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PTI/APWA Equipment Management Information System, Program Documentation, Billing Module

Public Technology, Inc, Washington, D C

Prepared for

Department of Housing and Urban Development, Washington, D C Assistant Secretary for Policy Development and Research

1977

# PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

PROGRAM DOCUMENTATION

BILLING MODULE

U.S. Department of Housing and Urban Development Office of Policy Development and Research

PUBLIC TECHNOLOGY, INC., WASHINGTON, D.C. AND SAN JOSE, CA.

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# PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

#### COMPUTER PROGRAM DOCUMENTATION

#### BILLING MODULE

U. S. Department of Housing and Urban Development Office of Policy Development and Research Washington, D.C.

Prepared Under Contract #H-2106R

by

Public Technology, Inc. 1140 Connecticut Avenue, N.W. Washington, D.C. 20036

1977

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## BILLING MODULE

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SECTION I

INTRODUCTION

#### INTRODUCTION

This program documentation is one volume of the technical program documentation of the PTI/APWA Equipment Management System. There are five volumes in all. Additionally, the system is supported by Testing Instructions, an Implementation Handbook, Forms Completion Instructions, User's Guide, and Chief Executive's Report.

This program documentation is intended to help in maintaining the programs on the local government computer system. Before making the computer programs operational, the data processing staff should consult the Implementation Handbook and Computer Program Testing Instructions for relevant information.

Contact PTI if questions arise which are not addressed in this program documentation.

SECTION 1.1

Module Introductory Narrative

Billing

#### BILLING MODULE

The billing module produces reports in support of interdepartmental billings for equipment.

Reports are produced in support of three types of billing:

- billings for equipment based on mileage or hourage charge. This rate may vary for a particular piece of equipment depending on the usage;
- billings for equipment based on a flat rate per month, day, or hour;
- billings for equipment based on costs incurred through repairs and fueling (direct charges).

A combination of these billing types may be involved for a piece of equipment. The appropriate billing type for a piece of equipment is specified on the equipment inventory input form.

Equipment not normally billed for repairs may be billed for any particular repair by so indicating in the appropriate place on that repair order.

Billing reports are produced once a month in fund and organizational sequence. Pool equipment not permanently assigned to an organization will be billed to those organizations which have used that equipment during a given month.

Equipment billed on a usage basis (miles or hours) require a monthly statement of the end of month mileage (or hourage). Before the end of the month, the system produces a listing in organization sequence of all equipment assigned to that organization; last month's end of month mileage, or hourage, is supplied on this listing.

SECTION 2.1

JOB STREAM OVERVIEW
BILLING

#### COMPONENT JOB STREAMS

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

COMPONENT: BILLING

JOB STREAM INDENTIFICATION RUN FREQUENCY

Billing Edit/Update-EMBJ01 Daily

Billing Report and Meter Reading

Report - EMBJ\$2 Monthly

SECTION 2.2.1.

Daily Job

Billing

# JOB STREAM PROGRAMS AND FILES

SYSTEM NAME:	PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NA	ME: BILLING
JOB NAME: BILL	LING EDIT/UPDATE - EMBJØI
RUN FREQUENCY	T: Daily

JOB STREAM PROGRAMS	COMPILED SIZE	FILES ACCESSED BY THIS PROGRAM
EMBUØl Utility Sort	5øk	EMBFØl EMBFØ2
EMBUØ5 - Utility Sort	5Øk	EMGFØ5 EMBFlØ
EMBPØl - Billing Edit/Update	54 <u>!:</u>	EMBFØ2 EMGFØ7 EMBFØ3 EMBFØ4
EMBUØ2 - Utility Sort	5øk	EMBFØ4 EMBFØ5

SECTION 2.2.1.1

Daily Job Flow

Billing

# PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

The state of the s

æb.	JOB FLOW	PAGE 1 of 1
( )	MODULE NAME Billing	JOB FLOW NUMBER EMBJØ1 '
	JOB FLOW NAME Billing Edit/Update	FREQUENCY Daily
	JOB FLOW	NARRATIVE
	EMBDSI 5 MB K \$3 INPUT KEYPUNEN 2 EMGFOS	1. Pool tickets and Rental tickets
	FORM VERTEY 2 4-700	2. Are keypunched and verified
	masted .	3. Card Input is sent to data Processing
	CAEDS EMBLOY  3 24  3 350-51  TABE TO	4. Card to disk sort is run on input transactions
	QARD EMBUGAL  Seg Cols  DICK SORT  3 18-19	5. Sorted input transaction are input to the Billing Edit Update Program
	Embero Souted (5)	6. Sorted Equipment Inventory Master File is input to the edit/
<b>4</b> .5	blocked of TRANSPORTIONS MASTER	update.
is a	EMBFIO 4×700	7. Billing Edit/Update program is run and produces the following:
	Elling EMBPA1  EDITO  WEDATE	8. Billing transactions (EMBFØ4)
****	(10) Treschore.	to be used as input to the monthly billing run are sorted to tape
	EMERGY (BILING Report Report 114)	9. An edit error report to be used in making corrections
	blocked 19 Fm Beda	10. And an updated Equipment Inventory Master File
	190 chars D FAPE DOSE FMCUOZ  Grant Francisco  Francis	11. Month-to-Date billing transactions are input to the sort
	(Em6f45) 5087 2-7 4 15-19	12. Sort of Month-to-Date billing transactions and current transactions
		13. New Month-to-Date billing transaction file
	blocked 14	
		ł .

2.2.1.1-1

SECTION 2.2.2

Monthly Job

Billing

## JOB STREAM PROGRAMS AND FILES

system name: <u>pti/apwa eq</u> u	UIPMENT MÁNAGEMENT	INFORMATION SYSTEM
COMPONENT NAME: BILLIN	NG	
JOB NAME: Billing Report and M	Meter Reading - EMBJØ2	
RUN FREQUENCY: Monthly		
JOB STREAM PROGRAMS	COMPILED SIZE	FILES ACCESSED BY THIS PROGRAM
EMBU03 - UTILITY SORT	5øk	EMRFØ6 EMBFØ7
FMBU04 - UTILITY SORT	5øk	EMBFØ3 EMBFØ8
EMBPØ2 - Billing Report	4øk	EMBFØ8 EMBFØ7 EMBFØ5 EMGFØ3 EMBFØ6
EMBPØ3 - Meter Report	3øk	EMGFØ3 EMBFØ8 EMBFØ9
	2.2.2-1	

Section 2.2.2.1

Monthly Job Flow

Billing

#### PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

of PAGE: JOB FLOW BILLING JOB FLOW NUMBER EMBJØ2 MODULE NAME Monthly Departmental Billing/Monthly Meter Report FREQUENCY JOB FLOW NAME JOB FLOW NARRATIVE EMRFOL Emef43 Lou1 masqu 1. Sorted Billing Transactions are input EmBu\$3 to Billing Program Sog. Cols TAPL TO TAPE TO 16-2 15.3 Month-to-date repair file is input to DISK DISK 35/ 35/ SORT SORT 3 7-11 . 13 Tape to disk sort is run 3. 346 ሬ አ 4. Sorted repairs are input to Billing Program EORTED ( 5m6 F48 E MBF47 SURTED EQUIP AND. 5. Equipment Inventory Master File is MICHTH . TO DHITE masax input to sort 6. Tape to disk sort is run Sorted Equipment Inventory Master File is input to Billing Program and Monthly Meter Report Program (i) CONTROL 8. Control Card is input to Billing pro-CARD DEPARTMENTA L BILLING gram EmB+Ob 9. APWA/Organization Table is input Emerda. (9) 40000 to Billing Program and Monthly Meter report ÇILE 24×84 Rool / Rental/ 10. Departmental Billing program is run Direct Bilk and produces 11. The Pool/Rental/and Direct Charge EINC ED 2 Bills 12. Control card is input to Monthly Meter Report 12) FMGP43 13. Monthly Meter Report Program is run monthly meter and produces. Emer49 14. The Monthly Meter Report Roport CONTROL CARD month merco EMEKN

2.2.2.1-1

SECTION 3.1.1

Program Narrative

Billing Edit/Update

#### BILLING EDIT/UPDATE

#### PROGRAM NARRATIVE

This program reads and edits the daily pool tickets and monthly rental. An edit report is produced showing all transactions with any errors indicated. Valid transactions update the inventory master file with billing amounts, while invalid transactions are only listed without any update action taking place. The program also produces a billing transaction file for all valid record; this file is used as input to the departmental billing program (EMBPØ2).

SECTION 3.1.2

Program Specifications

Billing Edit/Update

# BILLING EDIT/UPDATE PROGRAM SPECIFICATIONS

#### Purpose:

This program edits the daily and/or monthly rental tickets and updates the following fields of the Inventory Master record with the valid transactions:

- 1) Master Current Meter Read
- 2) Master Meter Read Last Mo.
- 3) Master Rental Charge CM
- 4) Master Rental Charge YTD
- 5) Master Rental Charge LTD

#### Program Input:

- 1) Old Inventory Master (EMBFlØ)
  - a) Sort Sequence: Ascending
    - 1. Equipment Number
    - 2. Status Code
    - 3. Date of Last Status Change
  - b) Blocking Factor: 4 records per block
  - c) Record Size: 700 characters
- 2) Billing Transactions (EMBFØ2)
  - a) Sort Sequence: Ascending
    - 1. Equipment Number
    - 2. Date Out
    - 3. Date In
  - b) Record Size: 80 characters, blocked by 10

#### Program Output:

- 1) Updated Inventory Master (EMBFØ3)
  - a) Sort Sequence: Ascending
    - 1. Equipment Number
    - 2. Date of Last Status Change
  - b) Blocking Factor: 4 records per block
  - c) Record Size: 700 characters
- 2) Billing Transactions (Appended) (EMBFØ4)
  - a) Sort Sequence: Ascending
    - l. Equipment Number
      - 2. Date Out
      - 3. Date In
  - b) Blocking Factor: 10 records per block
  - c) Record Size: 190 characters
- 3) Transaction Error Listing (EMBRØI)

#### Processing Concepts:

l p

All processing is sequential. Each Transaction is validated and then matched against the Inventory Master File until the following conditions are satisfied:

- 1) Transaction Equipment # equals Inventory Master Equipment #
- 2) Transaction Date In is less than or equal to Last Status Change Date of Master
- 3) Transaction Organization Number equals Inventory Master Organization Number ('M' type transactions only)

Since multiple transactions may use the same inventory master record billing rate schedule, individual rental ticket charges are accumulated and then applied as a single master update entry.

Because the renting organization of the pool vehicle master will differ from the user organization specified on the pool ticket ('P' type transaction), it is necessary to pull off all billing and vehic 2 description information from the inventory master and append it to the billing transaction. This data will be used by the departmental billing program (EMBPØ2) when producing itemized bills by organization.

#### Program Specifications:

Program processing fulls into the following four (4) categories:

- 1) Individual and combined field validation
- 2) Calculation of Rental Charges
- 3) Creation of an appended billing transaction file
- 4) Updating of the Inventory Master File
- 1) Field Editing:

Paragraphs X2Ø4 thru X238 perform the various data element edit; (refer to the sheet entitled "Individual Field Edits").

2) Calculation of Rental Charges:

Performed by paragraphs X24Ø-Flat-Rate-Usage-Calc thru X24Ø-Amt-Calculations.

The "Meter-out" and "Meter-in" transaction fields are used in conjunction with the "use rate" fields of the inventory master billing schedule. The "Date" and "Time" transaction fields are associated with the inventory master "flat rate" field. The following example serves to illustrate the derivation of rental charges:

#### EXAMPLE OF EQUIPMENT RENTAL CHARGE CALCULATION

Inventory Master Billing Rate Schedule:

Flat Rate \$125/month
Basic Use-Rate 10¢/mile
Use-Rate-B 8c/mile
Use-Rate-C 5¢/mile

Use-Rate-B-Units over 2,000 miles
Use-Rate-C-Units over 3,000 miles

Billing Transaction Data:

 Date-Out
 01/01/75

 Date-In
 01/31/75

 Odometer-Out
 20,000 miles

 Odometer-In
 26,000 miles

 Time-Out
 20,000 miles

Time-Out
Time-In

Not Applicable

Flat Rate Usage = Date-In minus Date-Out = 30 days = 1 month

\$125/month x 1 month = Flat Rate Amount - \$125

Odometer-In minus Odometer-Out equals 6,000 miles (usage)

3,000 miles @ 5¢/mile = Rate-C-Amount of 150
1,000 miles @ 8¢/mile = Rate-B-Amount of 80
2,000 miles @ 10¢/mile = Basic Use Amount of 200
6,000 miles Total Rental Charge \$555

- 3) Creation of a Billing Transaction File
  Paragraph X24Ø-Build-Billing-Record creates an
  appended billing Transaction record. The newly
  calculated rental amounts are added to this record
  before issuing a write command.
- 4) Updating of the Inventory Master
  The two paragraphs prefixed with X2Ø9 handle the updating of the rental amount fields of the Inventory Master.

海货

#### Individual Field Edits

( )	Field No.	Edit	
	1	Must contain	na'P' or 'M'
	2	Must be pre	esent
	3	Numeric	
	4	MMDDYY -	MM - less than or equal to 12
			DD - less than or equal to 31
			YY - less than or equal to current year
	5	ннмм	HH - less than or equal to 12 (24)
			MM - less than or equal to 59
	6	x	'A' or 'P' (AM or PM)
	7	MMDDYY	Same as 4
	8	нннн	Same as 5
	9	X .	Same as 6
	10	Numeric	
	11	Numeric	

#### NOTES:

- 1) Date-out must be less than or equal to the Date-in.
- 2) Closing odometer reading (Meter in) must be greater than the opening odometer reading (Meter out).
- 3) Combination of Date-in/Time-in must be greater than Date-out/time-out.

SECTION 3.1.3

Definitions

Billing Edit

	Switches, Counters Data Elements	Use	
<b>**</b>	Meter-Bypass-Ind.	I/O Control indicator for the inventory master file. Records will be read only when the indicator has a value of zero (off).	'ø'=of <b>£</b> '1'=on
	WS-Error-Ind.	When ''on'', a setting of 'l', this indicator prevents an invalid transaction from being matched against the inventory master file.	'ø'=of <b>f</b> '1'=on
3	WS-Comb-Date-Error-Ind.	When set to '1' (on) it allows for the repetition of the error field print routine. For example, this will occur when the transaction Date-out is greater than the Date-in.	'Ø'=off
	Org-No-Match-Ind.	When set to '1' (on) it indicates that an 'M' type transaction has a matching equipment number on the inventory master but the organization codes differ.	'Ø'=off '1'=on
	WS-Out-Billing-Ind.	I/O control indictor for the appended billing transaction file. When set to a value of '1' (on) this file is omitted.	'ø'=off '1'=on

SECTION 3.1.4
Paragraph Explanations
Billing Edit

# EMBPØ1

## Paragraph Explanations

Paragraph -ID	Functions
XØØØ	Open Files
X2ØØ	Read Transaction
X2Ø2	List Transaction
X2Ø4 through X238	Field Edit Routines
X2Ø6	Read Master File
X2Ø8	Comparison of File Criteria
X2Ø9	Update Master File
X21Ø	Transaction Organization Error Routine
X212	Transaction Equipment # Error Routine
X24Ø through X241	Create Rental Billing File
X25∅ through X256	Error Print Routines
X4ØØ through X43Ø	Page Heading Routines
X900 through X9Ø6	Print Report Line
X3Ø4	Print Report Totals
X3Ø5	Close Files

SECTION 3.1.5

Report Layout

Billing Edit

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SECTION 3.2.1

Program Narrative

Departmental Billing

Program No: EMBP#2

#### DEPARTMENT BILLING

#### PROGRAM NARRATIVE

This program reads the sorted equipment inventory master file, month-date repair file, and billing transaction file and produces monthly invoices for each vehicle. These invoices are produced for all rental, pool, and direct charge vehicles.

The bills are produced in organization sequence with totals shown for each organization.

SECTION 3.2.2

Program Specifications

Departmental Billing

#### DEPARTMENTAL BILLING - DIRECT AND RENTAL CHARGES

#### Purpose:

This program generates itemized bills for each organization of all direct and/or rental charges incurred by vehicles.

## Program Input:

- 1. Inventory Master
  - a) Sort Sequence: Ascending
    - 1. Organization Code
    - 2. Equipment Number
  - b) Blocking Factor: 4 records per block
  - c) Record Size: 700 characters
- 2. Month-to-Date (MTD) Repair Order File
  - a) Sort Sequence: Ascending
    - 1. Organization Code
      - 2. Equipment Number
      - 3. Repair Order Number
      - 4. Record Type
      - 5. Identification Code
  - b) Blocking Factor: 10 records per block
  - c) Record Size: 90 characters
- 3. Billing Transaction File (appended)
  - a) Sort Sequence: Ascending
    - 1. Record Type
    - 2. Organization Code
    - 3. Equipment Number
    - 4. Date-Out
    - 5. Date-In
  - b) Blocking Factor; 10 records per block
  - c) Record Size: 190 characters

- 4. Organization/APWA/Facility Name File
  - a) Sort Sequence: Ascending
    - 1. Record Type
    - Organization-Facility-APWA Codes (Positions 3 thru 11)
  - b) Record Size: 80 characters, unblocked.
- Date Card
  - a) Program-ID: Columns 1-6 Value 'EMBPØ 2'
  - b) Report Date: Columns 8-15 Value 'MM/DD/YY'

#### Program Output:

1. Departmental Billing Report

#### Detail Narrative:

All processing is sequential. Both the Organization Name File and the report date, as submitted on the date card, are stored in memory for use in page headings. The date card is required whereas the Organization Name File is optional. Except for the appearance of all organizational pool vehicle ('P' type billing transactions) rental charges at the end of the report, direct and monthly ('M' type billing transactions) rental charges will be interspersed. With minor program modifications separate reports can be generated.

Program logic is such that the appended Billing Transaction File is optional. If all billing is to be direct charge, this file should be omitted. In the situation where there are no transactions for a rental vehicle, this program will generate an estimated bill using the master record rate schedule along with the following:

- 1. Master-Meter-Units-OP-LM
- 2. Master-Normal-Duty-Hrs-Mon

The "normal duty hours per month" field of the master will be converted to days (8 hours = 1 day) for a daily flat rate rental. The method of calculating the rental charge is illustrated in the documentation for the Billing Transaction Edit and Update (EMBPØ1).

The Month-to-Date (MTD) Repair Order File contains labor, parts, and commercial costs repair information. For direct charge inventory records all repairs on a vehicle while assigned to a specific organization will be reflected. Rental vehicle repairs will be shown if either of the following conditions exist:

- 1. "Bill-User-Repair-Indicator" of the MTD Repair Order Header record is set to 'Y'.
- 2. "Bill-Accident-Repair-Indicator" of the inventory master has a value of 'Y' and the "Repair-Reason-Indicator" of the MTD Repair Order Header record has a value of 'B'.

In addition to repair and rental charges, fuel, oil, and miscellaneous costs from the inventory master are included in the total operating expense for a vehicle.

All costs are summarized by vehicle, fund, organization and report. NOTE: The specifications did not call for the itemizing of insurance and depreciation expenses.

SECTION 3.2.3

Definitions

Departmental Billing

J		EMDP 92
Switches, Counters, Data Elements	Use	
Data Elements		
Out-of-Seq-Error-Ind.	When this indicator is set to '1' (on) a sequencing error has occurred in the organization name file and the job is terminated.	Space=off '1'=on
Date-Err-Ind.	If this indicator is off (value of space) a date card has not been processed and the job is aborted.	Space=off '1'=on
Master-in-Work-Area-Ind.	It initially has a value of space so as to place the first inventory master record in the work area.	Space=off '1'=on
EOF-Ind.	When 'turned on' (value of '1') it indicates end of file on the inventory master.	Space=off
 Repair-Order-File-Bypass Ind.	When ''turned on'' (value of '1') this indicator prevents any reading from the Month-to-Date (MTD) Repair Order File.	Space=off  '1' = on
	(M10) Repair Order File.	· I· - OII
Vehicle-Break-Ind.	When this indicator is set to '1' the vehicle cost total print	Space=off
	routine is activated.	†1'=on
Fund-NoBreak-Ind.	When set to '1' this indicator activates the Fund Number print	Space=off
	routine.	†1 *= on

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$\mathbf{E}$	VI	n	P	n,	4

Switches,	Counters,			
-----------	-----------	--	--	--

	Data Elements		
4 2	Organization-Break-Ind.	When set to '1' this indicator activates the print routine giving organization totals.	Space=off
	Repair-Reason-Ind.	This indicator is the stored contents of the field entitled "MTD-Head-Reason-In" in the MTD Repair Order header record.	Values 'A' Thru 'U'
	Bill-User-Repair-Ind.	This indicator is the stored contents of the field entitled "MTD-Head-Bill-User" of the MTD Repair Order header record.	Space=No 'Y'=Yes
, des	Pool-Rental-Ind.	When ''turned on'' (Value of '1') this indicator prevents the reading of records from the appended billing transaction file.	Space=off '1'=on
	Records-Match-Ind.	When this indicator is set to a value of '1' the inventory mas- ter record criteria matches that of the appended billing transaction file.	Space=off
	Estimate-Ind.	When this indicator is set to a value of '1' an estimated rental charge is calculated for a vehicle with no associated billing transactions using last month's mileage data.	'Ø'=off

Use

SECTION 3.2.4

Paragraph Explanations

Departmental Billing

# Paragraph Explanations

Paragraph - ID	Function
xøøø	Program Initialization
X2ØØ through X2Ø6	Processing of Card File
X21Ø	Processing of Master File
X215 - Read	Reading of Rental Ticket File
X215 - Master	Generation of a Bill from Rental Tickets
X215 - Generate through X215 - Amt.	Generation of an Estimated Bill Based on Last Month's Usage
X215 - Repairs	Generation of R/O Column Headings
X22Ø through X235	Processing of MTD R/O File
X236	Printing of Vehicle Totals
X237	Printing of Fund Totals
X238	Printing of Organization Totals
X3ØØ - Report	Printing of Report Totals
X3ØØ – Page through X3ØØ Exit	rage Heading Routine
X395 - Rental through $X315$ - Rental	Processing of Rental Tickets
X35Ø - X370	Processing of Pool Vehicle Rental Tickets
X999	Close Files

SECTION 3.2.5

Report Layout

Departmental Billing

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SECTION 3.3.1

Program Narrative

Meter Reading Report

4 to

Program No: EMBPØ3



# Monthly Meter Report Program Narrative

This program produces a listing of equipment within organization for use in reporting meter readings for billing. A control card allows the selection of rental equipment, direct charge equipment, or both.

SECTION 3.3.2

PROGRAM SPECIFICATIONS

METER READING REPORT

w pr

#### MONTHLY METER REPORT

#### Program Specifications

- I. Purpose: To produce a listing of equipment within organization sequence to provide meter readings to be used for billing purposes.
- II. Inputs:
- 1. Equipment Inventory Master File
- 2. APWA/Organization Table
- 3. Control Card
- III. Outputs:
- 1. Monthly Meter Report
- IV. Processing

Step 1 - Read the control card and check for the following:

cols.	contents
1-6	EMBPØ3
7	space
8	"R" - Rental "D" - Direct Charge
	"B" or Both

- Step 2 If the control card is missing or invalid produce an error message
- Step 3- Read the APWA/Organization table and build a table in storage for use by the heading routine.
- Step 4 Set up Current Date and Beginning Date for Meter report.

  Beginning Date is Current Month and Year with the Day
  set to "\$1"
- Step 5 Read the Equipment Inventory Master File
- Step 6 Check that the Status code is active and the vehicle is a metered vehicle. If not active, or unmetered, go and get another master record.

Step 7 - Check the Billing Basis on the Master against the value in the control card.

Control card waster File Records to be used

R Rental vehicles only D Direct-charge vehicles only B All vehicles

- Step 8 Perform a break whenever the organization on the master file changes.
- Step 9 Produce one line of data for each vehicle selected. (See Report Layout for data)
- Step 10 Go to step 5 and continue processing until the end of the Master File.

SECTION 3.3.3

DEFINITIONS

METER READING REPORT

#### Monthly Meter Report

Counters. Switches
Data Elements

Use

CNTRL-CRD

Control Card work area

TABLE-CRDS

Organization table input area

TABLE-ORGN

Organization table area

ORN-CNT

Counter for organization table

TOP-OF-PAGE

Line count to be used for top-of-page

routine

**HOLD-ORGN** 

Used to check for page break on

organization change

ORGN-FIND-SW

Used to indicate organization

name was found in the table

Value ∅ - Name not found Value 1 - Name found

TAB-SUB

Subscript used for searching the

organization table

SECTION 3.3.4

PARAGRAPH EXPLANATIONS

METER READING REPORT

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# APPENDIX A

FILE DESCRIPTIONS AND RECORD LAYOUTS

# Monthly Meter Report

Paragraph Numbers	Paragraph Explanations
100	Initialization of input
110	Control Card check
120	Organization table routine
200	Initialization of Dates
210	Read Equipment Inventory Master file and perform check of use status code
220	Process the master record
399	End of job routine
600-610	Control card error routines
620	Organization table error routines
710-711	Organization table search routines
900	Equipment Inventory input routines
910	Heading Routines
911-912	End of page routines
920	Printer Write routines

SECTION 3.3.5

REPORT LAYOUT

METER READING REPORT

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# FILE DESCRIPTION FORM

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NAME: Billing
FILE NAME: Inventory Master (EMBFlø, EMGFø5)
VOLUME DEVICE: Tape Drive
FILE ORGANIZATION: Sequential
FILE NUMBER OF VOLUME (FIRST SECOND, ETC): N/A
RECORD FORMAT: Fixed Length
RECORD LENGTH: 700
RECORDS PER BLOCK: 4
FILE RETENTION:
a. TEMPORARY X
b. PERMANENT RETENTION PERIOD:
RECORD RELATIVE KEY POSITION: N/A
KEY LENGTH: N/A
PHYSICAL BLOCKSIZE: 2800
MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 1 record per vehicle
CREATING PROGRAM: EMGPØ6. (EMGFØ5)
EMBUØ5 (EMBFlØ) REFERENCING PROGRAM(S):
PROGRAM ACCESS METHOD
EMBP#1 Sequential

# FILE DESCRIPTION FORM

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NAME: Billing
FILE NAME: Inventory Master (EMBFØ3)
VOLUME DEVICE: Tape Drive
FILE ORGANIZATION: Sequential
FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A
RECORD FORMAT: Fixed Length
RECORD LENGTH: 700
RECORDS PER BLOCK: 4
FILE RETENTION:
a. TEMPORARY
b. PERMANENT X RETENTION PERIOD: 6 weeks
RECORD RELATIVE KEY POSITION: N/A
KEY LENGTH: N/A
PHYSICAL BLOCKSIZE: 28ØØ
MAYIMIM NUMBER OF LOCICAL RECORDS ON FILE. 1 record per vehicle

MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE:

CREATING PROGRAM: EMBPØ1

REFERENCING PROGRAM(S):

PROGRAM

ACCESS METHOD

EMBUØ4

Sequential

FILE DESCRIPTION FORM
SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NAME: Billing
FILE NAME: Inventory Master (EMBFØS)
VOLUME DEVICE: Disk Drive
FILE ORGANIZATION: Sequential
FILE NUMBER OF VOLUME(FIRST, SECOND, ETC.): N/A
RECORD FORMAT: Fixed Length
RECORD LENGTH: 700
RECORDS PER BLOCK: 4
FILE RETENTION:
a. TEMPORARY X
b. PERMANENT RETENTION PERIOD:
RECORD RELATIVE KEY POSITION: N/A
KEY LENGTH: N/A
PHYSICAL BLOCKSIZE: 2800
MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 1 record per vehicle
CREATING PROGRAM: EMBUØ4
REFERENCING PROGRAM(S):

PROGRAM

ACCESS METHOD

EMBPØ2

Sequential

EMBPØ3

FILE NAME: Equipment Inventory Master

RECORD LENGTH: 700

FILE NUMBER: FMGFØ5, EMBFØ3, EMBFØ8
EMBFIØ

BLOCKING FACTOR: 4

FIELD NO.	DATA ELEMENT NAME	POSITIONS	LENGTH	PICTURE OR REMARKS
	Equipment Number	1.0	6	X(6)
-		1-6	<del></del>	
2	APWA Code	7-14	8	Refer to APWA Manual
3	Organization Code	l5-2ø	6	X(6) ·
4	Use Status Code	21	1	"blank, 1, 2, 3"
5	Date Received	22-27 .	6	MMDDYY
6	Estimated Life	28-30	3	S999V
7	Estimated Life Code	. 31	1	"1-3"
8	Salvage Value	32-36	5	\$99999V
9	Purchase Order Amount	37-44	8	S9(6)V99
1ø	Unit Depreciation Amount	45-5Ø	6	\$999V999
11	PM Interval-Months	5 <b>1</b> -52	2	S99V
12	PM Interval-Meter Units	53-57	5	S9(5)V
13	PM Sequence	58-65	8	X(8)
14	PM Pointer·	66	1	"1-8"
15	Assigned PM Location	67-7ø	4	X(4)
16	Meter Unit	71	1	"H", "M" or "X"
17	Bill Accident Repairs	72	1	"Y" or "N"
18	Billing Basis	73	1	"R" or "D"
19	Insurance Schedule	74-76	3	X(3)
20	Normal Duty Hours Per Month	77-79	3	\$999V ·
21	Seasonal Usage	80	1	X
22	Flat Rate	81-86	6	\$9999V99
23	Flat Rate Unit Code	87	1	"M", "D" or "C"

FILE NAME: Equipment Inventory Master

RECORD LENGTH: 700

FILE NUMBER: EMGFØ5, EMBFØ3, EMBFØ8
EMBFIØ

BLOCKING FACTOR: 4

Field Number	DATA ELEMENT NAME	Position	Length	Picture or Remarks
`24	Basic Use Rate	88-93	6	S999V999
25	Use Rate B	94-99	6	S999V999
26	Use Rate B Units	100-104	5	S9 (5) V
27	Use Rate C	1ø5-11ø	6	S999V999
28	Use Rate C Units	111-115	5	S9 (5) V
29	Old Equipment Number	116-121	6	X(6)
. 30	Date Released	122-127	6	MMDDYY
31	Old Property Control Number	128-135	8	X(8)
32	GVWR-Pounds	136-141	6	S9 (6) V
33	Improvement Added-Current Month	142-148	7	S9999V99
34	Improvement Added-Life to Date	149-156	8	S99999V99
35	Fuel Tank Capacity	157-159	3	S999V
. 36	Fuel Type	16Ø	1	х .
37	Description	161-18ø	20	X(2Ø)
. 38	Fund Number	181-192	12	X(12)
′ 39	Inspection Frequency-Months	193-194	2	S99V
40	Assigned Service Location	195-198	4	X(4)
41	Highway Code	199	1	"1-3"
42	Chassis Mfr. Code	200-203	4	X(4)
43	Chassis Model Number	204-210	7	X(7)
44	Chassis Serial Number	211-23ø	20	X(2Ø)
45	Chassis Model/Year	231-232 A-5	2	Last two digits of year

FILE NAME: Equipment Inventory Master RECORD LENGTH: 700

FILE NUMBER: EMGFØ5, EMBFØ3, EMBFØ8, EMBFIØ BLOCKING FACTOR: 4

NO.	DATA ELEMENT NAME	POSITIONS	LENGTH	PICTURE OR REMARKS
46	Title Number	233-241	9	X(9)
47	Property Control Number	242-249	8	X(8)
48	Purchase Order Number	25ø-257	8	X(8)
49	License Tag Number	258-266	9	X(9)
5ø	Domicile Code	267-27ø	4	X(4)
51	Body Mfr. Code	271-274	٠ 4	X(4)
52	Body Model Number	275-282	8	X(8)
53	Body Serial Number	383-3Ø2	20	X(20)
54	Body Model Year	∴ 3ø3-3ø4	2	last two digits of year
55	Current Meter Reading	3ø5-311	7	S999999V9
56	Meter Reading Last Month	312-318	7	s999999v9 ·
57	Meter Failure Flag	319	1	"Ø" or "1"
58	Meter Reading at Failure	32Ø-326	7	S999999V9
59	Meter Units Operated Current Month	327-332	. 6	S99999V9
6Ø	Meter Units Operated Last Month	333-338	6	S99999V9
51	Meter Units Operated-Life to Date	339-345	7	S999999V9
62	Date Last Status Change	346-351	6	MMDDYY
63	Downtime Hours-CM	<b>352-3</b> 55	4	S999V9
64	Downtime Hours-LTD	356-361	6	S99999V9
55	Insurance Cost-CM	362-366	5	S999V99
56	Insurance Cost-YTD	367-372	6	S9999V99
67	Insurance Cost-LTD	373-379	7	\$99999v99

FILE NAME: Equipment Inventory Master

RECORD LENGTH: 700

FILE NUMBER: EMGFØ5, EMBFØ3, EMBFØ8, EMBFIØ

BLOCKING FACTOR: 4

FIELD NO.	DATA ELEMENT NAME	POSITIONS	LENGTH	PICTURE OR REMARKS
68	Current Book Value	38Ø-387	8	\$999999v99
69	Depreciation-CM	388-393	6	S9(4)V99
7,Ø	Depreciation-YTD	394-4øø	7	S9(5)V99
71	Depreciation-LTD	4 <b>ø1-</b> 4 <b>ø</b> 8	8	S9(6)V99
72	Fuel Consumption (Gal.)-CM	. 409-413	5	S9999V9
73	Fuel Consumption (Gal.)-YTD	414-419	6	S9(5)V9
74.	Fuel Consumption (Gal.)-LTD	42Ø-426	7	S9(6)V9
75 ·	Fuel Cost - CM	.427-432	6	S9999V99
76	Fuel Cost - YTD	433-44ø	8	S9(6)V99
77	Fuel Cost - LTD	441-448	8	S9(6)V99
78	Oil Consumption (Qts.)-CM	449-451	3.	S99V9
79	Oil Consumption (Qts.)-YTD	452-455	4	S999V9
8,0	Oil Consumption (Qts.)-LTD	456-46Ø	5	s9999v9
81	Oil Cost - CM	461-465	5	s999V99
82	Oil Cost - YTD	466-472	7	S9(5)V99
83	Oil Cost - LTD	473-479	7	89 (5) V99
84	Misc. Cost - CM	48Ø-484	5	\$999V99
85	Misc. Cost - YTD	485-491	7	S9(5)V99
86	Misc. Cost - LTD	492-498	7	S9(5)V99
87	Number Repair Orders - CM	499-5øø	2	S99V
88	Number Repair Orders - LTD	. 5ø1 <b>-</b> 5ø3	3	S999V
89	Number Road Calls - CM	5ø4-5ø5	2	S99V
90	Number Road Calls - LTD	5Ø6-5Ø8	3	S999V .

FILE NAME: Equipment Inventory Master

RECORD LENGTH: 766

FILE NUMBER: EMGFØ5, EMBFØ3, EMBFØ8, EMBFIØ

BLOCKING FACTOR: 4

FIELD NO:	DATA ELEMENT NAME	POSITIONS	LENGTH	PICTURE OR REMARKS
91	Scheduled Labor Hours - CM	5ø9 <b>-</b> 513	5	S9(4)V9
92	Scheduled Labor Hours - LTD	514-519	6	S9 (5) V9
93	Total Labor Hours - CM	52Ø-524	5	S9(4)V9
94	Total Labor Fours - LTD	525-53ø	6	S9 (5) V9
95	Labor Cost - CM	. 531-537	7	S9(5)V99
96	Labor Cost - LTD	538-545	8	S9(6)V99
97	Parts Cost - CM	546-552	7	S9(5)V99
98	Parts Cost - LTD	553-56ø	. 8	S9(6)V99
99	Commercial Cost - CM	561-567	7	S9(5)V99
100	Commercial Cost - LTD	. 568-575	8	S9(6)V99
101	Accident Cost - CM	576-583	8	S9(6)∀99
1Ø2	Accident Cost - LTD	584-591	8	S9(6)V99
103	Warranty Cost - CM	592-599 .	8	S9(6)V99
104	Warranty Cost - LTD	6øø-6ø7	8	\$9(6)V99
105	Billed Amount - CM	6ø8-614	7	S9(5)V99
105	Billed Amount - YTD	615-621	7	<b>S9(5)V9</b> 9
107	Billed Amount - LTD	622-629	8	S9(6)V99
108	Miles or Hours per Gallon	63Ø-635	6	S999V999
109	Date Last PM	636-641	6	MMDDYY
11ø	Meter Last PM	642-648	7	S9(6)V9
111	Type of Last PM	649	ĺ	"A,B, or C"
112	Date Last State Inspection	65Ø-655	6	MMDDYY
113	Total Repair Cost - YTD	656-663	8්	59(6) <b>V</b> 99
114	Filler	664-799 A-8	37	X(37)

A-8

# FILE DESCRIPTION FORM

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NAME: Billing
FILE NAME: Pool Ticket and Rental Cards (EMBFØ1)
VOLUME DEVICE: Card Reader
FILE ORGANIZATION: Sequential
FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A
RECORD FORMAT: Fixed Length
RECORD LENGTH: 8Ø
RECORDS PER BLOCK: 1
FILE RETENTION:
a. TEMPORARY
b. PERMANENT X RETENTION PERIOD: 6 weeks
RECORD RELATIVE KEY POSITION: N/A
KEY LENGTH: N/A
PHYSICAL BLOCKSIZE: 8Ø
MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 1 card each time pool vehicle
is signed out. 1 card at end of month CREATING PROGRAM: N/A for each rental vehicle.
REFERENCING PROGRAM(S):
PROGRAM ACCESS METHOD
EM BUØl Sequential

# FILE DESCRIPTION FORM

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NAME: Billing
FILE NAME: Billing Transactions (EMBFØ2)
VOLUME DEVICE: Disk Drive
FILE ORGANIZATION: Sequential
FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A
RECORD FORMAT: Fixed Length
RECORD LENGTH: 80
RECORDS PER BLOCK: 10
FILE RETENTION:
a. TEMPORARY X
b. PERMANENT RETENTION PERIOD:
RECORD RELATIVE KEY POSITION: N/A
KEY LENGTH: N/A
PHYSICAL BLOCKSIZE: 8ØØ
MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: Same as EMBFØI
CREATING PROGRAM: EMBUØ1

PROGRAM

REFERENCING PROGRAM(S):

ACCESS METHOD

EMBPØ1

Sequential

Page	1	of	2

#### RECORD LAYOUT

CARD	TYPE	р
COMD	1 1 1 1	L

	TIPEF
FILE NAME: Billing Transaction	RECORD LENGTH: 80
FILE NUMBER: EMBFØ1, EMBFØ2	BLOCKING FACTOR: 10

Field Number	Field Name	Position	Length	Picture or Femarks
i	Card Type	1	1	Χ(Ø1) "P"
2	Equipment Number	2-7	6	X(Ø6)
3	Organization Code	8-13	6	9 (ØG)
4	Date Out	14-19	6	9(Ø6) MMDDYY
5	Time Out	20-23	4	9(Ø4) HHMM
6	Time Out Code	24	1	X(Ø1) "A" or "P"
7	Date In	25-3ø	6	9(Ø6) MMDDYY
. 8	Time In	31-34	4	9(Ø4) HHMM
9	Time In Code	35	1	X(Ø1) "A" or "P"
10	Meter Reading Out	36-42	7	9(Ø6) V9
11	Meter Reading In	43-49	7	9(Ø6) V9
12	Filler	5 <b>0</b> -8Ø	31	X(31) Blank
			·	
:		·		
				·
		A-11		

Page	2	of	2

## RECORD LAYOUT

· 📀		CARD TYPE M	
FILE NAME:	Billing Transaction	RECORD LENGTH:	8ø
FILE NUMBER:	EMBFØ1, EMBFØ2	BLOCKING FACTOR	R: 10

Field Number	Field Name	Position	Length	Picture or Remarks
İ	Card Type	1	1	X(Ø1) ''M''
2	Equipment Number	2-7	6	X(Ø6)
3	Organization Code	8-13	6	9(Ø6)
4	Date Out	14-19	6	9(Ø6) MMDDYY .
5	Filler	20-24	5	X(Ø5) Blank
6	Date In	25~3ø	6	9(Ø6) MMDDYY
7	Filler	31-35	5	X(Ø5) Blank
8	Meter Reading Out	36-42	7	9(ø6)V9
· 9	Meter Reading In	43-49	7	9(ø6)V9
10	Filler	50-80	31	X(31) Blank
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		A-12		
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•	
SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM	
COMPONENT NAME: Billing	
FILE NAME: Billing Transactions - Appended (EMBFØ4)	
VOLUME DEVICE: Disk	
FILE ORGANIZATION: Sequential	
FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A	
RECORD FORMAT: Fixed Length	
RECORD LENGTH: 19Ø	
RECORDS PER BLOCK: 1Ø	
FILE RETENTION:	
a. TEMPORARY X	
b. PERMANENT RETENTION PERIOD:	
RECORD RELATIVE KEY POSITION: N/A	
KEY LENGTH: N/A	
PHYSICAL BLOCKSIZE: 1900	
MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: Same as EMBFØ1	
CREATING PROGRAM: EMBPØ1	
REFERENCING PROGRAM(S):	
PROGRAM ACCESS METHOD	
EMBUØ2 Sequential	

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

COMPONENT NAME: Billing

Billing Transactions - Appended (EMBFØ5) FILE NAME:

VOLUME DEVICE: - Tape

FILE ORGANIZATION: Sequential

FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A

RECORD FORMAT: Fixed Length

RECORD LENGTH: 190

RECORDS PER BLOCK: 10

FILE RETENTION:

TEMPORARY

PERMANENT

RETENTION PERIOD:

until or after next successful

run of EMBUØ2

RECORD RELATIVE KEY POSITION: N/A

KEY LENGTH: N/A

PHYSICAL BLOCKSIZE:

MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: All billing transactions from beginning of current month.

CREATING PROGRAM: EMBUØ2

REFERENCING PROGRAM(S):

**PROGRAM** 

ACCESS METHOD

EMBUØ2

EMBPØ2

Sequential Sequential

## PTI/APWA EQUIPMENT MANAGEMENT SYSTEM

## RECORD LAYOUT

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
FILE NAME:	Billing Transactions - Appended	RI

RECORD LENGTH:

\_\_\_\_\_

FILE NUMBER: EMBFØ4 - EMBFØ5

BLOCKING FACTOR:

Field Number	Field Name	Position	Length	Picture or Remarks
<u>. 1</u>	Card Type	1	1	X(Ø1) ''M''
2	Equipment Number	2-7	6	X(Ø6)
` 3	Organization Code	8-13	6	9(\$6)
4	Date Out	14-19	6	9(Ø6) MMDDYY
5	Time Out	20-24	5	9(ø5) ннмм-Р
6	Date In	25-30	6	9(Ø3) MMDDYY
. 7	Time In	31-35	5	9(05) HHMM-P
8	Meter Reading Out	36-42	7	9(Ø6) V9
9	Meter Reading In	43-49	7	9(Ø6) V9
10	APWA Code	50-57	8	X(ØS)
. 11	User Organization	58-63	6	X(Ø6)
12	Fund Number	64-75	12	X(12)
13	Meter Unit	76	1	X(Øl)
14	Flat Rate	77-82	6	S9(Ø4) V99
15	Flat Rate Unit Code	83	1	X(Ø1)
16	Basic Use Rate	84-89	6	S9(Ø3) V999
17	Use Rate B	90-95	6	S9(Ø3) V999
18	Use Rate B Units	96-100	5	9(Ø5)
19	Use Rate C	101-106	6	S9(Ø3) V999,
20	Use Rate C Units	107-111	5	9(Ø5)
21	Description	112-131	20	X(2Ø)

## PTI/APWA EQUIPMENT MANAGEMENT SYSTEM

FILE NAME: Billing Transactions - Appended	RECORD LENGTH:	190
FILE NUMBER: EMBFØ4 - EMBFØ5	BLOCKING FACTOR:	10

Field Number	Field Name	Position	Length	Picture or Remarks
. 22	Chassis Mfg. Code	132-135	4	X(Ø4)
23	Meter Usage	136-142	7	S9(Ø6) V9
24	Flat Rate Usage	143-148	6	S9(Ø5) V9
25	Flat Rate Amount	149-155	7	S9(Ø5) V99
26	Basic Use Amount	156-162	7	S9(Ø5) V99
27	Rate B Usage	163-167	5	9(Ø5)
28	Rate B Amount	168-174	7	S9 (Ø5) V.\9
29	Rate C Tsage	175-179	5	9(Ø5)
30	Rate C Amount	180-186	7	S9(Ø5) V99
. 31	Filler	187-190	4	X(Ø4)
-				
	i.			
		A-16		

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM COMPONENT NAME: Billing FILE NAME: Month-to-Date Repair (EMR FØ6) VOLUME DEVICE: Tape Drive FILE ORGANIZATION: Sequential FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A RECORD FORMAT: Fixed Length RECORD LENGTH: 90 RECORDS PER BLOCK: 10 FILE RETENTION: a. TEMPORARY 6 weeks RETENTION PERIOD: b. PERMANENT RECORD RELATIVE KEY POSITION: N/A KEY LENGTH: N/A PHYSICAL BLOCKSIZE: 900 MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 20 records for each equipment repair. CREATING PROGRAM: EMRPØ2 REFERENCING PROGRAM(S):

PROGRAM

EMBUØ3

ACCESS METHOD

Sequential

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NAME: Billing
FILE NAME: Month-to-Date Repair (EFIBFØ7)
VOLUME DEVICE: Disk
FILE ORGANIZATION: Sequential
FILE NUMBER OF VOLUME(FIRST, SECOND, ETC.): N/A
RECORD FORMAT: Fixed Length
RECORD LENGTH: 9Ø
RECORDS PER BLOCK: 10
FILE RETENTION:
a. TEMPORARY X
b. PERMANENT RETENTION PERIOD:
RECORD RELATIVE KEY POSITION: N/A
KEY LENGTH: N/A
PHYSICAL BLOCKSIZE: 900
MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 20 records for each equipment
CREATING PROGRAM: EMBUØ3
REFERENCING PROGRAM(S):
DROCRAM ACCESS METHOD

Sequential

EMBPØ2

## PTI/APWA EQUIPMENT MANAGEMENT SYSTEM Page 1 of 2

## RECORD LAYOUT Format 1

FILE NAME: _	Month-to-D	ate Repair	_	RECORD LENGTH:	9ø
EILE MUMBER	. EMBEde	EMB Ed7		BLOCKING EACTOR	2. 10

ield mber	Field Name	Position	Length -	Picture or Remarks	,
1	Equipment Number	1-6	6	X(6)	
2	Repair Order Number	7-12	6	9(6)	
3	Record Type	13	1	9(1) "1"	
4	Identification Code	14-15	2	. X(2) "AA" or "BB"	, ,
5	Organization Code	16-21	6	3(6)	
6	APWA Code	22-29	8	X(8)	
7	Facility Number (Shcr)	3033	4	9(4)	
8	Start Date	34-39	6	9(6) MMDDYY	****
9	Completion Date	40-45	6	9(6) MMDDYY	
10	Work Class	46	1	X(1) "X", "Y", or "2"	
. 11	Meter Reading	47-53	, 7	9(6)V9	
12	Road Call	54	1	X(1) blank or ''Y''	. 444 5
13	Warranty	55	1	X(1) blank or "Y"	
14	Reason Brought In	56	1 .	X(1) "A" thru "U"	<b></b>
15	Downtime Hours	57-60	4	S9(3)V9	
16	Turn Around Code	61	1	9(1) "1" thru "3"	
17	Bill to User	62	1	X(1) blank or "Y"	
18	Filler	63-90	28	X(28)	-
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# PTI/APWA EQUIPMENT MANAGEMENT SYSTEM Page 2 of 2

## RECORD LAYOUT Format ::

FILE NAME:M	onth-to-Date Repair	RECORD LENGTH:	9ø
FILE NUMBER:	EMRFØ6, EMBFØ7	BLOCKING FACTOR:	1ø

Field Number	Field Name	Position	Length	Picture or Remarks
1	Equipment Number	7-6	6	X(6)
2	Repair Order Number	7-12	6	9(6)
3	Record Type	13	1	9(1) "2"
4	Repair Type	14-15	2	9(2)
5	Organization Code	16-21	6	9(6)
6	APWA Code	22-29	8	X(8)
7	Facility Number (Shop)	30-33	4	9(4)
8	Start Date	34-39	6	9(6) MMDDYY
9	Completion Date	40-45	6	9(6) MMDDYY
10	Labor Costs	46-52	7	S9(5)V99
11	Parts Cost	53-59	7	S9(5)V99
12	Commercial Cost	60-66	7	S9(5)V99
13	Labor Hours	67-70	4	S9(3)V9
14	Work Class	71	1	X(1) "X", "Y", or "2"
15	Filler	72-90	19	X(19)
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SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

COMPONENT NAME: Billing

FILE NAME: Control Card (EMBFØ6)

VOLUME DEVICE: Card Reader

FILE ORGANIZATION: Sequential

FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A

RECORD FORMAT: Fixed Length

RECORD LENGTH: 80

RECORDS PER BLOCK: 1

FILE RETENTION:

a. TEMPORARY

b. PERMANEN".

RETENTION PERIOD: until next monthly

run, then change date.

RECORD RELATIVE KEY POSITION:

KEY LENGTH: N/A

PHYSICAL BLOCKSIZE:

MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 1

CREATING PROGRAM: N/A

REFERENCING PROGRAM(S):

PROGRAM

EMBPØ2

ACCESS METHOD

Sequential

PTI/	'APWA	EQUIPMENT	MANAGEMENT	SYSTEM
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Page 1 of 1

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TLE NAME: Control Card for EMBPØ2	RECORD LENGTH:	8Ø
TLE NUMBER: EMBFØ6	BLOCKING FACTOR:	1

Field Number	Field Name	Position	Length	Picture or Remarks
į	Program Identification	1-6	R	X(06) "EMBPØ2"
2	Filler	7	1	X(Ø1)
3	Run Month	8-9	2	X(Ø2) MM
4	Filler	10	1	X(Ø1) "/"
5	Run Day	11-12	2	X(Ø2) DD
6	Filler	13	1	X(Ø1)''/''
. 7	Run Year	14-15	2	X(Ø2) YY
<b>*</b> 8	Filler	16-80	65	X(65)
-				
***************************************				COMPANIENT AND CONTROL
•		A22		

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM
COMPONENT NAME: Billing
FILE NAME: Control Card (EMBFØ9)
VOLUME DEVICE: Card Reader
FILE ORGANIZATION: Sequential
FILE NUMBER OF VOLUME(FIRST, SECOND, ETC.): N/A
RECORD FORMAT: Fixed Length
RECORD LENGTH: 8\$
RECORDS PER BLOCK: 1
FILE RETENTION:
a. TEMPORARY
b. PERMANENT X RETENTION PERIOD:
RECORD RELATIVE KEY POSITION: N/A
KEY LENGTH: N/A
PHYSICAL BLOCKSIZE: 80
MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 1
CREATING PROGRAM: N/A
REFERENCING PROGRAM(S):

PROGRAM EMBPØ3 ACCESS METHOD

Sequential

Page 1 of 1	1
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# PTI/APWA EQUIPMENT MANAGEMENT SYSTEM

FILE NAME: Control Card for EMBPØ3	RECORD LENGTH 80
The state of the s	RECORD LENGTH: 89
FILE NUMBER: EMBF#9	BLOCKING FACTOR: 1

Field				
Number	Field Name	Position	Length	Picture or Remarks
1	Program ID	1-6	6	X(Ø6) "EMBPØ3"
2	Filler	7	1	X(Ø1)
3	Control Character	8	1	X(Øl) "R"-"D"-"B"*
4	Filler	9-80	72	X(72)
			,	
	*R - Rental Vehicles Only			
	D - Direct Charge Vehicles Only			
	B – Rental and Direct Charge			
######################################				
;				
,				
•		A-24		

SYSTEM NAME: PTI/APWA EQUIPMENT MANAGEMENT INFORMATION SYSTEM

COMPONENT NAME: Billing

FILE NAME: Organization / A PWA Table (EMGFØ3)

VOLUME DEVICE: Tape

FILE ORGANIZATION: Sequential

FILE NUMBER OF VOLUME (FIRST, SECOND, ETC.): N/A

RECORD FORMAT: Fixed Length

RECORD LENGTH: 8Ø

RECORDS PER BLOCK: 20

FILE RETENTION:

a. TEMPORARY

b. PERMANENT X

RETENTION PERIOD: Until updated with

changes to organ. code, APWA code, or facility code.

RECORD RELATIVE KEY POSITION: N/A

KEY LENGTH: N/A

PHYSICAL BLOCKSIZE: 1600

MAXIMUM NUMBER OF LOGICAL RECORDS ON FILE: 225

CREATING PROGRAM: Card-to-tape Utility

REFERENCING PROGRAM(S):

PROGRAM

EMBPØ2 EMBPØ3 ACCESS METHOD

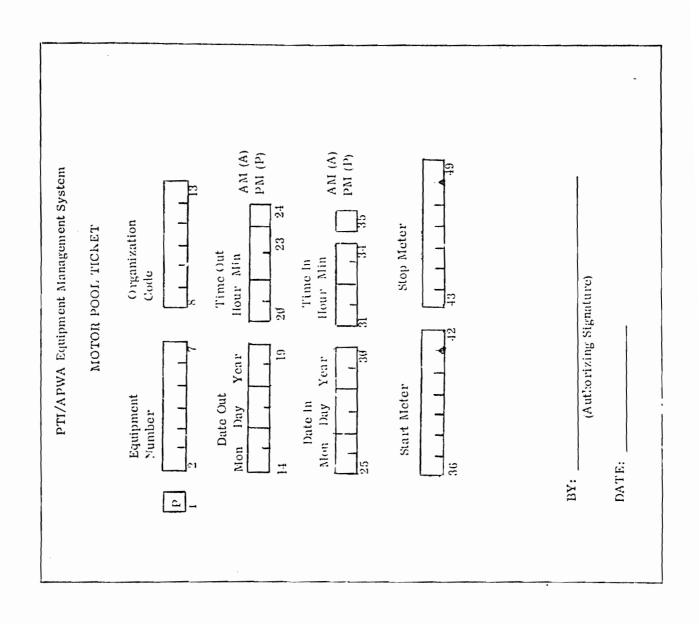
Sequential Sequential

FILE NAME: Org/APWA Table	RECORD LENGTH: 88	
FILE NUMBER: EMGFØ3	BLOCKING FACTOR:	2Ø

Field Number	Field Name	Position	Length	Picture or Remarks
1A	Table Identifier	ĵ	1	"1"
2A	Filler	2.	1	Blank
3A	Organization Code	3-8	6	X(6)
4A	Filler	9	1	Blank
5A	Organization Name	16-24	15	X(15)
6A	Filler	25-8Ø	26	Blank
Albert .	Table Identifier	1	1	"2"
lв	Filler	2	1	Blank
2B	APWA Code (2 high order pos.)	3-4	2	X(2)
<b>3</b> B	Filler	5-9	5	Blank
<b>4</b> B	APWA Description	1Ø-22	13	X(13)
5B	Filler	23-8ø	58	Blank
e∵ 1C	Table Identifier	1	1	"3"
2C	Filler	2	1	Blank
3C	Facility Code	3-6	4	X(4)
4C	Filler	7-9	3	Blank
	Facility Name	1ø-29	20	X(20)
6C	Filler	3ø8ø	51	Blank
	(See NOTE on attached page)	A-26		

NOTE: This file consists of three record types as shown above. The data is maintained on cards, but loaded to tape or disc before processing, using a card to tape or disc sort. The file sequence is in ascending order on pos. 1-8. There can be a maximum of 75 records for each record type (225 maximum records on the file), but there may be less of one or any type.

APPENDIX B
SAMPLE FORMS



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(43-44)

AND STATE FOR USE BY DATA PROPERTION OF STATE FOR USE BY DATA PROPERTY STATEMENT OF STATE PROFESSIONS SYSTEM \*\*\*\*\*\*\*\* Decreterion. -: -----. . . . . . . . . ...... Reproduced from best available copy. VEHICLE BODY YEAR. .... .... . \*\*\*\* TYYYXX - YY YX EXTYXXXXXXXXX HONTALY METER LE PORT YYY. - Fourtest at joined ine. :-your off Librartion ENDTLY DATE 105-30) /---/---: PATE 1466 PTS TO BE ULED HATA A VEGICLE IS ASSILATED TO Ternstrated Equal. oken. Carkerson.
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