2222	22	333	3	3333	3	3333	3	3333	3	3333	3	3333	3	3333	3	3333	3
90	123	4567	49	012	3	4567	8	90	12	34	567	89	01	2	34	56789	01	2	
01		2281	00	252.0	3778.0			30	20	20	30	24	5	50	00044	20.0	1	1	
																	1	1	

ID	HGHT	DIAM	TEMP	FL	RATE	VELOC	PLUME	PT/STK	COMP	SY	SM	UY	UM	UD	E	REG1	REG2	REG3	SEG	CD	ACT
12	2222	22	2	2233	3333333	34444	4444	4455	5	55	55	55	56	66	6	6666	6677	7777	7	7	8
90	1234	56	7	8901	2345678	90123	4567	8901	2	34	56	78	90	12	3	4567	8901	2345	8	9	0
01	0100	04.0	0345	0030159		0000			1		73	01	20						1	2	

ID	PNOUT	CNTEQCST	PCE	SCE	EFJC	FNSTST	MEAFMIS	ALUEMIS	UNIT	EM	TM	SEG	CD	ACT
01	42401	.	000	000	00.0	00000006		99999999		3		1	3	
01	42602	.	000	000	00.0	00000002		0000130		3		1	3	
01	11101	.	000	000	00.0	00000003		00000022		3		1	3	
01	42101	.	000	000	00.0	00000000		99999999		3		1	3	
01	43101	.	000	000	00.0	00000000		99999999		3		1	3	

[illegible]

TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34

ST CNTY AUCH PLANT YR DAY
00 0000 000 1111 11 111
12 3456 789 0123 45 678
34 0040 203 0003 72 000
.. ..

ID	UID	SIC	IPP	HORIZ	VFHT	LATITUDE	LONGITUDE	RF	MM	JA	SN	HR	D	WK	CAPAC	HEAT	SEG	CD	ACT				
12	222	2222	22	333	3	3333	3	34	44	44	44	44	55	55	55	55	66	66	66	77	7	8	
90	123	4567	89	012	3	4567	8	90	12	34	567	89	01	23	45	67	89	01	2	34	56789	01	2
01	2299	00	.	.	.	.	.	.	25	25	25	25	24	5	50	00018	30.0	1	1	.	.	.	.

ID	HGHT	DIAM	TEMP	FL	RATE	VELUC	PLUME	PT/STK	COMP	SY	SM	UY	UM	UD	E	REG1	REG2	REG3	SEG	CD	ACT
12	2222	22	2	2233	33333333	34444	4444	4455	5	55	55	55	55	66	6	6666	6677	7777	7	7	8
90	1234	56	7	8901	2345678	90123	4567	8901	2	34	56	78	90	12	3	4567	8901	2345	8	9	0
01	0030	02.0	0500	.	.	0000	0000	2	80	04	.	.	.	.	.	.	.	.	1	2	.

ID	POLUT	CNTEQCST	PCE	SCF	EFIC	EMISEST	MEALMIS	ALOEEMIS	UNIT	EM	TM	SEG	CD	ACT
12	22222	22223	33	333	333	34	4444444	4555555	5555666	6	6	6	7	8
90	12345	67890	12	345	678	90	1	2345678	9012345	6789012	3	4	5	0
01	42602	.	000	000	00.0	0000002	0000118	0000118	0000118	3	.	1	3	.
01	11101	.	000	000	00.0	0000001	0000001	0000001	0000001	3	.	1	3	.
01	42401	.	000	000	00.0	0000010	0000010	0000010	0000010	3	.	1	3	.
01	42101	.	000	000	00.0	0000001	0000001	0000001	0000001	3	.	1	3	.
01	43101	.	000	000	00.0	0000000	0000000	0000000	0000000	3	.	1	3	.
01	42701	.	000	000	00.0	0000000	0000000	0000000	0000000	1	0	1	3	.
01	52501	.	000	000	00.0	0000013	0000013	0000013	0000013	1	0	1	3	.
01	24201	.	000	000	00.0	0000000	0000000	0000000	0000000	1	0	1	3	.
01	42303	.	000	000	00.0	0000000	0000000	0000000	0000000	1	0	1	3	.
01	42404	.	000	000	00.0	0000000	0000000	0000000	0000000	1	0	1	3	.
01	26202	.	000	000	00.0	0000000	0000000	0000000	0000000	1	0	1	3	.

TURNAROUND DOCUMENT FOR ALL POINTS IN STATE 34

ST	CHLY	ADCK	PLANT	YR	DAY
00	0000	000	1111	11	111
12	3456	789	0123	45	678
34	0040	203	0003	72	000

[illegible][illegible]

EIS/PS Test 26 - Ad Hoc

Produce a Quick Look Answer File and List the File in a Formatted Dump

In this test run, a quick look answer file is produced using the cataloged procedure EPRTM40 which executes PRTQLED (EP0260), the quick look edit program, and PRTQLEX (EP0270), the quick look extract program. The answer file is then listed using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

There are only two types of quick look control cards necessary for producing an answer file; one or more 10 cards and a 20 card. The answer file produced by the quick look package is retained and cataloged in the system catalog when using the cataloged procedure EPRTM40. The answer file output from PRTQLEX (EP0270) is input to PRPDUMP (EP0220). See EIS/PS Test 23 for a discussion of the quick look package and EIS/PS Test 5 for a discussion of PRPDUMP (EP0220).

The run stream for this test run contains the JCL needed to produce and list a quick look answer file. This run stream is shown in Figure PST26-1.

Substitutable parameters are used when executing EPRTM40 to supply the names of the master file input and the answer file output for PRTQLEX (EP0270). The names of these files are EPMSTR6 and EPANSRD, respectively. A substitutable parameter is also used to supply EPANSRD as the name of the master file input to PRPDUMP (EP0220). The DD (data definition) information for the quick look control cards is also supplied. Sample output produced by this run stream is shown in Figure PST26-2.

The user should note that although the selection criteria (10 cards) of the quick look control cards specify only point and SCC segment data elements, the answer file will contain the plant record to which a selected point record is subordinate and it will contain the plant and point records to which a selected SCC record is subordinate. The reason for this is to maintain the master file format within the answer file so that the answer file can be used as input to any program which accepts the master file.


```

//PSTEST26 JOB      (ACCOUNTING INFO)
/**
/**  RETRIEVE A QUICK LOOK ANSWER FILE AND THEN DUMP ITS CONTENTS
/**
//TEST26A EXEC EPRTM40,
//      MSTRFIL=FPMSRK6,
//      ANSRFIL=EPANSRD
/**
/**  RETRIEVE THOSE RECORDS WHICH HAVE A BUILEK DESIGN
/**  CAPACITY VALUE OR ELSE HAVE A MAXIMUM DESIGN RATE
/**  VALUE GIVEN IN CONJUNCTION WITH A FUEL PROCESS
/**  RATE OF GREATER THAN 2000 UNITS
/**
//EDIT.INPUT DD *
$SELECT  PRODUCE AN ANSWER FILE USING POINT AND SCC CRITERIA
10  BNIL P              OR
10  FPRT G 0002000      AND
10  MDRT P
20  AF
$END
//TEST26R EXEC EPKPM30,
//      MSTRFIL=EPANSRD
/**
/**  GENERATE A FORMATTED DUMP OF THE ANSWER FILE PRODUCED
/**  IN STEP A
/**

```

Figure PST26-1. Run Stream

```

.....
EIS/PS WITH LOOK EDIT PROGRAM - DIAGNOSTIC REPORT
.....
PROGRAM NAME: P-1000 (P-1000)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980
.....
TITLE: PRODUCE A MASTER FILE USING POINT AND SCC CRITERIA
.....

```

SELECTION CRITERIA

```

10 BOIL P UR
10 FPRT G 0002000 AND
10 MDRT P

```

REPORT FORMATS

20 AF

REPORT SEQUENCE

DEFAULT REPORT SEQUENCE, SAME AS MASTER FILE ORDER

Figure PST26-2. Sample Output

PROGRAM NAME: PRIOLEX (EP0270)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ:	169
NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN:	0
NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN:	0
NUMBER OF ANSWER FILE RECORDS WRITTEN:	95

(Page 2 of 6)

Figure PST26-2 - continued. Sample Output

PROGRAM NAME: PRPDUMP (EP0220)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

PLANT (SEGMENT 0) RECORD COUNT:	27
POINT SOURCE (SEGMENT 1) RECORD COUNT:	39
POINT SOURCE POLLUTANT COUNT:	184
MACHINE PROCESS (SEGMENT 2) RECORD COUNT:	29
MACHINE PROCESS POLLUTANT COUNT:	120
PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT:	0
AVERAGE NUMBER OF POINT SOURCES PER PLANT:	1.4
AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE:	4.7
AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE:	0.7
AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS:	4.1
AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE:	0.0
TOTAL NUMBER OF RECORDS READ:	95
NUMBER OF ERRORS DETECTED:	0
NUMBER OF PAGES IN REPORT:	18

(Page 3 of 6)

Figure PST26-2 - continued. Sample Output

```

PLANT # 1
S1/CD=06 CY/CD=1960 AQCR/#=053 PL/ID=0001 DT=80065 USR/CNLT/RG=123 LCL/CNLT=04 USR/PL/IL=PL-3175 C1Y=0012 UTM/ZN=12 UMR/SHP=P
CNTCT=FRANKE SMYTHF PHA=5019544376 NW/ADDR=SMYTHF ENGINE COMPANY INC. PRD=9ENGINFES EMP=0025 AREA=000035
MLG/ADDR=RED UAKF, COLORADO P1/FL=5 P7/CMT=PLANT WILL START PRODUCTION 05/01/80
P7/FL=5 FIS FLAGS: 1=5 2=5 3=5 4=5
-----
POINT SOURCE 01
SEG/DI=80001 USR/PT/ID=011 STC/CD=1141 IPR/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LAG=0515152 IMRPT=02030301
NRML/OPER=10547 BUIR/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=000123 VLUCTY=00150 PLW/HGHT=0000
PIS/CM/STK= COMPLCE/STAI=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGUL= 44 15 17 P2-P5/FLGS=SSSS PWC/S/FL=
P7/CMT=FULL 43101 ADDED 03/21/80
P7/FL=5 FIS FLAGS: 11=5 12=5 14=5 #/POLL=01
** POLL/ID EQP/CST PRI/EGP SEC/EGP CNLT/EF EMIS/FST EMIS/MEAS ALIOW/FMIS UACNTL/EMIS EM/UTS FST/MT TS/MT FIS/FL/13 **
** 42101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 S **
** 11101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 S **
** 43101 0102250 022 041 907 0000100 00002100 0000300 4 3 3 S **
-----
SEG/DI=80001 HFC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=578 ASH/CT=023 HEAT/CT=00150 CNFD/DI=1 SC/CD=H
SC/DSC=ENGINE E/F/SC=R P6/FL=5 P7/CMT=SCC LEFT COMMENT P7 SCC RIGHT P7 COMMENT P7/FL=5
EIS/FLAGS: 21=5 22=5 24=5 25=5
** POLL/ID EMIS/FCIR A/S/CD E/F/UTS APPRT/EMIS FIS/FL/23 **
** 42602 00000000 2 11101 00000000 1 0000000 1 0000000 S **
** 22104 000000230 2 11101 00000000 1 0000000 1 0000000 S **
-----
SEG/DI=80005 HFC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=023 ASH/CT=012 HEAT/CT=00150 CNFD/DI=1 SC/CD=H
SC/DSC=ENGINE EXHAUST FUMES E/F/SC=R P6/FL=5 P7/CMT=SCC LEFT COMMENT P7 SCC RIGHT P7 COMMENT P7/FL=5
EIS/FLAGS: 21=5 22=5 24=5 25=5
** POLL/ID EMIS/FCIR A/S/CD E/F/UTS APPRT/EMIS FIS/FL/23 **
** 11101 00000050 1 0000000 1 0000000 1 0000000 S **
** 42101 00000080 1 0000000 1 0000000 1 0000000 S **
-----
POINT SOURCE 10
SEG/DI=80113 USR/PT/ID=011 STC/CD=1141 IPR/CD=21 UTM/HORZ=2454 UTM/VERT=09555 LAT=712121 LAG=0515152 IMRPT=02030301
NRML/OPER=10547 BUIR/CAPC=00137 SPC/HT=097 STCK/HGHT=0090 STCK/DIAM=010 STCK/TMP=0100 FLW/RT=000123 VLUCTY=00150 PLW/HGHT=0000
PIS/CM/STK= COMPLCE/STAI=2 COMPLCE/SCH=8110 COMPLCE/UPD=791215 ECAP=1 CNTRL/REGUL= 44 15 17 P2-P5/FLGS=SSSS PWC/S/FL=
P7/CMT=POINT ADDED 12/14/79
P7/FL=5 FIS FLAGS: 11=5 12=5 14=5 #/POLL=02
** POLL/ID EQP/CST PRI/EGP SEC/EGP CNLT/EF EMIS/FST EMIS/MEAS ALIOW/FMIS UACNTL/EMIS EM/UTS FST/MT TS/MT FIS/FL/13 **
** 42101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 S **
** 11101 0000100 022 041 985 0000100 0000200 0000300 4 3 3 S **
-----
POINT SOURCE 00
SEG/DI=80113 HFC=12301 FUEL/UTS=2 FUEL/PRC=0003000 MAX/DESGN=0004000 SUL/CT=578 ASH/CT=023 HEAT/CT=00150 CNFD/DI=1 SC/CD=H
SC/DSC=ENGINE E/F/SC=R P6/FL=5 P7/CMT=SCC LEFT COMMENT P7 SCC RIGHT P7 COMMENT P7/FL=5
EIS/FLAGS: 21=5 22=5 24=5 25=5
** POLL/ID EMIS/FCIR A/S/CD E/F/UTS APPRT/EMIS FIS/FL/23 **
** 11101 00000000 1 0000000 1 0000000 1 0000000 S **
** 42602 00000000 2 11101 00000000 1 0000000 1 0000000 S **

```

(Page 4 of 6)

Figure PST26-2 - continued. Sample Output

[illegible]

Figure PST26-2 - continued. Sample Output

```

-----
POINT SOURCE 01
SEG/DI=72000 USR/PT/ID= SIC/CD=2321 IPP/CD=00 UTM/HORZ=3640 UTM/VERT=38060 LAT=
NRML/OPER=08550 ROLR/CAPC=00003 SPC/HI=000 STCK/HGHT=0032 STCK/DIAM=015 STCK/IMP= FLW/RTE LAG= THRP1=252525
P7/CM/STKE COMPLCE/STAT=3 COMPLCE/SCH=8001 COMPI CF/UPD= ECAP= CNTRI/REGUL= P2-P5/FLGS=SSSS PWCS/FL=
P7/CMIS= P7/FL=S EIS FLGS: 11=S 12=S 14=S #/PULL=05
** POLL/ID EGP/CSI PRI/EQP SFC/EQP CNL/EF EMI/EST EMI/MEAS ALLUW/FMIS UNCNL/EMIS EN/UIS EST/MT 15/MT EIS/FL/13 **
** 42401 000 000 000 000 0000000 9999999 0 0 S S **
** 42101 000 000 000 000 0000000 9999999 0 0 S S **
** 43101 000 000 000 000 0000000 9999999 0 0 S S **
** 11101 000 000 000 000 0000000 0000001 3 3 S S **
** 42602 000 000 000 000 0000000 0000002 3 3 S S **
-----
PLANT # 26
SI/CD=34 CY/CD=0040 AUCR/#=203 PI/ID=000A DI=80000 USR/CNLT/RG= LCL/CNLT= USR/PL/ID= PRD= EMP= UTM/ZN=17 UTM/SHP=
CNCT=BRILLY SMITH PHN= NM/ADDR=GENFRSHING MILLS BOX 579 TATEVILLE 29620 CTV= UTM/ZN=17 UTM/SHP=
MLG/ADDR= P1/FL=S P7/CMIS=
P7/FL=S FIS FLGS: 1=S 2=S 3=S 4=S
-----
POINT SOURCE 01
SEG/DI=73000 USR/PT/ID= STC/CD=2221 IPP/CD=00 UTM/HORZ=3710 UTM/VERT=37820 LAT=
NRML/OPER=24550 ROLR/CAPC=00005 SPC/HI=000 STCK/HGHT=0025 STCK/DIAM=015 STCK/IMP=0270 FLW/RTE LAG= THRP1=252525
P7/CM/STKE COMPLCE/STAT=4 COMPLCE/SCH= COMPLCE/UPD= ECAP= CNTRI/REGUL= P2-P5/FLGS=SSSS PWCS/FL=
P7/CMIS= P7/FL=S EIS FLGS: 11=S 12=S 14=S #/PULL=05
** POLL/ID EGP/CSI PRI/EQP SFC/EQP CNL/EF EMI/EST EMI/MEAS ALLUW/FMIS UNCNL/EMIS EN/UIS EST/MT 15/MT EIS/FL/13 **
** 42101 000 000 000 000 0000000 9999999 0 0 S S **
** 43101 000 000 000 000 0000000 9999999 0 0 S S **
** 42401 000 000 000 000 0000000 9999999 0 0 S S **
** 42602 000 000 000 000 0000001 0000005 3 3 S S **
** 11101 000 000 000 000 0000000 0000001 3 3 S S **
-----
PLANT # 27
SI/CD=34 CY/CD=0080 AUCR/#=053 PL/ID=0001 DI=72000 USR/CNLT/RG= LCL/CNLT= USR/PL/ID= PRD= EMP= UTM/ZN=17 UTM/SHP=
CNCT=MR MCKEON PHN= NM/ADDR=GRCNITEVILLE CO STEVENS STECM STATION CTV= UTM/ZN=17 UTM/SHP=
MLG/ADDR= P1/FL=S P7/CMIS=
P7/FL=S FIS FLGS: 1=S 2=S 3=S 4=S
-----
POINT SOURCE 01
SEG/DI=72000 USR/PT/ID= SIC/CD=4961 IPP/CD=00 UTM/HORZ=3452 UTM/VERT=37192 LAT=
NRML/OPER= ROLR/CAPC=00080 SPC/HI= STCK/HGHT=0100 STCK/DIAM=050 STCK/IMP=0550 FLW/RTE=0029460 VIUCTY= THRP1=
P7/CM/STKE COMPLCE/STAT= COMPLCE/SCH= COMPLCE/UPD= ECAP= CNTRI/REGUL= P2-P5/FLGS=SSSS PWCS/FL=
P7/CMIS= P7/FL=S EIS FLGS: 11=S 12=S 14=S #/PULL=05
** POLL/ID EGP/CSI PRI/EQP SFC/EQP CNL/EF EMI/EST EMI/MEAS ALLUW/FMIS UNCNL/EMIS EN/UIS EST/MT 15/MT EIS/FL/13 **
** 42401 000 000 000 000 000 000 0 0 S S **
** 43101 000 000 000 000 000 000 0 0 S S **
** 42101 000 000 000 000 000 000 0 0 S S **
** 11101 000 000 000 000 000 000 0 0 S S **
** 42602 000 000 000 000 000 000 0 0 S S **
-----

```

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----- END OF FILE LISTING -----

EIS/PS Test 27 - Ad Hoc

Retrieve Data from the Master File and Produce Two Quick Look Reports

In this test run, an answer file is produced using the cataloged procedure EPRTM30 which executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and PRTGENR (EP0150), the generated retrieval program. Two quick look reports are produced from the answer file using the cataloged procedure EPRPM60 which executes PRTQLED (EP0260), the quick edit program; PRTQLEX (EP0270), the quick look extract program; and PRPQUIK (EP0280), the quick look report program.

There are two sets of control cards used in this test run (see Figure PST27-1). One set consists of the EIS/PS retrieval language cards input to PRTLNGP (EP0140). The second set consists of quick look control cards input to PRTQLED (EP0260). The retrieval language cards (see Figure PST27-1) specify that all master file data (except comment records) associated with a plant record that has an ownership code of 'F' or 'S' should be retrieved. Therefore, the answer file will contain the qualifying plant records and all point and SCC records that are subordinate to these plant records. No comment records are retrieved.

The quick look control cards specify that two reports are to be printed. The 10 card is present to fulfill the requirement of having at least one 10 card. The 20 card specifies that the quick look report option has been selected. The 30 card specifies that all qualifying records are to be sorted according to ownership code. Since ownership code is a plant record data element, all point and SCC records associated with a plant record will be sorted according to the ownership code of that plant record. The 40 card contains data element abbreviations from plant and point records, therefore, only plant and point data will appear in the report. Hence, the first report will contain one line of data for each selected point record. The 41 card contains data elements from plant, point, and SCC records, therefore, the report will contain data from all three types of records. However, there will be only one line of data listed for each selected SCC record.

The user should note that the total number of quick look lines is equal to the total number of answer file records minus the number of plant records contained in the answer file.

See EIS/PS Test 10 for a discussion of the retrieval package and EIS/PS Test 23 for a discussion of the quick look package.

The run stream for this test run contains the JCL needed to execute both the retrieval and quick look packages. This run stream is shown in Figure PST27-1.

Substitutable parameters are used when executing EPRTM30 to supply the names of the master file input and the answer file output for PRTGENR (EP0150). The names of these files are EPMSTR6 and EPANSR6, respectively. A substitutable parameter is also used when executing EPRPM60 to supply EPANSR6 as the name of the master file input to PRTQLEX (EP0270). The DD (data definition) information for the retrieval language cards input to PRTLNGP (EP0140) and the quick look control cards input to PRTQLED (EP0260) is also supplied. Sample output produced by this run stream is shown in Figure PST27-2.

```

//PSTEST77 JOB      (ACCOUNTING INFO)
/**
/**  PERFORM A NORMAL RETRIEVAL; THEN PRODUCE A QUICK LOOK
/**  REPORT FOR THE ANSWER FILE
/**
//TEST27A EXEC EPRM430,
//      MSTRFIL=EPMSTR6,
//      ANSWRFIL=EPANSR6
/**
//COMPILE.INPUT DD *
$SELECT
OWNER                                = 'F'                                OR
OWNER                                = 'S'
$END
//TEST27B EXEC EPRM460,
//      MSTRFIL=EPANSR6,
//      ANSRFIL=EPQUIK1
/**
/**  PRODUCE TWO QUICK LOOK REPORTS FOR ALL THE RECORDS
/**  IN THE ANSWER FILE FROM STEP A
/**
//EDIT.INPUT DD *
$SELECT  REPORTS FOR FEDERAL AND STATE OWNED PLANTS
10  STIE P
20  QL
30  UP4SX
40  STIE CNTY PLNT OWNS NPID ECAP RFG1 RFG2 RFG3
41  STIE CNTY PLNT OWNS NPID SCCC SSWN FPRT FJNT SRCD
$END

```

Figure PST27-1. Run Stream

PROGRAM NAME: PRTRCMP (F00100)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

INPUT (CONTROL CARDS)

\$\$\$SELECT

OWNER

= 'F'

OK

OWNER

= 'S'

\$\$\$END

NUMBER OF CONTROL CARDS READ: 4
 NUMBER OF ERRORS DETECTED: 0

PROGRAM NAME: PRTRCMP (F00150)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ: 162
 NUMBER OF ANSWER FILE RECORDS WRITTEN: 33
 NUMBER OF ERRORS DETECTED: 0

EIS/PS QUICK LOOK FOIT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRTLED (EP0200)

REVISION LEVEL: 1-00

LAST UPDATE #: P-1

DATE INCORPORATED: FEBRUARY 1, 1980

TITLE REPORTS FOR FEDERAL AND STATE OWNED PLANTS

SELECTION CRITERIA

10 STATE P

REPORT FORMATS

20 QL

REPORT SEQUENCE

30 UNASX
OWNER

PAGE BREAK/SUBTOTAL

QUICK LOOK DATA ELEMENTS - REPORT ONE

40 STATE CNTY PLNT UNAS NPID ECAP REG1 REG2 REG3
STATE
COUNTY
PLANT ID
OWNER
NEOS POINT ID
ECAP
CONTROL REGULATION 1
CONTROL REGULATION 2
CONTROL REGULATION 3

QUICK LOOK DATA ELEMENTS - REPORT TWO

41 STATE CNTY PLNT UNAS NPID SCCC SSUN FPNT FUNT SRCD
STATE
COUNTY
PLANT ID
OWNER
NEOS POINT ID

EIS/PS QUICK LOOK EDIT PROGRAM - DIAGNOSTIC REPORT

TITLE REPORTS FOR FEDERAL AND STATE OWNED PLANTS

SCC CODE
 SCC SEQUENCE NUMBER
 FUEL PROCESS RATE
 FUEL UNITS
 SOURCE DESCRIPTION

EIS/PS QUICK LOOK EXTRACT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRTGLEX (FPG270)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF EIS/PS MASTER FILE RECORDS READ: 33
 NUMBER OF QUICK LOOK REPORT RECORDS WRITTEN: 30
 NUMBER OF TURNAROUND DOCUMENT RECORDS WRITTEN: 0
 NUMBER OF ANSWER FILE RECORDS WRITTEN: 0

```

..... EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM ..... PAGE 1
.....
REPORTS FOR FEDERAL AND STATE OWNED PLANTS
.....
SITE CNTY PLNT OWNS NPID ECAP REG1 REG2 REG3
.....
18 0040 0005 F 01
18 0040 0005 F 02
18 0040 0005 F 03
18 0040 0005 F 04
18 0040 0005 F 05
18 0040 0005 F 06
18 0040 0005 F 07
NUMBER OF RECORDS IN THIS UNIT IS 7

```

```

..... EMISSIONS INVENTORY SYSTEM / POINT SOURCE SUBSYSTEM ..... PAGE 2
.....
REPORTS FOR FEDERAL AND STATE OWNED PLANTS
.....
SITE CNTY PLNT OWNS NPID ECAP REG1 REG2 REG3
.....
08 0040 0003 S 01 1
08 0040 0003 S 02 1
08 0040 0003 S 03 1
08 0040 0003 S 04 1
18 0060 0003 S 01 1
18 0060 0003 S 02 1
18 0060 0003 S 03 1
18 0060 0003 S 04 1
NUMBER OF RECORDS IN THIS UNIT IS 8
TOTAL NUMBER OF QUICK LOOK LINES EQUALS 15

```

(Page 4 of 5)

Figure PST27-2 - continued. Sample Output

..... EMISSIONS INVENTORY SYSTEM / PUJMT SOURCE SUBSYSTEM PAGE 1

..... REPORTS FOR FEDERAL AND STATE OWNED PLANTS
 SITE CTRY PLNT OWNS UNID SCC SSQN FU-P-RT FURT SOURCE-DESCRIPTION

18	0040	0005	F	01	10300402	00	0000241	#6 OIL FIRED BOILER
18	0040	0005	F	02	10300402	00	0000314	#0 6 OIL FIRED BOILER
18	0040	0005	F	03	10300402	00	0000231	#0 6 OIL FIRED BOILER
18	0040	0005	F	04	10300402	00	0000031	#0 2 OIL FIRED BOILER
18	0040	0005	F	05	10300503	00	0000169	#0 2 OIL FIRED BOILER
18	0040	0005	F	06	40300107	00	0000240	#0 2 OIL UNLOADING
18	0040	0005	F	07	40300105	00	0000050	JET FUEL UNLOADING

NUMBER OF RECORDS IN THIS OWNS IS 7

..... EMISSIONS INVENTORY SYSTEM / PUJMT SOURCE SUBSYSTEM PAGE 2

..... REPORTS FOR FEDERAL AND STATE OWNED PLANTS
 SITE CTRY PLNT OWNS UNID SCC SSQN FU-P-RT FURT SOURCE-DESCRIPTION

08	0080	0003	S	01	10200062	00	0013970	BAGASSE
08	0080	0003	S	02	10200062	00	0013970	BAGASSE
08	0080	0003	S	03	10200062	00	0013970	BAGASSE
08	0080	0003	S	04	10200061	00	0005090	BAGASSE
18	0060	0003	S	01	10300209	00	0003794	CJAL FIRED BOILER
18	0060	0003	S	02	10300209	00	0001276	CJAL FIRED BOILER
18	0060	0003	S	03	10300209	00	0000992	CJAL FIRED BOILER
18	0060	0003	S	04	10300402	00	0000214	NAT GAS FIRED BOILER

NUMBER OF RECORDS IN THIS OWNS IS 8

TOTAL NUMBER OF QUICK LOOK LINES EQUALS 15

(Page 5 of 5)

Figure PST27-2 - continued. Sample Output

EIS/PS Test 28 - Ad Hoc

Execute an EIS/PS Language Retrieval and Produce a Formatted Dump of the Answer File

In this test run, an answer file is produced using the cataloged procedure EPRTM30 which executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and PRTGENR (EP0150), the generated retrieval program. The answer file produced by this procedure is listed in a formatted dump using the cataloged procedure EPRPM30 which executes PRPDUMP (EP0220), the master file formatted dump program.

The retrieval control cards input to PRTLNGP (EP0140) are coded using EIS/PS retrieval language. The cards shown in Figure PST28-1 specify that all comment records associated with state 06, county 1960, and AQCR 053 are to be retrieved. All plant and point records to which the comment records are subordinate will be retrieved as well as all SCC records which are subordinate to a retrieved point record. The answer file containing these records will be listed in a formatted dump by PRPDUMP (EP0220). See EIS/PS Test 10 for a discussion of the retrieval package and EIS/PS Test 5 for a discussion of PRPDUMP (EP0220).

The run stream for this test run contains the JCL needed to produce an answer file and list it in a formatted dump. This run stream is shown in Figure PST28-1.

Substitutable parameters are used when executing EPRTM30 to supply the names of the master file input and the answer file output for PRTGENR (EP0150). The names of these files are EPMSTR6 and EPANSR7, respectively. A substitutable parameter is used when executing EPRPM30 to supply EPANSR7 as the name of the master file input to PRPDUMP (EP0220). The DD (data definition) information for the retrieval control cards is also supplied. Sample output produced by this run stream is shown in Figure PST28-2.


```

//PSTEST28 JOB      (ACCOUNTING INFO)
//*
//*  RETRIEVE ALL INFORMATION FOR POINTS IN A CERTAIN
//*  COUNTY THAT HAVE COMMENT RECORDS; DUMP THE ANSWER
//*  FILE
//*
//TEST28A EXEC EPRM30,
//      MSTRFIL=EPMSR6,
//      ANSWRFL=FPANSR7
//*
//*  RETRIEVE FROM THE RECORDS IN STATE 06, COUNTY 1960, AND
//*  AUCK 53; LIMIT THE RETRIEVAL TO THOSE POINTS IN THE
//*  COUNTY THAT HAVE COMMENT RECORDS
//*
//COMPILE.INPUT DD *
$$SELECT
STATE              = '06'                                AND
COUNTY            = '1960'                              AND
AUCK                = '053'                              AND
LINE-NUMBER        = LINE-NUMBER
$$END
//TEST28A EXEC EPRM30,
//      MSTRFIL=FPANSR7
//*
//*  PRODUCE A FORMATTED DUMP OF THE ANSWER FILE
//*  FROM STEP A
//*

```

Figure PST28-1. Run Stream

ETS/PS RETRIEVAL LANGUAGE PROCESSING - DIAGNOSTIC MESSAGES

PROGRAM NAME: PRTLNCP (EP0140)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

```

INPUT (CONTROL CARDS)
$$$SELECT
STATE           = '06'          AND
COUNTY         = '1960'        AND
AUCK            = '053'         AND
LINE-NUMBER     = LINE-NUMBER
$$$END

NUMBER OF CONTROL CARDS READ: 6
NUMBER OF ERRORS DETECTED: 0
    
```

Figure PST28-2. Sample Output

PROGRAM NAME: PRIGENR (EP0150)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ:	169
NUMBER OF ANSWER FILE RECORDS WRITTEN:	40
NUMBER OF ERRORS DETECTED:	0

(Page 2 of 5)

Figure PST28-2 - continued. Sample Output

PROGRAM NAME: PMPDUMP (EP0220)
REVISION LEVEL: 1-00
LAST UPDATE #: P-1
DATE INCORPORATED: FEBRUARY 1, 1980

PLANT (SEGMENT 0) RECORD COUNT:	2
POINT SOURCE (SEGMENT 1) RECORD COUNT:	4
POINT SOURCE POLLUTANT COUNT:	8
MACHINE PROCESS (SEGMENT 2) RECORD COUNT:	21
MACHINE PROCESS POLLUTANT COUNT:	84
PERMITS & REGISTRATION (SEGMENT 3) RECORD COUNT:	6
AVERAGE NUMBER OF POINT SOURCES PER PLANT:	2.0
AVERAGE NUMBER OF POLLUTANTS PER POINT SOURCE:	2.0
AVERAGE NUMBER OF MACHINE PROCESSES PER POINT SOURCE:	5.3
AVERAGE NUMBER OF POLLUTANTS PER MACHINE PROCESS:	4.0
AVERAGE NUMBER OF PERMITS & REGISTRATION SEGMENTS PER POINT SOURCE:	1.5
TOTAL NUMBER OF RECORDS READ:	40
NUMBER OF ERRORS DETECTED:	0
NUMBER OF PAGES IN REPORT:	6

(Page 3 of 5)

Figure PST28-2 - continued. Sample Output

(Page 4 of 5)

[illegible]

EIS/PS Test 29 - Ad Hoc

Execute a COBOL Retrieval Specifying a Copy Member and Produce a Detailed Report of the Answer File

In this test run, a COBOL retrieval is executed using the cataloged procedure EPRTM30 which executes PRTLNGP (EP0140), the retrieval language processor program; the COBOL compiler; the linkage editor; and PRTGENR (EP0150), the generated retrieval program. The answer file produced by this procedure is listed using the cataloged procedure EPRPM20 which executes PRPMSTR (EP0210), the master file detailed report program.

The \$\$SELECT card of the retrieval control cards input to PRTLNGP (EP0140) contains the name of a copy member that is to be combined with PRTSKEL, the retrieval skeleton program. The name of the copy member is COPYMEM1 and it has been stored in the EIS/PS source library for the purpose of producing this test run. This copy member is not contained in the user's EIS/PS source library. A COBOL copy statement containing the name of the copy member will be inserted into PRTSKEL. The COBOL compiler will include the copy member at that point in the program. The final generated program, PRTGENR (EP0150), will produce an answer file which will be listed by PRPMSTR (EP0210). See EIS/PS Test 10 for a discussion of the retrieval package and EIS/PS Test 9 for a discussion of PRPMSTR (EP0210).

The run stream for this test run contains the JCL needed to execute the retrieval package and list the answer file. This run stream is shown in Figure PST29-1.

Substitutable parameters are used when executing EPRPM30 to supply the COBOL compiler options, the name of the master file input to PRTGENR (EP0150), and the name of the answer file output from PRTGENR (EP0150). The names of the files are EPMSTR6 and EPANSR8, respectively. The COBOL compiler options are 'SIZE=124K,BUF=30K,NOSEQ,SUPMAP,SOURCE'. These options may vary depending upon the installation.

A substitutable parameter is also used when executing EPRPM20 to supply EPANSR8 as the name of the master file input to PRPMSTR (EP0210). The DD

(data definition) information for the retrieval control cards is also supplied.

The page of the compiler listing which contains the COBOL copy member is exhibited in Figure PST29-2. Sample output produced by this test run is shown in Figure PST29-3.


```

//PSTEST29 JOB      (ACCOUNTING INFO)
/**
/***  RETRIEVE RECORDS USING A COPY MEMBER TO
/***  SUPPLY THE RETRIEVAL SPECIFICATIONS;
/***  PRODUCE A DETAILED LIST OF THE ANSWER FILE
/***
//TEST29A EXEC EPRTM30,
//      PARAM='SIZE=124K,BUF=30K,NOSEU,SUPMAP,SOURCE',
//      MSTRFIL=EPMSTR6,
//      ANSWRFL=FPANSKR
/**
/***  ACCESS THE COPY MEMBER, COPYMEM1, TO
/***  GET RETRIEVAL SPECIFICATIONS
/***
//COMPILE.INPUT DD *
*$SELECT USER COPYMEM1
*$END
//      DD DSN=SYS2.COR4LIP,DISP=SHR
//TEST29B EXEC EPKPM20,
//      MSTRFIL=FPANSKR
/**
/***  PROVIDE A DETAILED REPORT FOR THE ANSWER FILE PRODUCED IN
/***  STEP A
/***

```

Figure PST29-1. Run Stream

```

00967      MOVE PRINT-DATA TO PRINT-SAVE.
00968      PERFORM PRINT-HEADER THRU PRINT-HEADER-END
00969      VARYING HDR-SUB FROM BINARY-1 BY BINARY-1
00970      UNTIL HDR-SUB IS GREATER THAN ANH-OF-HDRS.
00971      MOVE BINARY-3 TO LINE-SKIP.
00972      MOVE PRINT-SAVE TO PRINT-DATA.
00973      HEADER-ROUTINE-END.
00974      EXIT.
00975
00976
00977
00978
00979
00980
00981      PRINT-HEADER.
00982      MOVE LINES-SKIPPED (HDR-SUB) TO LINE-SKIP.
00983      IF LINE-SKIP IS EQUAL TO NEW-PAGE
00984      MOVE PAGE-NO TO PAGE-NUMBER
00985      ADD BINARY-1 TO PAGE-NO
00986      MOVE HEADER (HDR-SUB) TO PRINT-DATA
00987      WRITE PRINT-LINE
00988      AFTER ADVANCING TO-NEW-PAGE
00989      MOVE BINARY-1 TO LINE-CTR
00990      ELSE
00991      MOVE HEADER (HDR-SUB) TO PRINT-DATA
00992      WRITE PRINT-LINE
00993      AFTER ADVANCING LINE-SKIP LINES
00994      ADD LINE-SKIP TO LINE-CTR.
00995      PRINT-HEADER-END.
00996      EXIT.
00997
00998
00999      QUALIFICATION SECTION.
01000      COPY CUPMEM1.
01001      QUALIFY-RECORDS.
01002      IF ESTABLISHMENT IS NOT EQUAL TO SPACES OR
01003      MAILING-ADDRESS IS NOT EQUAL TO SPACES OR
01004      COMMENTS IS NOT EQUAL TO SPACES
01005      MOVE TRUE TO QUALIFICATION-ACHIEVED-SW.
01006      QUALIFY-RECORDS-END.
01007      EXIT.
01008
01009      SFT-QUALIFICATION-LEVEL SECTION.
01010      SFT-QUAL-LEVEL.
01011      MOVE REQUIRE-3-QUAL TO QUALIFICATION-REQUIRED.
01012      SFT-QUAL-LEVEL-END.
01013      EXIT.

```

Figure PST29-2. Source Listing Page Containing Copy Member

FIS/PS RETRIEVAL LANGUAGE PROCESSOR - DIAGNOSTIC MESSAGES

PROGRAM NAME: PRTNGP (EP0146)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

INPUT (CONTROL CARDS)

\$\$\$SELECT USER COPYMEM1

\$\$\$END

NUMBER OF CONTROL CARDS READ: 2
 NUMBER OF ERRORS DETECTED: 0

FIS/PS GENERATED RETRIEVAL PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRTNGP (EP0150)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ: 160
 NUMBER OF ANSWER FILE RECORDS WRITTEN: 49
 NUMBER OF ERRORS DETECTED: 0

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Figure PST29-3. Sample Output

FIS/PS MASTER FILE DETAILED REPORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: FPMWSIR (FPM210)
 REVISION LEVEL: 1-00
 LAST UPDATE #: F-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF SEGMENT 1 RECORDS PRINTED:	4
NUMBER OF SEGMENT 2 RECORDS PRINTED:	6
NUMBER OF SEGMENT 3 RECORDS PRINTED:	24
NUMBER OF SEGMENT 4 RECORDS PRINTED:	15

EIS/PS MASTER FILE DETAILED REPORT

STATE COUNTY AGENCY PLANT ID
06 1460 053 0001

DATE SEGMENT POINT SCC SCC SEG BFC
YEAR DAY TYPE ID 1 11 III IV 02 123 01
80 065 2 01 4 03 001 02 02

FUEL - MAX DESIGN Sulfur ASH HEAT
RATE CONTENT CONTENT CONCENTR SOURCE
0004.000 0.23 01.2 00150 1 H

WENDS FLAG SCC FLAG E I S F L A G S
P6 S 21 22 24 25
P7 S S S S

POLLUTANT 22104 DELETED ON 03/21/80

EMISSION ASH / FACTOR EMISSIONS EIS FLAG
P6 S 21 22 24 25
P7 S S S S

NUMBER OF POLLUTANT
03

EMISSION ASH / FACTOR EMISSIONS EIS FLAG
P6 S 21 22 24 25
P7 S S S S

ENGINE EXHAUST FUMES
TSP 000000.050 A 1 0000000 S
NOX 000000.000 2 0000000 S
CO 000000.080 S 1 0000000 S

EIS/PS MASTER FILE DETAILED REPORT

STATE COUNTY AGENCY PLANT ID
06 1460 053 0001

DATE SEGMENT POINT SCC SCC SEG BFC
YEAR DAY TYPE ID 1 11 III IV 02 123 01
80 065 2 01 4 03 001 02 02

FUEL - MAX DESIGN Sulfur ASH HEAT
RATE CONTENT CONTENT CONCENTR SOURCE
0004.000 0.23 01.2 00150 1 H

WENDS FLAG SCC FLAG E I S F L A G S
P6 S 21 22 24 25
P7 S S S S

POLLUTANT 22104 DELETED ON 03/21/80

EMISSION ASH / FACTOR EMISSIONS EIS FLAG
P6 S 21 22 24 25
P7 S S S S

NUMBER OF POLLUTANT
03

EMISSION ASH / FACTOR EMISSIONS EIS FLAG
P6 S 21 22 24 25
P7 S S S S

ENGINE EXHAUST FUMES
TSP 000000.050 A 1 0000000 S
NOX 000000.000 2 0000000 S
CO 000000.080 S 1 0000000 S

DATE LINE ETS COMMENT
80 065 001 S THIS COMMENT ADDED 03/21/80
80 065 021 S PLANT NOT FOLLOWING GUIDELINES AS SET DOWN 12/14/79 WILL NOT BE CITED FOR VIOLATIONS
80 065 022 S THIS IS THE END OF THIS COMMENT

STATE COUNTY AUCH PLANT ID
06 1960 053 0001

SEGMENT POINT SEQ
TYPE ID NDR
3 01 03

DATE LINE EIS COMMENT
YR DAY YHR FL 30
80 066 001 A START COMMENT
80 066 002 A CONTINUE MONITORING THIS PLANT UNTIL FURTHER NOTICE
80 066 003 A CITE PLANT FOR VIOLATIONS OCCURRING AFTER 03/06/80
80 066 004 A END COMMENT

STATE COUNTY AUCH PLANT ID
06 1960 053 0001

SEGMENT POINT SEQ
TYPE ID NDR
3 01 04

DATE LINE EIS COMMENT
YR DAY YHR FL 30
80 066 001 A START COMMENT
80 066 002 A THIS IS A TEST COMMENT.....PAGE-BREAK OCCURS DUE TO CHANGE IN SEQUENCE NUMBER
80 066 003 A END COMMENT

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EIS/PS Test 30 - Ad Hoc

Generate Master File Emission Factor Transactions and Insert Emission Factors

In this test run, master file emission factor transactions are generated and emission factors are inserted into them using the cataloged procedure EPMSM10. This procedure executes PMSEFGN (EP0130), the master file emission factor transaction generator program; PSREFIN (EP0090), the master file internal transaction pre-insertion sort program; and PMSEFIN (EP0100), the master file internal transaction emission factor insertion program.

PMSEFGN (EP0130) generates EIS/PS 21 and 23 internal transactions to update the emission factor information in the master file SCC records. The transactions created by PMSEFGN (EP0130) must be sorted by the master file internal transaction pre-insertion sort program, PSREFIN (EP0090), and processed by the master file internal transaction emission factor insertion program, PMSEFIN (EP0100), before they can be used to update the master file. See EIS/PS Test 7 for a discussion of PMSEFGN (EP0130) and EIS/PS Test 4 for a discussion of PSREFIN (EP0090) and PMSEFIN (EP0100).

The run stream for this test run contains the JCL needed to generate master file emission factor transactions and insert emission factors into them. This run stream is shown in Figure PST30-1.

Substitutable parameters are used to supply the names of the master file input to PMSEFGN (EP0130), the transaction file output from PMSEFGN (EP0130) and input to PSREFIN (EP0090), and the emission factor file input to PMSEFIN (EP0100). The names of these files are EPMSTR6, EPINTR8, and EPEMFC2, respectively. The DD (data definition) information for the option card input to PMSEFGN (EP0130) is also supplied. No DD information for the option card input to PMSEFIN (EP0100) is necessary since the option card is generated by PMSEFGN (EP0130) and passed directly to PMSEFIN (EP0100). Sample output produced by this run stream is shown in Figure PST30-2.


```

//PSTEST30 JOB      (ACCOUNTING INFO)
//*
//*  GENERATE EMISSION FACTOR INTERNAL TRANSACTIONS FROM
//*  THE MASTER FILE
//*
//TEST30A EXEC EPMSM10,
//      FMFCFIL=EPFMFL2,
//      MSTNFILE=EPMSTN6,
//      NEWINTR=EPINTR8
//*
//*  GENERATE TRANSACTIONS FOR FEDERAL-ORIGIN SCC RECORDS AND
//*  FOR WHICH THE CORRESPONDING EMISSION FACTOR RECORD HAS A
//*  DATE NO LESS THAN 1980, DAY 57, AND THE MASTER FILE RECORD
//*  HAS A DATE LESS THAN THAT CUTOFF DATE
//*
//GENER. OPTIONS DD *
F      80057      FLAG*

```

Figure PST30-1. Run Stream

PROGRAM NAME: PMSEFGN (EP0130)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAG

ORIGIN AND SOURCE SPECIFIED: FEDERAL

DATE SPECIFIED: 80057

0619600530000040100022206001980500000	*** PMSEFGN 004 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD FOR ORIGIN/SOURCE AND DATE SPECIFIED
0619600530000040100022302005010000000	*** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE
0619600530000040100022302005020200000	*** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE
0619600530000040100022403001040100000	*** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE
062004053112733010127302005010000000	*** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE
062004053112733010127302005020200000	*** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE
062004053112733011127302005010000000	*** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE
062004053112733011127302005020200000	*** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

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Figure PST30-2. Sample Output

MASTER FILE EMISSION FACTOR TRANSACTION GENERATOR PROGRAM

340040203000000600022102006030000000
 *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

340040203000000600032102006030000000
 *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

340040203000000700012102006030000000
 *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

340040203000000000012102005030000000
 *** PMSEFGN 005 WARNING - NO TRANSACTION GENERATED DUE TO MASTER FILE DATE

PROGRAM NAME: PMSEFGN (EP0130)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF MASTER FILE RECORDS READ:	169
NUMBER OF EMISSION FACTOR RECORDS READ:	638
NUMBER OF 21 TRANSACTIONS CREATED:	1
NUMBER OF 23 TRANSACTIONS CREATED:	4
NUMBER OF WARNING MESSAGES:	52
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

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Figure PST30-2 - continued. Sample Output

PLUS/PS MASTER FILE INTERNAL TRANSACTION PWT-INSERTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSMTFIA (E00000)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 5
 NUMBER OF OUTPUT TRANSACTIONS: 5

MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

PROGRAM NAME: PMSEFIN (EP0100)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: FLAG

FIELDS SELECTED FOR INSERTIONS: SUL ASH EMISSION EDAT 80057

FIELDS TO BE OVERRIDDEN: NONE

FLAG SUL 1 ASH 1 EMISSION 1 EDAT 80057 R

*** PMSEFIN 012 ERROR - NO VALID OVERRIDES SPECIFIED - NO OVERRIDES ASSUMED

SULFUR 1 N ASH 1 N EMISSION FACTOR 1 N DATE: EMISSION FACTOR 80057 TRANSACTION N

06196005300000401000223020020110000000232061960053004180057 F 42101 230

*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

06196005300000401000223020020110000000232061960053004180057 F 42401 230

*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

06196005300000401000223020020110000000232061960053004180057 F 43101 230

*** PMSEFIN 005 WARNING - NO MATCHING EMISSION FACTOR FILE RECORD

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Figure PST30-2 - continued. Sample Output

MASTER FILE INTERNAL TRANSACTION EMISSION FACTOR INSERTION PROGRAM

DATE: EMISSION FACTOR 80057 TRANSACTION N

SULFUR J N ASM J N EMISSION FACTOR I N

NUMBER OF INPUT TRANSACTIONS:	5
NUMBER OF EMISSION FACTOR RECORDS READ:	253
NUMBER OF INSERTIONS MADE:	1
NUMBER OF OUTPUT TRANSACTIONS:	5
NUMBER OF 23 TRANSACTIONS CREATED:	0
NUMBER OF WARNING MESSAGES:	3
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	1
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

(Page 5 of 5)

Figure PST30-2 - continued. Sample Output

Generate Master File Emission Factor Transactions and Update the Master File

In this test run, the master file is updated from master file emission factor transactions using the cataloged procedure EPFMM30 which executes PMSEFGN (EP0130), the master file emission factor transaction generator program; PSREFIN (EP0090), the master file internal transaction pre-insertion program; PMSEFIN (EP0100), the master file internal transaction emission factor insertion program; PSRINTR (EP0110), the master file internal transaction sort program; and PFMMSTR (EP0120), the master file maintenance program.

The purpose of this test run is to test the cataloged procedure EPFMM30. All of the programs executed by this procedure have been described in previous tests. Refer to Test 7 for a discussion of PMSEFGN (EP0130), PSREFIN (EP0090), and PMSEFIN (EP0100). A description of the file maintenance programs, PSRINTR (EP0110) and PFMMSTR (EP0120), is provided in Test 4.

The run stream for this test run contains the JCL needed to update the master file using master file emission factor transactions. This run stream is shown in Figure PST31-1.

The cataloged procedure executed by this run stream is EPFMM30. Substitutable parameters are used to specify the name of the input emission factor file as EPEMFC3 (created in Test 16), the name of the input master file as EPMSTR1 (created in Test 4), and the name of the output master file as EPMSTR7. The user must supply the DD (data definition) information for the option card files in the GENER, INSERT, and UPDATE steps. The options specified in the GENER step are F, 80050, and NOFLAGW; the options specified in the INSERT step are NOFLAGW, SUL I, ASH I, and EMISSION I; the option specified in the UPDATE step is 80. Sample output produced by this test run is shown in Figure PST31-2.

```

//PSTEST31 JOB  (ACCOUNTING INFO)
/**
/**  GENRATE MASTER FILE EMISSION FACTOR TRANSACTIONS AND
/**  UPDATE THE MASTER FILE
/**
//TEST31A FXFC EPFMM30,
//      EMFCFIL=EPFMFC3,
//      OLDWSTR=EPWSTR1,
//      NEWWSTR=EPWSTR7
/**
/**  CREATE INTERNAL TRANSACTIONS FROM THE TEST 4
/**  MASTER FILE; INSERT NEW EMISSION FACTOR FILE
/**  INFORMATION INTO THE TRANSACTIONS; UPDATE THE
/**  MASTER FILE WITH THESE TRANSACTIONS
/**
//GENER.OPTIONS DD *
F      80050 NCFIAGr
//INSERT.CARD DD *
NCFIAGM SUL I  ASH I  EMISSION I
//UPDATE.OPTIONS DD *
P0

```

Figure PST31-1. Run Stream

PROGRAM NAME: PMSEFGN (FPU130)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: NOFLAG

ORIGIN AND SOURCE SPECIFIED: FEDERAL

DATE SPECIFIED: 80050

F 80050 NOFLAG
 *** PMSEFGN OUR ERROR - INVALID FLAG OPTION SPECIFIED - NOFLAG ASSUMED^{17.}

NUMBER OF MASTER FILE RECORDS READ:	123
NUMBER OF EMISSION FACTOR RECORDS READ:	654
NUMBER OF 21 TRANSACTIONS CREATED:	0
NUMBER OF 23 TRANSACTIONS CREATED:	0
NUMBER OF WARNING MESSAGES:	46
NUMBER OF CONDITIONAL MESSAGES:	0
NUMBER OF ERROR MESSAGES:	1
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0

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Figure PST31-2. Sample Output

LTS/PS MASTER FILE INTERNAL TRANSACTION PRE-INSERTION SORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PSREFIN (EP0090)
 REVISION LFVFL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS:	0
NUMBER OF OUTPUT TRANSACTIONS:	0

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Figure PST31-2 - continued. Sample Output

PROGRAM NAME: PMSEFIN (EPUTON)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTIONS IN EFFECT: NOFLAG

FIELDS SELECTED FOR INSERTIONS: SUL ASH EMISSION EDAT 80050

FIELDS TO BE OVERRIDDEN: NONE

SUL T ASH I EMISSION I EDAT 80050 K

*** PMSEFIN 012 ERROR - NO VALID OVERRIDES SPECIFIED - NO OVERRIDES ASSUMED

SULFUR I N ASH I N EMISSION FACTOR I N

DATE: EMISSION FACTOR 80050 TRANSACTION N

NUMBER OF INPUT TRANSACTIONS: 0
 NUMBER OF EMISSION FACTOR RECORDS READ: 2
 NUMBER OF INSERTIONS MADE: 0
 NUMBER OF OUTPUT TRANSACTIONS: 0
 NUMBER OF 23 TRANSACTIONS CREATED: 0
 NUMBER OF WARNING MESSAGES: 0
 NUMBER OF CONDITIONAL MESSAGES: 0
 NUMBER OF ERROR MESSAGES: 1
 NUMBER OF ABORT MESSAGES: 0
 NUMBER OF DISASTER MESSAGES: 0

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Figure PST31-2 - continued. Sample Output

EIS/PS MASTER FILE INTERNAL TRANSACTION SPT PROGRAM

PROGRAM NAME: PSRINTP (EP0110)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

NUMBER OF INPUT TRANSACTIONS: 0
 NUMBER OF OUTPUT TRANSACTIONS: 0

EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES

PROGRAM NAME: PFMSIR (EP0120)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-1
 DATE INCORPORATED: FEBRUARY 1, 1980

OPTION CARD

CONTROL DATE IS 80 , EPOCH OPTION IS NOFLAG, LIST OPTION IS NOLIST

EIS FILE MAINTENANCE PROGRAM - DIAGNOSTIC MESSAGES

NUMBER OF INPUT TRANSACTIONS READ	0
NUMBER OF DISASTERS DETECTED	0
NUMBER OF ABORTS DETECTED	0
NUMBER OF ERRORS DETECTED	0
NUMBER OF CONDITIONS DETECTED	0
NUMBER OF WARNINGS DETECTED	0
NUMBER OF TRANSACTIONS REJECTED	123
NUMBER OF POINT SOURCE FILE RECORDS READ IN	123
NUMBER OF POINT SOURCE FILE RECORDS WRITTEN OUT	123

Produce a Multipollutant Summary Report in the Point Format

In this test run, a multipollutant summary report is generated in the point format using the cataloged procedure EPRPM40. This procedure executes PRPPSUM (EP0240), the master file multipollutant summary report program.

PRPPSUM (EP0240) produces a report which summarizes the emissions estimates in the master file for a maximum of ten user-specified pollutant ID's. The report may be generated in one of five formats: point, plant, AQCR, county, or state. The report format as well as the pollutant ID's and their report headings are specified via control cards.

The type of report that should be generated depends on the needs of the user. If the user requires that the emissions estimates in the point record for the specified pollutant ID's be listed, the summary report must be generated in the point format. This report will also list the total emissions for each specified pollutant ID by plant, AQCR, county, and state. If the user does not need the emissions printed for each point, the report may be generated in either the plant format, which lists the emissions by plant, AQCR, county, and state; the AQCR format, which lists the emissions by AQCR, county, and state; the county format, which lists the emissions by county and state; or the state format, which lists the emissions by state.

There are five types of control cards which can be input to PRPPSUM (EP0240). The type-1 control card allows the user to specify the pollutant ID's to be used in producing the report and the date which will be printed at the top of each report page. Page 1 of Figure PST32-1 shows the fields in which the pollutant ID's and the date must be coded.

At least one pollutant ID must be specified on the type-1 control card; and each specified pollutant ID must be numeric. Also, the pollutant ID's must be coded in consecutive fields starting with the first field of the control card. Note that a maximum of ten pollutant ID's can be specified. A '1' must be coded in card column 80. If there is not a valid type-1 control card in the run stream, program execution will be terminated.

A descriptive heading for each pollutant ID specified on the type-1 control card will be printed at the top of every report page. Each heading is composed of three nine-character lines. Control card types 2, 3, and 4 allow the user to supply the first two lines of the headings for the pollutant ID's which are to be reported; the third line is supplied by the program and contains the corresponding pollutant ID specified on the type-1 control card. Pages 2, 3, and 4 of Figure PST32-1 show the fields in which the pollutant ID headings must be coded. The correct card type must be specified in card column 80.

The type-5 control card allows the user to specify the type of summary report to be generated. The type of report is determined by the option specified in the report format option field. Either POINT, PLANT, AQCR, COUNTY, or STATE can be coded beginning in the first column of this field. Also, a '5' must be coded in card column 80. Page 5 of Figure PST32-1 shows the type-5 control card format. If the type-5 control card is not present in the run stream or if the report format option is specified incorrectly, the default of POINT will be assumed and the report will be generated in the point format.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST32-2 and the sample output produced by this test run is shown in Figure PST32-3.

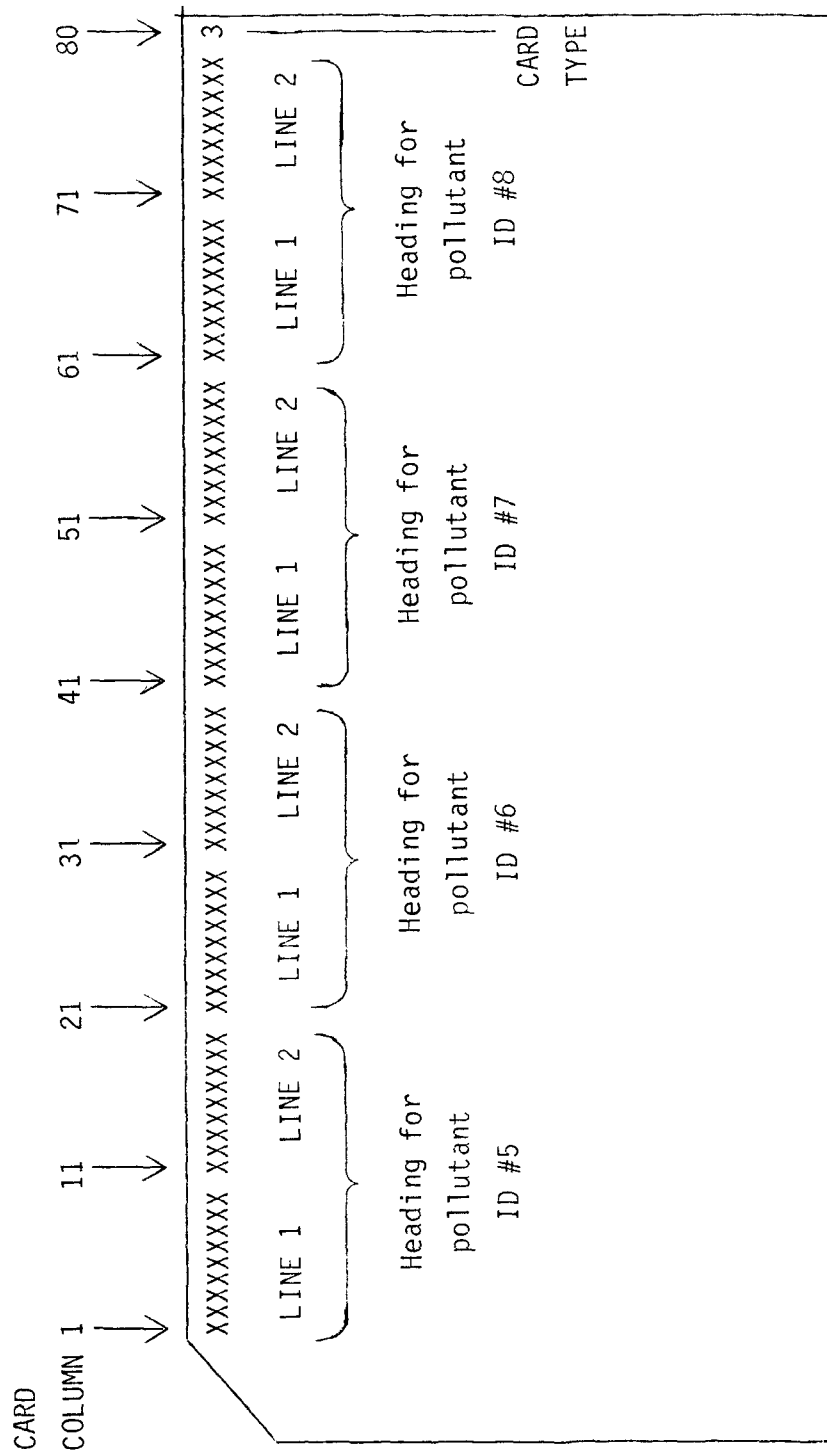
In the run stream a substitutable parameter is used to specify the input master file as EPMSTR6 (created in Test 19). The DD (data definition) information for the input option card file is also supplied in the run stream.

This test utilizes each of the five control card types. The type-1 control card contains the ten pollutant ID's to be reported. Note that the date field is blank. All of the headings for the pollutant ID's are supplied using the type-2, type-3, and type-4 control cards. The option specified on the type-5 card is POINT; thus, the multipollutant summary report will be generated in the point format.

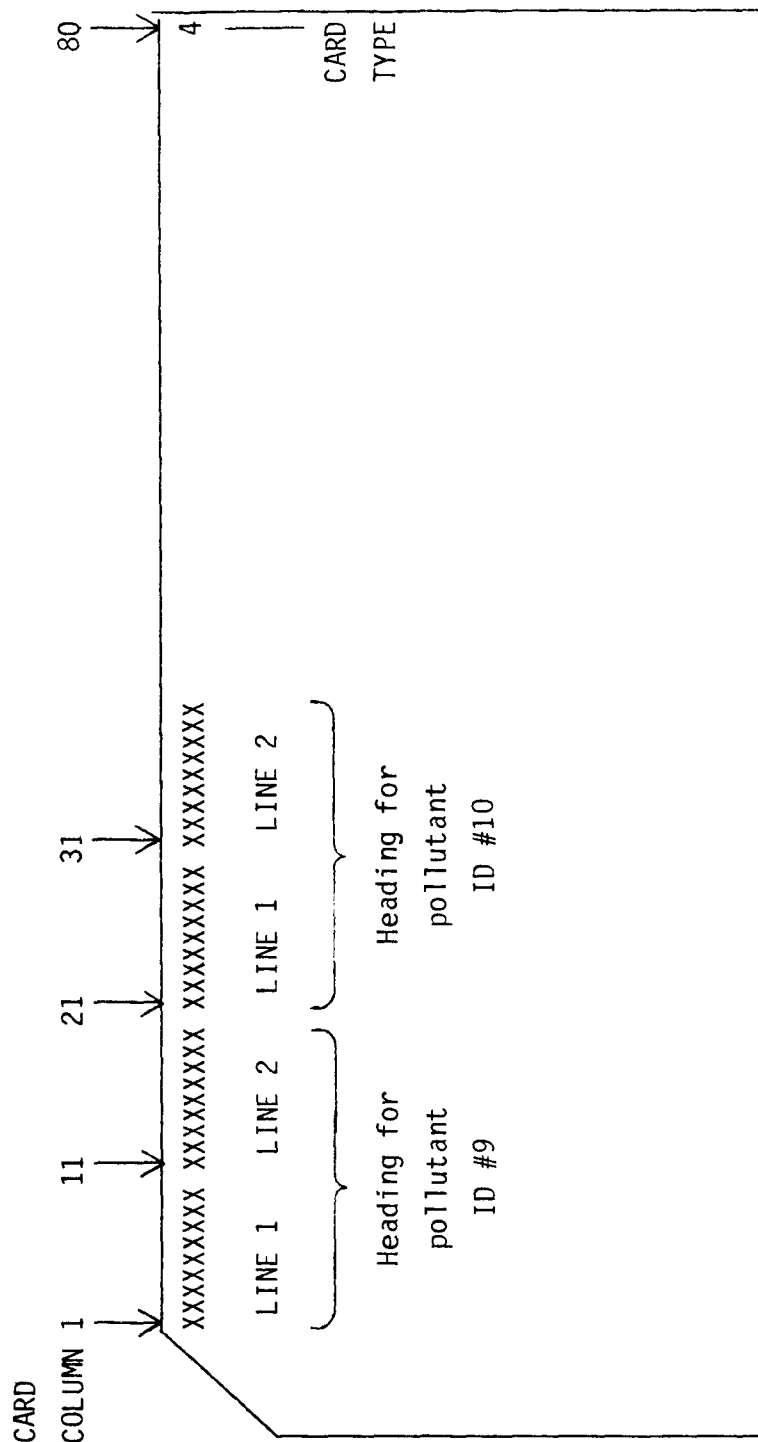
[illegible]

[illegible]

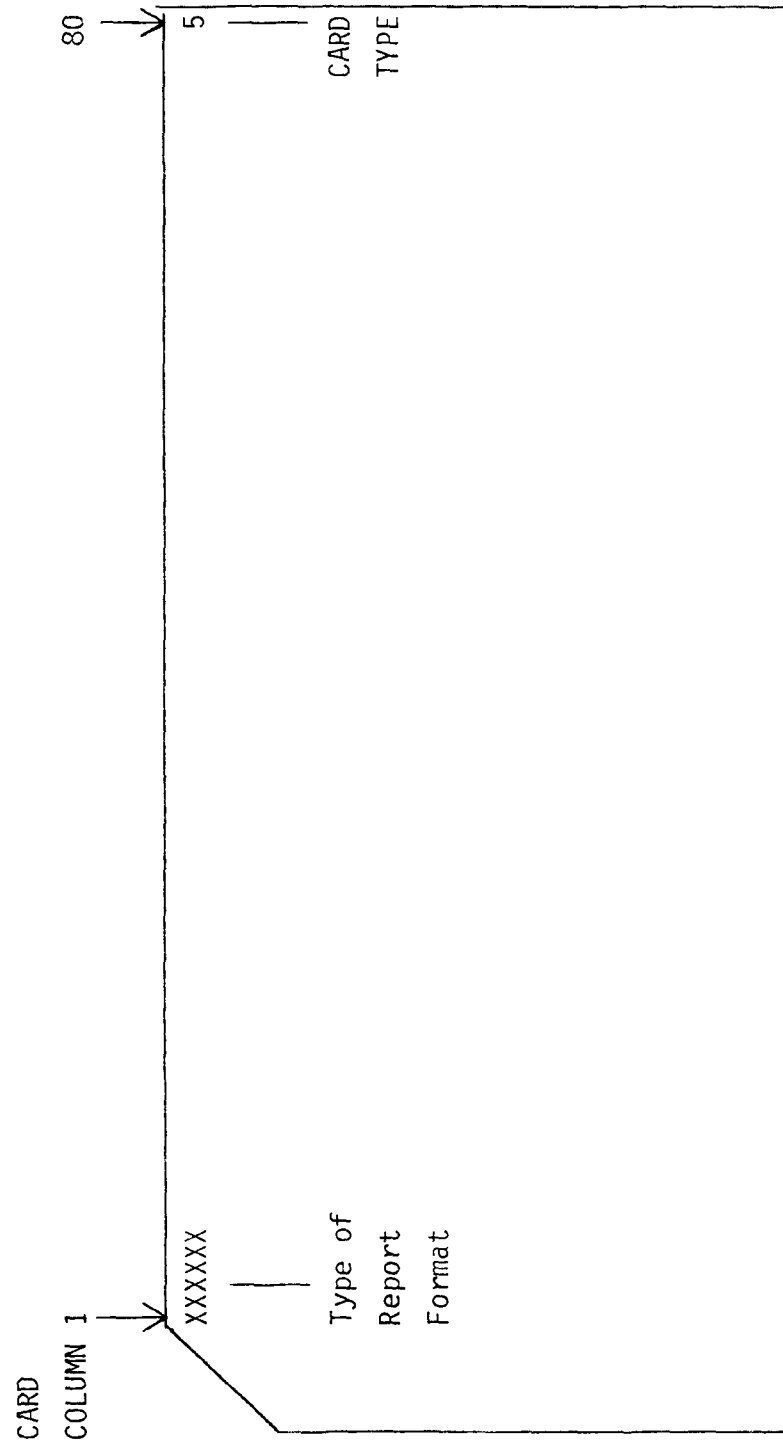
Type 3



Type 4



Type 5



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Figure PST32-1 - continued. Control Card Formats

```

//PSTEST32 JOB      (ACCOUNTING INFO)
//*
//*   PRODUCE A MULTI-POLLUTANT SUMMARY REPORT USING THE POINT OPTION
//*
//TEST32 EXEC EPRPM40,
//      MSTHFILE=FPMSTRA
//*
//*   GENERATE THE REPORT FOR A MAXIMUM NUMBER OF POLLUTANTS, 10
//*
//REPORT.OPTION DD *
11101 42101 42401 42602 43101 44201 12128 11337 26202 26301      1
SUSPENDED PARTICULA CARBON MONOXIDE SULFUR DIOXIDE NITROGEN DIOXIDE 2
TOTAL HYDROCARB OZONE LEAD URANIUM --235 3
HYDROCARB OCTANE BUTYL ALCOHOL 4
POINT 5
/*

```

Figure PST32-2. Run Stream

EIS/PS MULTIPOLLUTANT SUMMARY REPORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRPPSUM (EP0240)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-2
 DATE INCORPORATED: SEPTEMBER 1, 1980

OPTIONS IN EFFECT:

EMISSION TOTALS TO BE GENERATED ARE: POINT

POLLUTANTS SUMMARIZED ARE: 11101 42101 42401 42602 43101 44201 12128 11337 26202 26301

HEADINGS SUPPLIED BY USER ARE:
 SUSPENDED CARBON SULFUR NITROGEN TOTAL URANIUM HYDROCARB BUTYL
 PARTICULA MONOXIDE DIOXIDE DIOXIDE HYDROCARB OZONE LEAD --235 OCTANE ALCOHOL

NUMBER OF PLANT RECORDS READ: 32
 NUMBER OF POINT RECORDS READ: 53
 NUMBER OF SCC RECORDS READ: 69
 NUMBER OF COMMENT RECORDS READ: 15
 TOTAL NUMBER OF MASTER FILE RECORDS READ: 169
 NUMBER OF CONTROL CARDS READ: 5
 NUMBER OF ABORT MESSAGES: 0
 NUMBER OF DISASTER MESSAGES: 0
 NUMBER OF ERROR MESSAGES: 0

(Page 1 of 2)

Figure PST32-3. Sample Output

THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT

STATE COUNTY AQCR PLANT POINT		SUSPENDED CARBON PARTICULA 11101	CARBON MONOXIDE 42101	SULFUR DIOXIDE 42401	NITROGEN DIOXIDE 42602	TOTAL HYDROCARB 43101	OZONE 44201	LEAD 12128	URANIUM --235 11337	HYDROCARB OCTANE 26202	BUTYL ALCOHOL 26301
* TOTALS FOR PLANT 0001		0	0	0	0	0	0	0	0	0	0
18	0040 224 0002 01	0	0	0	0	0	0	0	0	0	0
* TOTALS FOR PLANT 0002		0	0	0	0	0	0	0	0	0	0
18	0040 224 0005 01	123	1	29	7	0	0	0	0	0	0
	02	4	1	37	9	0	0	0	0	0	0
	03	3	1	28	7	0	0	0	0	0	0
	04	3	1	4	1	0	0	0	0	0	0
	05	0	0	3	2	0	0	0	0	0	0
	06	0	0	2	4	2	0	0	0	0	0
	07	0	0	2	4	1	1	0	0	0	0
* TOTALS FOR PLANT 0005		133	4	105	34	3	3	0	0	0	0
** TOTALS FOR AQCR 224		133	4	105	34	3	3	0	0	0	0
*** TOTALS FOR COUNTY 0040		133	4	105	34	3	3	0	0	0	0
18	0060 224 0001 01	7	0	0	0	0	0	0	0	0	0
* TOTALS FOR PLANT 0001		7	0	0	0	0	0	0	0	0	0
18	0060 224 0002 01	0	0	1	1	0	0	0	0	0	0
* TOTALS FOR PLANT 0002		0	0	1	1	0	0	0	0	0	0
18	0060 224 0003 01	247	4	130	28	2	2	0	0	0	0
	02	109	2	57	13	1	1	0	0	0	0
	03	454	7	239	52	3	3	0	0	0	0
	04	4	1	26	7	1	1	0	0	0	0
* TOTALS FOR PLANT 0003		814	14	452	100	7	7	0	0	0	0
** TOTALS FOR AQCR 224		821	14	453	101	7	7	0	0	0	0
*** TOTALS FOR COUNTY 0060		821	14	453	101	7	7	0	0	0	0
**** TOTALS FOR STATE 18		954	18	558	135	10	10	0	0	0	0

EIS/PS Test 33 - Ad Hoc

Produce a Multipollutant Summary Report in the Plant Format

In this test run, a multipollutant summary report is generated in the plant format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST33-1 and the sample output produced by this test run is shown in Figure PST33-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR5 (created in Test 11). The DD (data definition) information for the input option card file is also supplied in the run stream.

Only two control cards are input to PRPPSUM (EP0240): the type-1 and type-5 cards. The options coded on the type-1 card indicate that the emissions for the pollutant ID's 11101 and 42401 are to be reported and that the date September 1, 1980, will be printed at the top of each report page. The option specified on the type-5 card is PLANT; thus, the multipollutant summary report will be generated in the plant format. All of the headings for the pollutant ID's are generated by PRPPSUM (EP0240) since they are not supplied on the type-2 control card.

```

//PSTEST33 JOB      (ACCOUNTING INFO)
/**
/***  PRODUCE A MULTI-POLLUTANT SUMMARY REPORT USING
/***  THE PLANT OPTION
/**
//TEST33 EXEC FPRPM40,
//      MSTKFIL=FPKMSTR5
/**
/***  GENERATE THE REPORT FOR 2 POLLUTANTS,
/***  TSP AND CL
/**
//REPORT.OPTION DD *
11101 42401
PLANT
/*

```

SEPTEMBER 1, 1980 1
5

Figure PST33-1. Run Stream

PROGRAM NAME: PRPP3UM (EP0240)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-2
 DATE INCORPORATED: SEPTEMBER 1, 1980

OPTIONS IN EFFECT:

REPORT DATE IS: SEPTEMBER 1, 1980

EMISSION TOTALS TO BE GENERATED ARE: PLANT

POLLUTANTS SUMMARIZED ARE: 11101 42401

HEADINGS ARE GENERATED

NUMBER OF PLANT RECORDS READ:	32
NUMBER OF POINT RECORDS READ:	53
NUMBER OF SCC RECORDS READ:	69
NUMBER OF COMMENT RECORDS READ:	8
TOTAL NUMBER OF MASTER FILE RECORDS READ:	162
NUMBER OF CONTROL CARDS READ:	2
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0

(Page 1 of 2)

Figure PST33-2. Sample Output

THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT

DATE: SEPTEMBER 1, 1980

STATE COUNTY AQCR PLANT POINT		POLLUTANT POLLUTANT	
-----		11101	42401
-----		-----	-----
18	0060 224 0003 -TOTAL-	814	452
18	0060 224 -TOTAL-	821	453
18	0060 -TOTAL-	821	453
18	-TOTAL-	954	558
34	0040 203 0001 -TOTAL-	12	24
34	0040 203 0002 -TOTAL-	0	0
34	0040 203 0003 -TOTAL-	1	10
34	0040 203 0004 -TOTAL-	0	0
34	0040 203 0005 -TOTAL-	46	156
34	0040 203 0006 -TOTAL-	0	0
34	0040 203 0007 -TOTAL-	0	0
34	0040 203 0008 -TOTAL-	0	0
34	0040 203 -TOTAL-	59	190
34	0040 -TOTAL-	59	190
34	-TOTAL-	59	190

(Page 2 of 2)

Figure PST33-2 - continued. Sample Output

EIS/PS Test 34 - Ad Hoc

Produce a Multipollutant Summary Report in the AQCR Format

In this test run, a multipollutant summary report is generated in the AQCR format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST34-1 and the sample output produced by this test run is shown in Figure PST34-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR2 (created in Test 5). The DD (data definition) information for the input option card file is also supplied in the run stream.

The options coded on the type-1 control card indicate that the emissions for six pollutant ID's are to be reported and that the date, 09/10/80, will be printed at the top of each report page. Three of the six pollutant headings are supplied using the type-2 and type-3 control cards. The remaining three headings are generated by PRPPSUM (EP0240) since they are not supplied on the control cards. The option specified on the type-5 card is AQCR; thus, the multipollutant summary report will be generated in the AQCR format.

```

//PSTEST34 JOB  (ACCOUNTING INFO)
//*
//*  PRODUCE A MULTI-POLLUTANT SUMMARY REPORT
//*  WITH THE AQCR OPTION
//*
//TEST34 EXEC FPRPM40,
//      MSTRFIL=EPMSTR2
//*
//*  GENERATE THE REPORT FOR THE 5 CRITERIA POLLUTANTS,
//*  PLUS U-235
//*
//REPORT OPTION DD *
11101 42101 42401 42602 11337 43101          09/10/P0          1
SUSPENDED PARTICULA          SULFUR      DICXIDE          2
URANIUM      -235                                3
AQCR                                5
/*

```

Figure PST34-1. Run Stream

PROGRAM NAME: PRPPSUM (EP0240)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-2
 DATE INCORPORATED: SEPTEMBER 1, 1980

OPTIONS IN EFFECT:

REPORT DATE IS: 09/10/80

EMISSION TOTALS TO BE GENERATED ARE: AQCR

POLLUTANTS SUMMARIZED ARE: 11101 42101 42401 42602 11337 43101

HEADINGS SUPPLIED BY USER ARE:

SUSPENDED		
PARTICULA POLLUTANT DIOXIDE	POLLUTANT	POLLUTANT
	SULFUR	URANIUM
		-235

NUMBER OF PLANT RECORDS READ:	33
NUMBER OF POINT RECORDS READ:	56
NUMBER OF SCC RECORDS READ:	75
NUMBER OF COMMENT RECORDS READ:	8
TOTAL NUMBER OF MASTER FILE RECORDS READ:	172
NUMBER OF CONTROL CARDS READ:	4

NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0

Figure PST34-2. Sample Output

DATE: 09/10/80

THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT

STATE COUNTY AQCR PLANT POINT	SUSPENDED PARTICULATE 11101	SULFUR DIOXIDE 42401	POLLUTANT 42602	URANIUM 11337	POLLUTANT 43101
06 1960 053 -TOTAL-	251	660	0	0	230
06 1960 -TOTAL-	251	660	0	0	230
06 2004 053 -TOTAL-	430	660	0	0	230
06 2004 -TOTAL-	430	660	0	0	230
06 -TOTAL-	681	1320	0	0	460
08 0008 240 -TOTAL-	0	0	2	0	0
08 0008 -TOTAL-	0	0	2	0	0
08 0080 240 -TOTAL-	18	0	0	0	1
08 0080 -TOTAL-	18	0	0	0	1
08 0120 240 -TOTAL-	55	0	815	126	0
08 0120 -TOTAL-	55	0	815	126	0
08 -TOTAL-	73	0	817	126	1
18 0040 224 -TOTAL-	133	4	105	34	3
18 0040 -TOTAL-	133	4	105	34	3
18 0060 224 -TOTAL-	821	14	453	101	7
18 0060 -TOTAL-	821	14	453	101	7

(Page 2 of 2)

Figure PST34-2 - continued. Sample Output

EIS/PS Test 35 - Ad Hoc

Produce a Multipollutant Summary Report in the County Format

In this test run, a multipollutant summary report is generated in the county format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream for this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST35-1 and the sample output produced by this test run is shown in Figure PST35-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR4 (created in Test 9). The DD (data definition) information for the input option card file is also supplied in the run stream.

The options coded on the type-1 control card indicate that the emissions for the pollutant ID's 42101, 42401, 42602, and 43101 are to be reported and that the date September 10, 1980, will be printed at the top of each report page. All of the headings for the pollutant ID's are supplied using the type-2 and type-3 control cards. The option specified on the type-5 card is COUNTY; thus, the multipollutant summary report will be generated in the county format.

```

//PSTEST35 JOB (ACCOUNTING INFO)
/**
/** PRODUCE A MULTI-POLLUTANT SUMMARY REPORT USING
/** THE COUNTY OPTION
/**
//TEST35 EXEC FPPPM40,
// MSTRFIL=FPPMSTR4
/**
/** GENERATE THE REPORT FOR 4 OF THE 5 CRITERIA POLLUTANTS
/**
//REPORT.OPTION DD *
42101 42401 42602 43101          SEPT. 10, 1980      1
      CO                      NO2                      FC      2
COUNTY                      NO2                      FC      5
/*

```

Figure PST35-1. Run Stream

PROGRAM NAME: PRPPSUM (EP0240)
REVISION LEVEL: 1-00
LAST UPDATE #: P-2
DATE INCORPORATED: SEPTEMBER 1, 1980

OPTIONS IN EFFECT:

REPORT DATE IS: SEPT. 10, 1980

EMISSION TOTALS TO BE GENERATED ARE: COUNTY

POLLUTANTS SUMMARIZED ARE: 42101 42401 42602 43101

HEADINGS SUPPLIED BY USER ARE:
CO SO2 NO2 HC

NUMBER OF PLANT RECORDS READ:	33
NUMBER OF POINT RECORDS READ:	56
NUMBER OF SCC RECORDS READ:	75
NUMBER OF COMMENT RECORDS READ:	11
TOTAL NUMBER OF MASTER FILE RECORDS READ:	175
NUMBER OF CONTROL CARDS READ:	3
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0

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Figure PST35-2. Sample Output

THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT

DATE: SEPT. 10, 1980

STATE COUNTY AQCR PLANT POINT		CO		SO2		NO2		HC	
		42101	42401	42401	42602	43101			
06	1960 -TOTAL-	430	0	0	0	1280			
06	2004 -TOTAL-	200	0	0	0	0			
06	-TOTAL-	630	0	0	0	1280			
08	0008 -TOTAL-	0	2	0	0	0			
08	0080 -TOTAL-	0	0	0	0	1			
08	0120 -TOTAL-	0	815	126	0	0			
08	-TOTAL-	0	817	126	1	0			
18	0040 -TOTAL-	4	105	34	3	0			
18	0060 -TOTAL-	14	453	101	7	0			
18	-TOTAL-	18	558	135	10	0			
34	0040 -TOTAL-	7	190	62	2	0			
34	-TOTAL-	7	190	62	2	0			

(Page 2 of 2)

Figure PST35-2 - continued. Sample Output

EIS/PS Test 36 - Ad Hoc

Produce a Multipollutant Summary Report in the State Format

In this test run, a multipollutant summary report is generated in the state format using the cataloged procedure EPRPM40 which executes PRPPSUM (EP0240), the master file multipollutant summary report program. For a description of this program, refer to Test 32.

The run stream of this test run contains the JCL needed to generate a multipollutant summary report. This run stream is shown in Figure PST36-1 and the sample output produced by this test run shown in Figure PST36-2.

In the run stream a substitutable parameter is used to specify the input master file as EPMSTR3 (created in Test 6). The DD (data definition) information for the input option card file is also supplied in the run stream.

The options coded on the type-1 control card indicate that the emissions for the five criteria pollutants are to be reported and that the date, 09/10/80, will be printed at the top of each report page. All of the headings for the pollutant ID's are supplied using the type-2 and type-3 control cards. The option specified on the type-5 card is STATE; thus, the multipollutant summary report will be generated in the state format.

```

//PSTEST36 JOB  (ACCOUNTING INFO)
//*
//*  PRODUCE A MULTI-POLLUTANT SUMMARY REPORT
//*  USING THE STATE OPTION
//*
//TEST36 EXEC EPRPM40,
//      MSTRFIL=FPFMSTK3
//*
//*  GENERATE THE REPORT FOR THE 5 CRITERIA POLLUTANTS
//*
//REPORT.OPTION DD *
11101 42101 42401 42602 43101          CO          SO2          NO2          1
          TSP          HC          SO2          NO2          2
STATE          HC          SO2          NO2          3
/*          5

```

Figure PST36-1. Run Stream

EIS/PS MULTIPOLLUTANT SUMMARY REPORT PROGRAM - DIAGNOSTIC REPORT

PROGRAM NAME: PRPPSUM (EP0240)
 REVISION LEVEL: 1-00
 LAST UPDATE #: P-2
 DATE INCORPORATED: SEPTEMBER 1, 1980

OPTIONS IN EFFECT:

REPORT DATE IS: 09/10/80

EMISSION TOTALS TO BE GENERATED ARE: STATE

POLLUTANTS SUMMARIZED ARE: 11101 42101 42401 42602 43101

HEADINGS SUPPLIED BY USER ARE:

TSP	CO	SO2	NO2	HC
-----	----	-----	-----	----

NUMBER OF PLANT RECORDS READ:	33
NUMBER OF POINT RECORDS READ:	56
NUMBER OF SCC RECORDS READ:	75
NUMBER OF COMMENT RECORDS READ:	8
TOTAL NUMBER OF MASTER FILE RECORDS READ:	172
NUMBER OF CONTROL CARDS READ:	4
NUMBER OF ABORT MESSAGES:	0
NUMBER OF DISASTER MESSAGES:	0
NUMBER OF ERROR MESSAGES:	0

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Figure PST36-2. Sample Output

THE EIS/PS MULTIPOLLUTANT SUMMARY REPORT

DATE: 09/10/80

STATE	COUNTY	AQCR	PLANT	POINT	TSP 11101	CC 42101	SO2 42401	NO2 42602	HC 43101
06	-TOTAL-				681	1320	0	0	460
08	-TOTAL-				73	0	817	126	1
18	-TOTAL-				954	18	558	135	10
34	-TOTAL-				59	7	190	62	2

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Figure PST36-2 - continued. Sample Output

APPENDIX A

CROSS-REFERENCE OF TESTS, PROCEDURES, AND PROGRAMS

<u>Test</u>	<u>Procedures</u>	<u>Programs</u>
1	EPEME20	PSRNEEF (EP0010) PCVNEEF (EP0020) PSREFTR (EP0030) PEMEFAC (EP0040)
	EPRPE10	PRPEFAC (EP0230)
2	EPEME20	PSRNEEF (EP0010) PCVNEEF (EP0020) PSREFTR (EP0030) PEMEFAC (EP0040)
3	EPEME10	PSREFTR (EP0030) PEMEFAC (EP0040)
	EPRPE10	PRPEFAC (EP0230)
4	EPFMM20	PSRNETR (EP0050) PCENETR (EP0060) PSREFIN (EP0090) PMSEFIN (EP0100) PSRINTR (EP0110) PFMMSTR (EP0120)
5	EPERM10	PSRMFTR (EP0070) PEDMSTR (EP0080) PSREFIN (EP0090) PMSEFIN (EP0100) PSRINTR (EP0110) PFMMSTR (EP0120)
	EPRPM30	PRPDUMP (EP0220)
6	EPRPM10	PRPENTR (EP0200)
7	EPMSM10	PMSEFGN (EP0130) PSREFIN (EP0090) PMSEFIN (EP0100)
8	EPEDT10	PSRMFTR (EP0070) PEDMSTR (EP0080)

<u>Test</u>	<u>Procedures</u>	<u>Programs</u>
9	EPMST20 EPFMM10	PMSTCON (EP0190) PSRINTR (EP0110) PFMMSTR (EP0120)
10	EPRPM20 EPRTM30 EPRPM30	PRPMSTR (EP0210) PRTLNGP (EP0140) PRTGENR (EP0150) PRPDUMP (EP0220)
11	EPRPM10	PRPENTR (EP0200)
12	EPRPM50	PRPEPRJ (EP0250)
13	EPRTM10 EPRTM20	PRTLNGP (EP0140) PRTGENR (EP0150)
14	EPRPM20	PRPMSTR (EP0210)
15	EPSRM30	PSRLNGP (EP0160) PSRGENR (EP0170)
16	EPEME10	PSREFTR (EP0030) PEMEFAC (EP0040)
17	EPCET10	PSRNETR (EP0050) PCENETR (EP0060)
18	EPEDT10	PSRMFTR (EP0070) PEDMSTR (EP0080)
19	EPMST20 EPFMM10	PMSTCON (EP0190) PSRINTR (EP0110) PFMMSTR (EP0120)
20	EPMST10	PSREFIN (EP0090) PMSEFIN (EP0100)
21	EPRPM50	PRPEPRJ (EP0250)
22	EPRPM50	PRPEPRJ (EP0250)
23	EPRPM60 EPRPM20	PRTQLED (EP0260) PRTQLEX (EP0270) PRPQUIK (EP0280) PRPMSTR (EP0210)
24	EPRPM60	PRTQLED (EP0260) PRTQLEX (EP0270) PRPQUIK (EP0280)

<u>Test</u>	<u>Procedures</u>	<u>Programs</u>
25	EPRPM70	PRTQLED (EP0260) PRTQLEX (EP0270) PRPTURN (EP0290)
26	EPRTM40 EPRPM30	PRTQLED (EP0260) PRTQLEX (EP0270) PRPDUMP (EP0220)
27	EPRTM30 EPRPM60	PRTLNGP (EP0140) PRTGENR (EP0150) PRTQLED (EP0260) PRTQLEX (EP0270) PRPQUIK (EP0280)
28	EPRTM30 EPRPM30	PRTLNGP (EP0140) PRTGENR (EP0150) PRPDUMP (EP0220)
29	EPRTM30 EPRPM20	PRTLNGP (EP0140) PRTGENR (EP0150) PRPMSTR (EP0210)
30	EPMSM10	PMSEFGN (EP0130) PSREFIN (EP0090) PMSEFIN (EP0100)

<u>Procedure</u>	<u>Tests</u>
EPCET10	17
EPEDT10	8, 18
EPEME10	3, 16
EPEME20	1, 2
EPEMM10	5
EPFMM10	9, 19
EPFMM20	4
EPMSM10	7, 30
EPMST10	20
EPMST20	9, 19
EPRPE10	1, 3
EPRPM10	6, 11
EPRPM20	9, 14, 23, 29
EPRPM30	5, 10, 26, 28
EPRPM50	12, 21, 22
EPRPM60	23, 24
EPRPM70	25
EPRTM10	13
EPRTM20	13
EPRTM30	10, 28, 29
EPRTM40	26
EPSRM30	15

<u>Program</u>	<u>Tests</u>
PCENETR (EP0060)	4, 17
PCVNEEF (EP0020)	1, 2
PEDMSTR (EP0080)	5, 8, 18
PEMEFAC (EP0040)	1, 2, 3, 16
PFMMSTR (EP0120)	4, 5, 9, 19
PMSEFGN (EP0130)	7, 30
PMSEFIN (EP0100)	4, 5, 7, 20, 30
PMSTCON (EP0190)	9, 19
PRPDUMP (EP0220)	5, 10, 26, 28
PRPEFAC (EP0230)	1, 3
PRPENTR (EP0200)	6, 11
PRPEPRJ (EP0250)	12, 21, 22
PRPMSTR (EP0210)	9, 14, 23, 29
PRPQUIK (EP0280)	23, 24
PRPTURN (EP0290)	25
PRTGENR (EP0150)	10, 13, 28, 29
PRTLNGP (EP0140)	10, 13, 28, 29
PRTQLED (EP0260)	23, 24, 25, 26
PRTQLEX (EP0270)	23, 24, 25, 26
PSREFIN (EP0090)	4, 5, 7, 20, 30
PSREFTR (EP0030)	1, 2, 3, 16
PSRGENR (EP0170)	15
PSRINTR (EP0110)	4, 5, 9, 19
PSRLNGP (EP0160)	15

<u>Program</u>	<u>Tests</u>
PSRMFTR (EP0070)	5, 8, 18
PSRNEEF (EP0010)	1, 2
PSRNETR (EP0050)	4, 17

TECHNICAL REPORT DATA (Please read instructions on the reverse before completing)		
1. REPORT NO. EPA 450/4-80-019	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE Emissions Inventory System/Point Source (EIS/PS) Test Run Series Documentation	5. REPORT DATE October 1980	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) The Research Triangle Institute Operations Analysis Division, Research Triangle Park, NC	8. PERFORMING ORGANIZATION REPORT NO. 27709	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Office of Air Quality Planning and Standards Monitoring and Data Analysis Division Research Triangle Park, North Carolina 27711	10. PROGRAM ELEMENT NO.	11. CONTRACT/GRANT NO. 68-02-3011
12. SPONSORING AGENCY NAME AND ADDRESS U. S. Environmental Protection Agency Office of Air, Noise, and Radiation Office of Air Quality Planning and Standards Research Triangle Park, North Carolina 27711	13. TYPE OF REPORT AND PERIOD COVERED	14. SPONSORING AGENCY CODE
15. SUPPLEMENTARY NOTES		
16. ABSTRACT This manual documents the EIS/PS test run series and replaces the Air Pollution Training Institute Manual 475, Comprehensive Data Handling System, Volume 1, Emission Inventory Subsystem/Permits and Registration (EIS/P&R). The test run series is divided into two major areas: basic test runs and ad hoc test runs. The basic test runs exercise each program in EIS/PS at least once and provide the user with a means of determining whether or not his installation of EIS/PS has been successful. The ad hoc test runs further exercise the capabilities of the EIS/PS programs. The ad hoc test runs also provide the user with examples of how various combinations of EIS/PS programs may be used to generate certain reports or to accomplish special tasks. Any programs added to the original EIS/PS system are exercised by ad hoc test runs. The EIS/PS User's Guide should be used as a reference in conjunction with this manual. Appendix A of this manual provides a cross-reference of tests, procedures, and programs.		
17. KEY WORDS AND DOCUMENT ANALYSIS		
a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Computer Programs Computer Software Data Processing Air Pollution Data Handling Computer System Programs Data Base Management System Distributed Processing	CDHS EIS/PS NEDS Atmospheric Pollution System Installation System Testing	
18. DISTRIBUTION STATEMENT Unlimited	19. SECURITY CLASS (This Report) Unclassified	21. NO. OF PAGES 365
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