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ABSTRACT

The Resource Planning System (RPS) provides the Chief of Naval Air Training (CNATRA) with the capability to determine the resources required to produce a specified number of Naval Aviators and Naval Flight Officers (NAs/NFOs) quickly and efficiently. The training of NAs and NFOs is extremely time consuming and complex. It requires extensive planning and constant monitoring to ensure efficient and effective use of available resources. The use of the RPS model is based on a roll back technique in which the desired output of NAs/NFOs is given as the independent variable. Then using a specified predetermined training time and attrition rate, the model determines the number of students that must enter the pipeline and the number of support personnel, instructors, and aircraft required for each training wing to meet the training objective. (Author/KC)

Technical Report 116

CHIEF OF NAVAL AIR TRAINING
RESOURCE PLANNING SYSTEM (RPS).

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March 1982

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The Resource Planning System (RPS) provides the Chief of Naval Air Training (CNATRA) with the capability to determine the resources required to produce a specified number of Naval Aviators and Naval Flight Officers (NAs/NFOs) quickly and efficiently. The system is based upon a "rollback" technique in which the desired output of NA/NFOs is given as the independent variable. Then utilizing a predetermined training time and attrition

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20. ABSTRACT (continued)

rate, the system determines the number of students that must enter the
pipeline and the number of support personnel, instructors, and aircraft
required to meet the training objectives.

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SECTION I

INTRODUCTION

The Chief of Naval Air Training (CNATRA), an activity under the command of the Chief of Naval Education and Training (CNET), provides undergraduate pilot and naval flight officer (NFO) training for Navy, Marine Corps, and Coast Guard personnel and selected foreign nationals. In accomplishing this training, CNATRA supervises and coordinates the functioning of all Naval aviation activities in the Naval Education and Training Command (NAVEDTRACOM) that are not specifically assigned to other Functional Commanders. The CNATRA is responsible for overall management functions including preparing budget estimates for resources to ensure that adequate funds are allocated in the Five Year Defense Plan (FYDP) to conduct all required operations and training.

Shifts in policy established by higher authority keep the Naval Air Training Command (NATRACOM) in a state of flux concerning the number of personnel that must be trained. Nevertheless, "the system" must adjust to these policy shifts if operational commitments are to be met.

Typically, overall planning in the Navy is responsive to fiscal guidance levied by Congress and interpretation of that guidance as it filters through the chain of command. Congress annually imposes a variety of fiscal constraints in terms of amount and type of resources allocated. The Chief of Naval Operations (CNO) evaluates these constraints and subsequently provides fiscal guidance to the various operating commands as well as establishing their operational commitments and requirements.

The primary training planning requirement provided to CNATRA by CNO is the number of naval aviators (NAs) and NFOs that must be trained to meet operational readiness criteria. This is commonly referred to as the Pilot Training Rate (PTR). A variety of other factors (i.e., available training aircraft, squadron manning levels, student naval aviator accessions, NA/NFO continuation rates) greatly impact CNATRA's planning and management functions and resource requirements.

In addition to the annual budget preparation, CNATRA is continually confronted with "what if" questions from higher authority concerning output capabilities, resource requirements, and cost savings given a particular set of conditions. Currently, preparing responses to these questions is done manually and is a labor intensive and time consuming process. In an attempt to facilitate the planning process and to provide faster and more accurate responses to the "what if" questions, CNET tasked[1] the Training Analysis and Evaluation Group (TAEG) to design a resource requirements projection model for CNATRA. As part of this tasking, TAEG was requested to provide CNATRA with necessary needs assessments to identify additional training management systems requirements within the NATRACOM.

[1]CNET ltr Code 022 of 23 Dec 1980

BACKGROUND

The training of NAs and NFOs is extremely time consuming and complex. It requires extensive planning and constant monitoring to ensure efficient and effective utilization of the available resources. Figure 1 outlines the basic process used to determine training rates for NAs and NFOs. The planning process starts with annual guidance provided by CNO as to the number of pilots and NFOs the Navy requires for a given fiscal year. CNATRA translates these numbers into required inputs and outputs to the various phases of training. In order to understand the nature and complexity of the training process in the NATRACOM it is necessary to have an appreciation for the magnitude of the task. Figures 2 and 3 present the training pipelines for naval aviators and NFOs respectively. These pipelines are composed of six training wings and 20 training squadrons. Figure 4 provides a macro view of the Strike pipeline. It is evident from figure 4 that in order to determine the required input to meet the PTR (required output) specified by CNO, the effects of training time and attrition rates for each training phase must be considered.

PURPOSE OF THIS REPORT

The purpose of this report is to present the Resource Planning System (RPS) and to provide a guide to the operation of the system for CNATRA personnel.

OVERVIEW OF THE RESOURCE PLANNING SYSTEM

The purpose of the RPS is to provide an easy and efficient means to determine the resources required to produce a specified number of NAs and NFOs. The model is based on a roll back technique in which the desired output of NAs/NFOs is given as the independent variable. Then utilizing a specified predetermined training time and attrition rate, the model determines the number of students that must enter the pipeline and the number of support personnel, instructors, and aircraft required for each training wing (TRAWING) to meet the training objective. The overall resource requirements for each TRAWING are derived utilizing the equations shown in table 1.

Figure 5 presents the options that comprise the RPS. Five primary options may be selected by the user via the MASTER RPS MENU. When the user selects an option, the subsystem appears on the display as a list (menu) of additional options which allows the user to insert, delete, update, print, or analyze various data elements.

```
┌─────────────────────────────────────┐
│              CNO                     │
│           PTR/NFOTR                  │
│              LTR                     │
└─────────────────────────────────────┘
                  │
┌─────────────────────────────────────┐
│        ROLLBACK THROUGH              │
│     EACH PHASE, DETERMINING          │
│     INPUT TO PHASE AND OUTPUT        │
│       FROM PREVIOUS PHASE            │
└─────────────────────────────────────┘
                  │
┌─────────────────────────────────────┐
│     ADJUST EACH PHASE OUTPUT         │
│     FOR PRODUCTION FLOW BASED        │
│     UPON TIME IN PHASES AND          │
│          PERCENT PER FY              │
└─────────────────────────────────────┘
                  │
┌─────────────────────────────────────┐
│     APPLY CNO PLANNING FACTORS TO    │
│      EACH PHASE OF EACH PIPELINE     │
│      PTR/NFOTR OUTPUT DETERMINING    │
│  BROADLY #A/C, FLIGHT HOURS, PERSONNEL TO │
│     PRODUCE EQUIVALENT FY PTR/NFOTR  │
└─────────────────────────────────────┘
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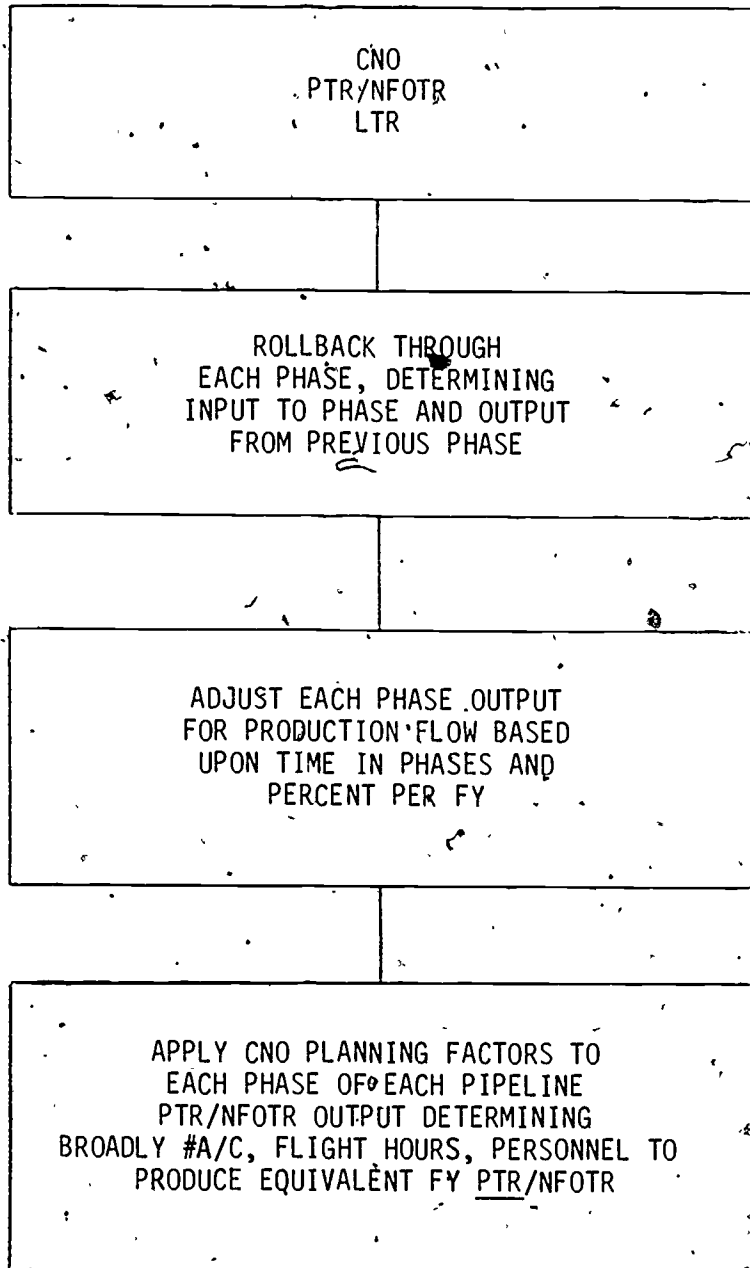
Figure 1. Macro View of Naval Aviator/Naval Flight Officer
Equivalent PTR/NFOTR Determination Process
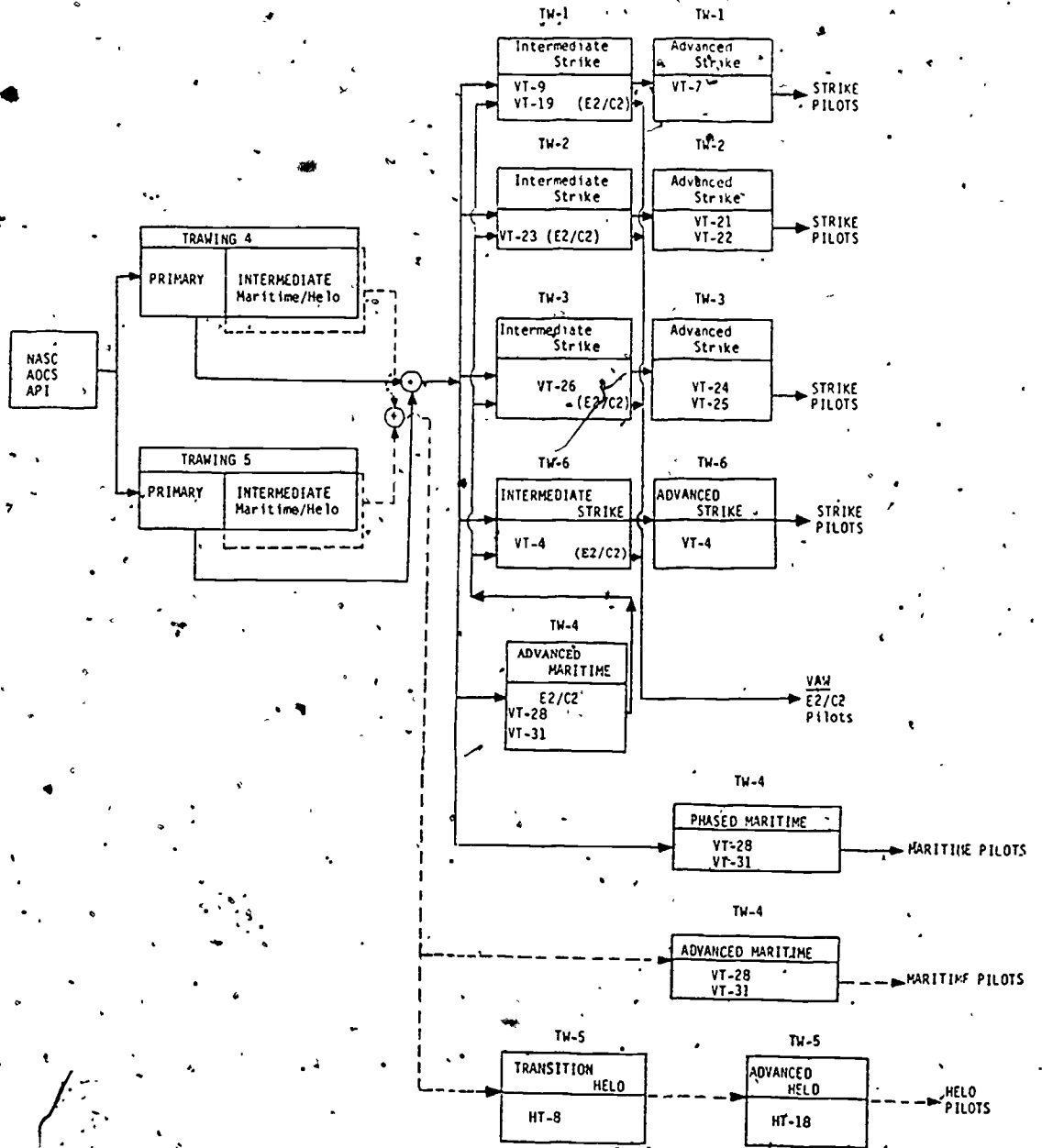
Figure 2. Naval Aviator Training Pipelines

NAVAL AVIATION SCHOOLS COMMAND

```
┌─────────────────────────┐          ┌─────────────────────────┐
│           AOC           │          │           API           │
│   AVIATION OFFICER      │          │   AVIATION PRE-FLIGHT    │
│   CANDIDATE SCHOOL      │          │   INDOCTRINATION         │
└─────────────────────────┘          └─────────────────────────┘
```

VT-10.   BASIC

```
┌─────────────────────────────────────────┐
│          RIO/TN/ATDS/NAV/OJN             │
│                                          │
│          AIRCRAFT- T2C                   │
└─────────────────────────────────────────┘
```

VT-10 INTERMEDIATE

```
┌─────────────────────────────────────┐
│        RIO/TN/ATDS/OJN               │
│                                      │
│     AIRCRAFT- T2C and T39D           │
└─────────────────────────────────────┘
```

ADVANCED ATDS   VT-86 ADVANCED RIO/TN/OJN   ADVANCED NAV

```
┌─────────────────────┐    ┌─────────────────────────────┐    ┌─────────────────┐
│ RVAW (EAST/WEST)    │    │       RIO  OJN, TN           │    │  MATHER AFB     │
│                     │    │                              │    │                 │
│                     │    │  AIRCRAFT- T39D AND TA4J     │    │                 │
└─────────────────────┘    └─────────────────────────────┘    └─────────────────┘
```
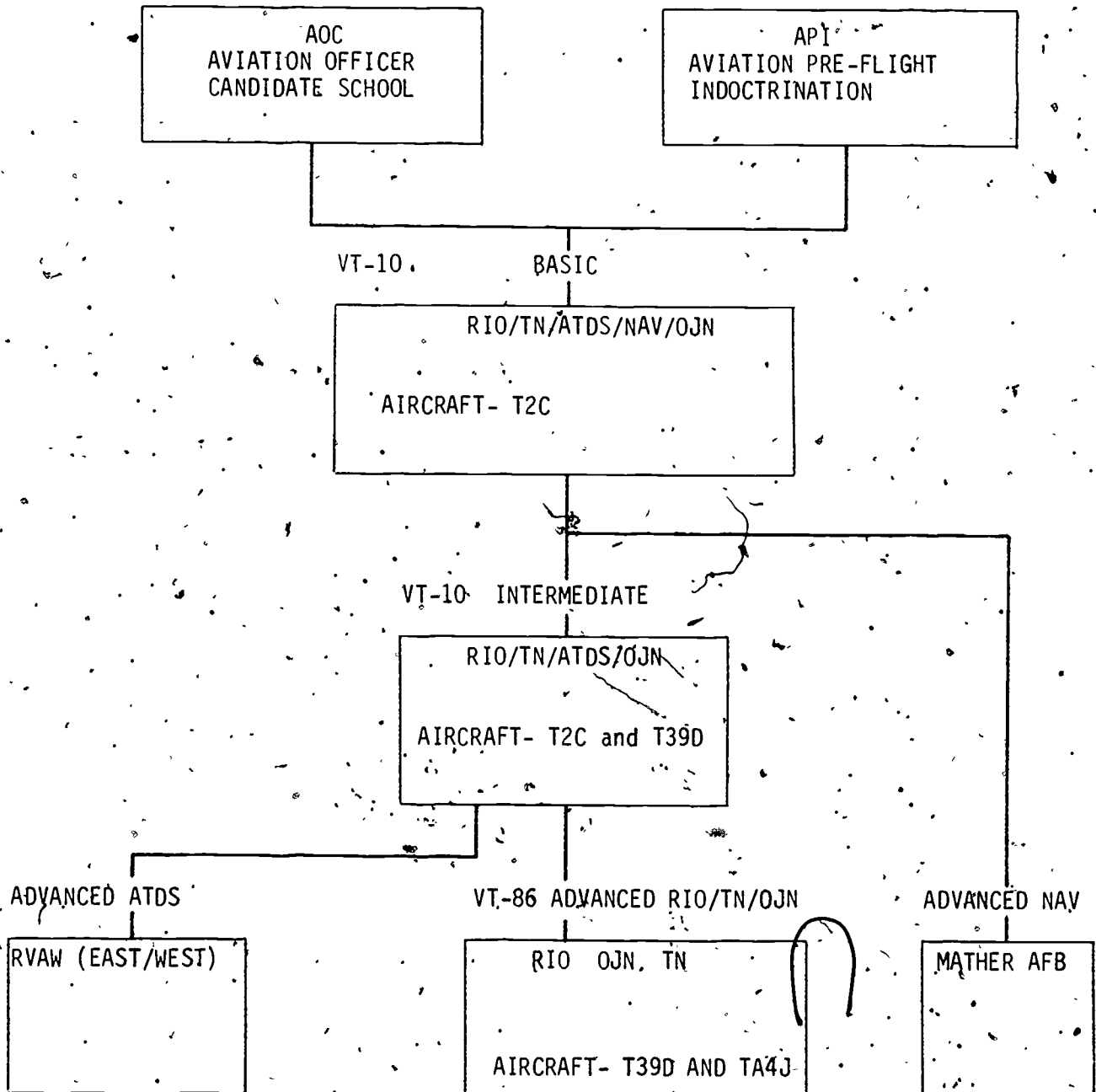
Figure 3. Naval Flight Officer Training Pipelines
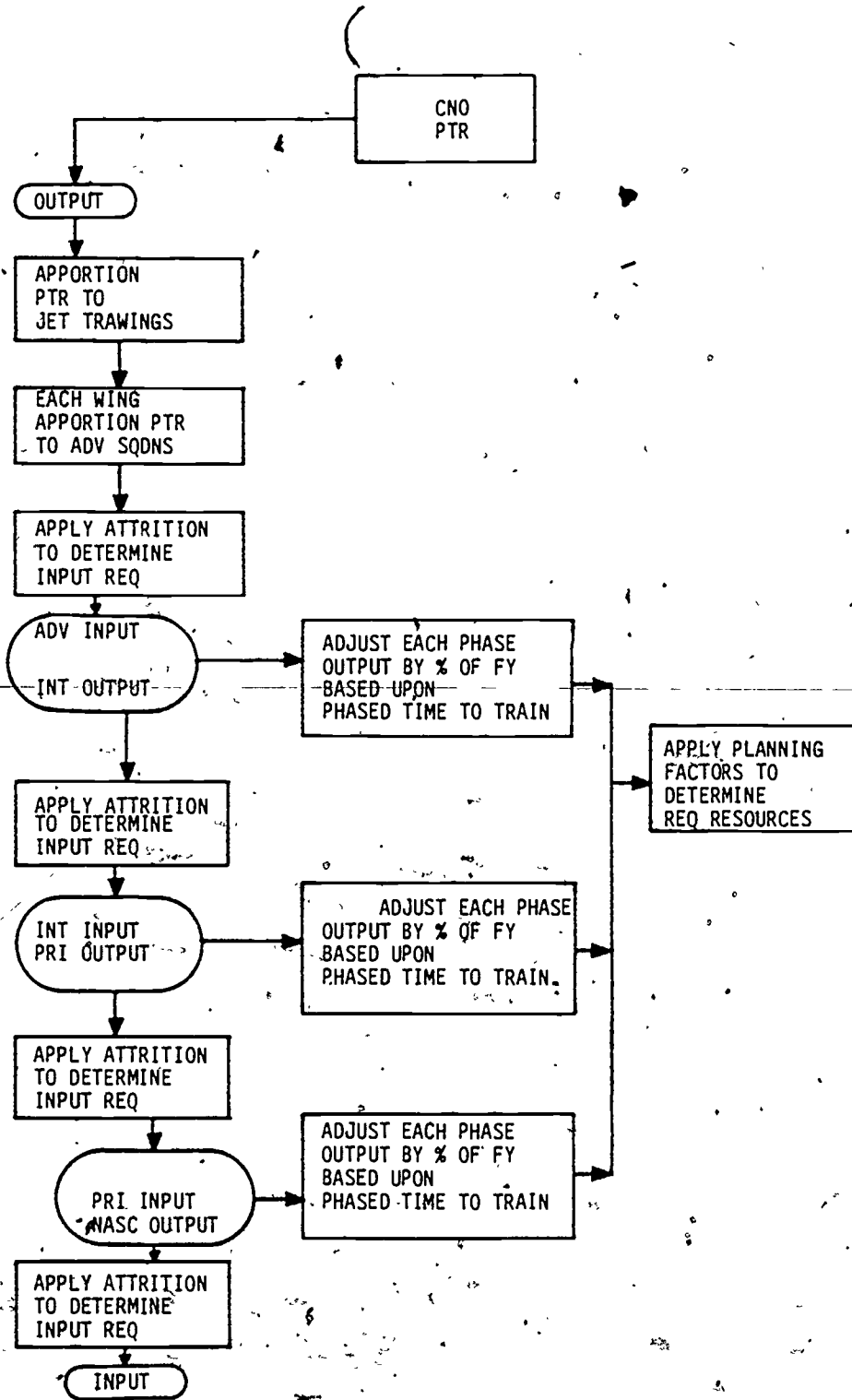
Figure 4. Micro View of Strike Pipeline PTR Determination Process

TABLE 1.   TRAINING WING RESOURCE REQUIREMENTS CALCULATIONS

Flight Hours

Annual Flight Hours (I) = Phased PTR (I) X aircraft HRS/Student (I)

$$\text{Total Annual Flight Hours} = \sum_{I = USN}^{Other} \text{Annual Flight Hours (I)}$$

Where I is the type of student - USN, USMC, USCG, Foreign, Other.

PTR is pilot training rate

Aircraft

$$\text{A-3 Status Aircraft (I)} = \frac{\text{Annual Aircraft Flight Hours (I)}}{\text{Annual Aircraft Utilization (I)}}$$

$$\text{Total A-3 Status Aircraft} = \sum_{I = USN}^{Other} \text{A-3 Status Aircraft (I)}$$

Group IX Enlisted

$$\text{Group IX Enlisted (I)} = \sum_{J} \text{A-3 Status Aircraft (I)} \times \text{Mo (I,J)}$$

Where Mo = Maintenance Factor and J = Squadron or Naval Air Station

$$\text{Total Group IX Enlisted} = \sum_{I = USN}^{Other} \text{Group IX Enlisted (I)}$$
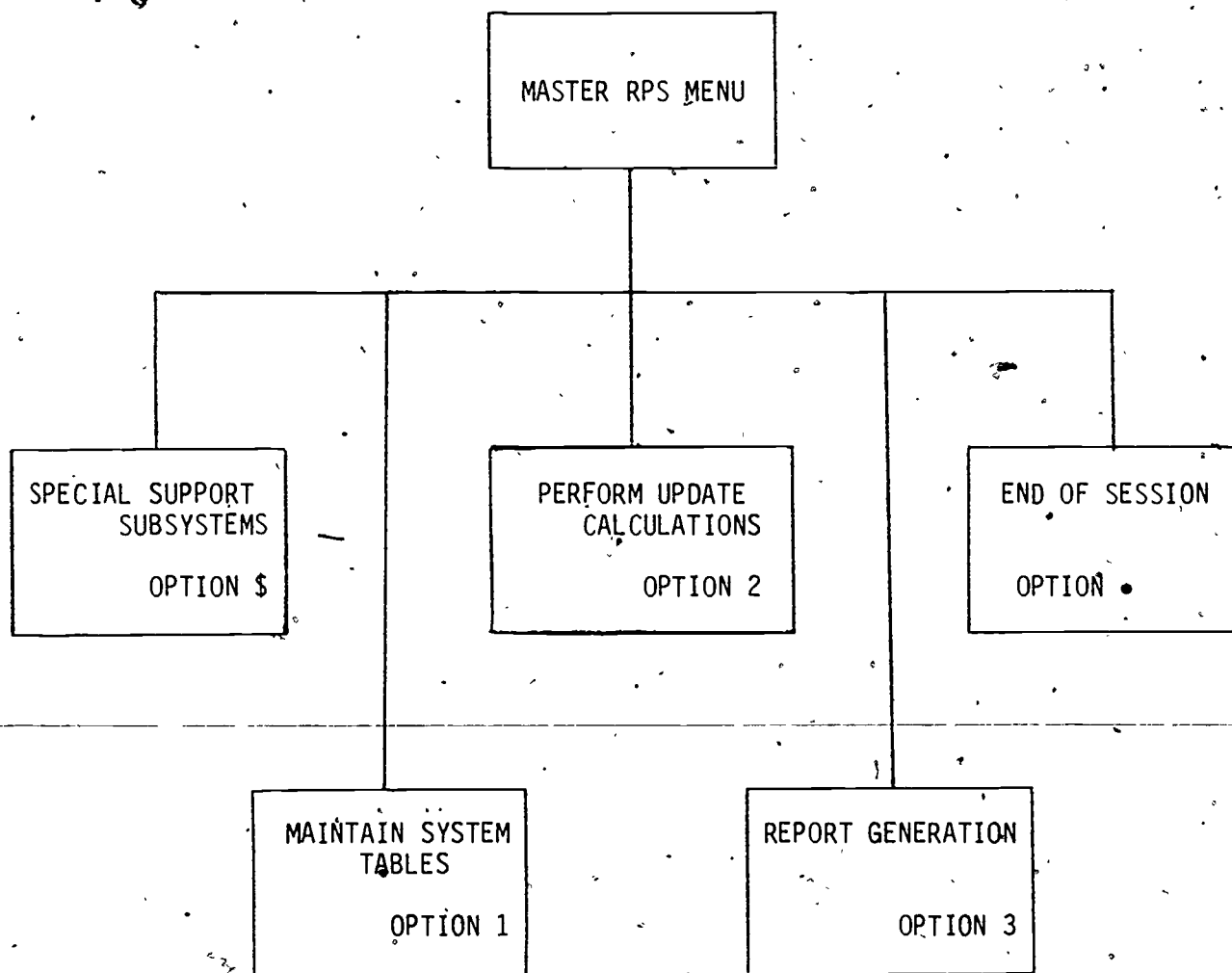
Figure 5. Resource Planning System (RPS) Master Menu

This system is highly interactive and user oriented; consequently, numerous messages and instructions are provided throughout to aid the user. Additionally, the system can accommodate a variety of users in both the initial insertion of data as well as in the analysis of these data.

The operating environment and special support software deserve special attention and are discussed in this overview. The RPS software is written in BASIC-2 and designed to operate on a WANG 2200 VP or WANG 2200 MVP computer in either a multiplexed or non-multiplexed disk environment. All models of currently available WANG disks are supported. The RPS uses Key File Access Method Seven (KFAM-7) for initializing all of the system data key files and the help subsystem files. Full record protection is afforded by RPS and KFAM-7. The KFAM-7 programs used with the RPS have been modified to support additional error recovery tables. Therefore, only the KFAM-7 programs supplied with the RPS should be used.

In a multi-user environment, RPS assigns a unique station number to each user. This station number, along with the current date and disk address of the data files, is displayed in the upper right corner of the master menu and all subsystem menus.

SYSTEM OPTIONS

The Special Support Subsystem (Option $) software consists of programs to initialize files, edit help files, rebuild key files, and provide error recovery. Two special support options are provided for error recovery. These options allow the user to reset the RPS Busy Flags and Reset the User Table.

The help files may be used to provide messages to aid the user as to how to proceed at various places in the system. These help files may be customized by the user to place more or less emphasis on different parts of the system and to describe procedures or techniques which may be unique to the command.

The Maintain System Tables Subsystem (Option 1) allows the user to input, edit, delete, and print data items related to the PTR. This also includes Planning Factors and Phasing Percentage.
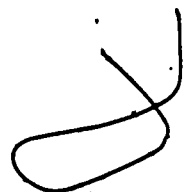
The Perform Update Calculations Subsystem (Option 2) is used to calculate the PTR file, the phased PTRs and the resource outputs. Additionally, this subsystem allows the user to print the Phase PTR.

The Report Generation Subsystem (Option 3) enables the user to print a variety of reports from the calculated PTR file and Phased FY requirements.

ORGANIZATION OF THIS REPORT

In addition to this introduction the report is divided into two other sections and three appendices. Section II briefly describes the RPS and its major options and suboptions. Section III is a detailed guide to the operation of the RPS. Examples of the Naval Aviator Pipelines are contained in appendix A. Appendix B contains examples of the various file outputs; appendix C contains examples of the various reports available from the RPS.

SECTION II

RPS SYSTEM DESIGN

One of the primary objectives of the CNATRA RPS is to provide the ability to model student flow through the NATRACOM in a manner that can easily accommodate changes to the structure without necessitating a computer program change. This objective is met by making the RPS table driven. The most important table in the system is the Pipeline Structure Table (PST); a portion of this table is presented in figure 6. In order to understand and use the system effectively, the user must understand how each pipeline is modeled as well as understand the PST. A model of the helicopter pipeline training is presented in figure 7 where each block represents a phase of training (omitting officer and other). Appendix A contains similar diagrams for all other pipelines. The pipeline as shown in figure 7 is represented in the PST of figure 6.

Note that in the pipeline structure table (figure 6) the helicopter pipeline is designated in the table by the letter "H". The pipeline identification (ID) is simply a number used to keep all of the records for a particular pipeline together. Usually the wing number for the advanced training squadrons is used. The pipeline position denotes the position of a record or block in the pipeline model. A "1" indicates the end of the pipeline while a "6" indicates the beginning. The training wing is the training wing number for training squadrons (TRARON). A letter is used to indicate the training phase.

RECORD NO.	TRAINING PIPELINE	PIPELINE ID	POS.	WING	TRAINING PHASE	SQUAD-RON	DIST. RATE	UIC	AG	SAG
1	A		1		A	RVAW	0.00			
2	A		3	6	I	VT-10	1.00			
3	A		4	6	P	VT-10	1.00			
4	A		5		C	API	0.50			
5	A		5		D	API	0.50			
6	A		6		F	OFF	1.00			
7	A		6		O	AOCS	1.00			
8	A		6		E	N-OFF	1.00			
9	E	4	1	4	A	VT-28	0.00			
10	E	4	1	4	A	VT-31	0.00			
11	E	4	3	1	I	VT-19	0.12			
12	E	4	3	1	I	VT-9	0.38			
13	E	4	3	2	I	VT-23	0.38			
14	E	4	3	3	I	VT-26	0.38			
15	E	4	4	4	P	VT-27	0.29			
16	E	4	4	5	P	VT-2	0.25			
17	E	4	4	5	P	VT-3	0.25			
18	E	4	4	5	P	VT-6	0.25			
19	E	4	5		C	API	0.50			
20	E	4	5		D	API	0.50			
21	E	4	6		F	OFF	1.00			
22	E	4	6		Q	AOCS	1.00			
23	E	4	6		E	N-OFF	1.00			
24	H	5	1	5	A	HT-18	0.00			
25	H	5	2	5	T	HT-8	1.00			
26	H	5	3	4	N	VT-27	0.25			
27	H	5	3	5	N	VT-2	0.25			
28	H	5	3	5	N	VT-3	0.25			
29	H	5	3	5	N	VT-6	0.25			
30	H	5	4	4	P	VT-27	0.25			
31	H	5	4	5	P	VT-2	0.25			
32	G	5	4	5	P	VT-3	0.25			
33	H	5	4	5	P	VT-6	0.25			
34	H	5	5		C	API	0.50			
35	H	5	5		D	API	0.50			
36	H	5	6		F	OFF	1.00			
37	H	5	6		O	AOCS	1.00			
38	H	5	6		E	N-OFF	1.00			
39	M	4	1	4	A	VT-28	0.00			
40	M	4	1	4	A	VT-31	0.00			

Figure 6. Pipeline Structure Table (Part)

Helo Pipeline

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┌─────────┐      ┌─────────┐
│  OTHER  │─────▶│  AOCS   │──────┐
└─────────┘      └─────────┘      │
                                  │
                                  │        TW-4          TW-4
                                  │    ┌─────────┐   ┌─────────┐   ┌─────────┐   ┌─────────┐
                                  │    │ VT-27   │   │ VT-27   │   │         │   │         │
                                  └───▶│ PRIMARY │──▶│  IMED   │──▶│TRANSITION│─▶│  ADV    │
                                  │    │VT-2 VT-3│   │VT-2 VT-3│   │  HT-8   │   │ HT-18   │
                                  │    │VT-6     │   │VT-6     │   │         │   │         │
                                  │    └─────────┘   └─────────┘   └─────────┘   └─────────┘
                                  │       TW-5          TW-5          TW-5           │
┌─────────┐      ┌─────────┐      │                                                 │
│ OFFICER │─────▶│   API   │──────┘                                                 ▼
└─────────┘      └─────────┘                                                      Helo
                                                                                  Pilots
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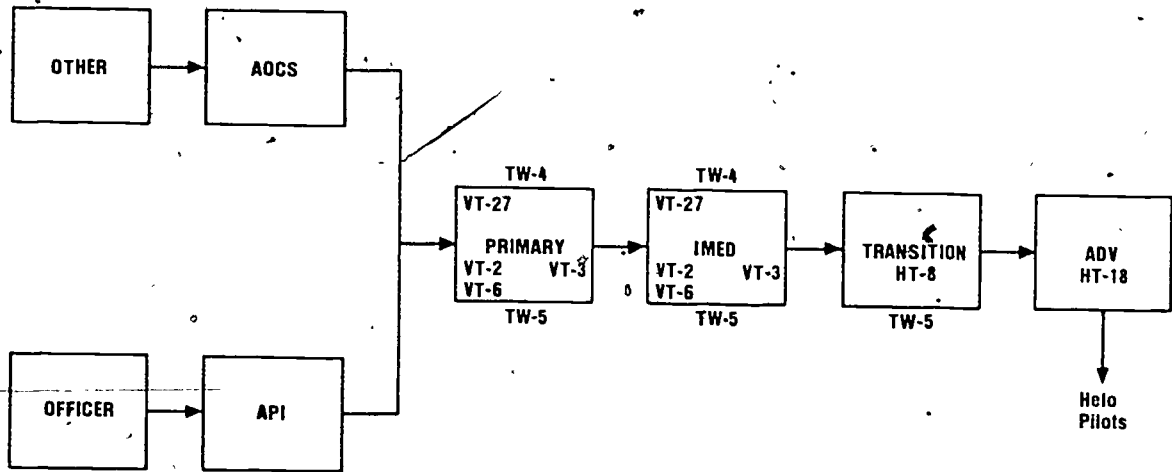
TW = Wing No.

Figure 7.   Helicopter Pipeline Model

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TABLE 2. PIPELINE STRUCTURE TABLE RECORD DESCRIPTION

TERM	DESCRIPTION	VALUES
Training Pipeline	Indicates the different pipelines	'S' - Strike 'M' - Maritime 'H' - Helicopter 'P' - Phased Maritime 'E' - E2/C2 (Maritime) 'R' - RIO (NFO) 'T' - TN (NFO) 'A' - ATD (NFO) 'N' - Navigator (NFO) 'O' - OJN (NFO)
Pipeline ID	Number used to keep all of a record for a particular pipeline together (Number is the same as the training wing at which a student completes Navy training within the Naval Air Training Command)	1 = Strike 2 = Strike 3 = Strike 4 = Maritime E2/C2 (Maritime) Phased Maritime 5 = Helicopter 6 = ATD (NFO) Navigator (NFO) RIO (NFO) TN (NFO) OJN (NFO) STRIKE
Pipeline Position	Position within the various training pipelines	'1' - Advanced '2' - Transition '3' - Intermediate '4' - Primary/Basic NFO '5' - API/AOCS '6' - Officer Input '6' - Non-Officer Input
Training Wing	Indicates a training wing	'1' - TRAWING 1 '2' - TRAWING 2 '3' - TRAWING 3 '4' - TRAWING 4 '5' - TRAWING 5 '6' - TRAWING 6

TABLE 2. PIPELINE STRUCTURE TABLE RECORD DESCRIPTION (continued)

TERM	DESCRIPTION	VALUES
Training Phase	Indicates the various phases of training	'A' - Advanced 'C' - AOCS 'D' - API 'E' - Non-Officer 'F' - Officer 'I' - Intermediate (Strike & NFO) 'N' - Intermediate (Helo & Maritime) 'P' - Primary/Basic NFO 'T' - Transition Helicopter
Squadron	Indicates the various training Activity/Sources for Personnel in the Pipeline	Any Training Squadron Plus: API (NASC) AOCS (NASC) RVAW USAF
Distribution Rate	Percent of Students coming out of a TRARON or NASC Phase that go into the next phase of the pipeline. Distribution rates of 0.00 indicate the end of a pipeline.	Values range from 0.00 - 1.00
UIC	Unit Identification Code	For use at a later date
AG	Activity Group	For use at a later date
SAG	Sub-Activity Group	For use at a later date

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The squadron column denotes the squadron number or phase of training in the Naval Aviation Schools Command (NASC). The distribution rate indicates the percent of students coming out of a TRARON or NASC phase that go into the next phase of the pipeline. For example, 100 percent of the students going into advanced helicopter, HT-18, come from transition helicopter, HT-8. On the other hand, the students coming into transition helicopter training come from four squadrons. Figure 6 indicates that 25 percent come from each squadron. The unit identification code (UIC), activity group (AG), and subactivity group (SAG) columns are not currently being used but are in the system for future use.

In addition to understanding the pipeline structure table, the RPS user should also be familiar with several other concepts. A pipeline fiscal year production diagram for the strike pipeline is shown in figure 8. Each of the lines labeled FY __ Production shows the pipeline for a trainee from AOCS to advanced training. As can be seen from figure 8, a pipeline production envelope goes across three fiscal years. However, resources are budgeted on a fiscal year basis. Therefore, it is necessary to look at the total number of students being trained in a fiscal year. Note from figure 8 that students being trained in FY-82 come from the FY-82, 83, 84 production years. Consequently, to determine resources for a given fiscal year PTR, an equivalent or phased PTR must be calculated. This is done first by calculating the number of graduates required from each training phase to produce the fiscal year PTRs. The graduates from each phase are a function of the inputs and the attrition rates. Once the number of graduates has been calculated, the equivalent PTR can be calculated by determining the percent of students coming from the various fiscal year's production being trained in a given fiscal year. In-training phasing percentages are calculated using the following formula:

In-training Phasing Percentage = Area A/(Area A + Area B) * 100

As can be seen from figure 8 (FY-82 Strike Pipeline) these percentages are the ratio of a FY production to the total students being trained in a given fiscal year. For example, in figure 8, 80 percent of the advanced strike students being trained in FY-82 are from the FY-82 production and 20 percent are from the FY-83 production.

The discontinuities shown in figure 8 are due to travel time between training phases and Christmas leave.

Another phasing percentage used in calculating average on board (AOB) is the completion phasing percentage. This phasing percentage is based on the number of students completing a phase of training. For example, from figure 8 it can be determined that the FY-82 primary completion phasing percentages are approximately 14 percent and 86 percent. This means that approximately 14 percent of the students that complete primary strike in FY-82 are a part of the FY-82 production and the other 86 percent are a part of the FY-83 production. Mathematically, the completion phasing percentages may be determined as follows:

STRIKE PIPELINE

FY-81   FY-82
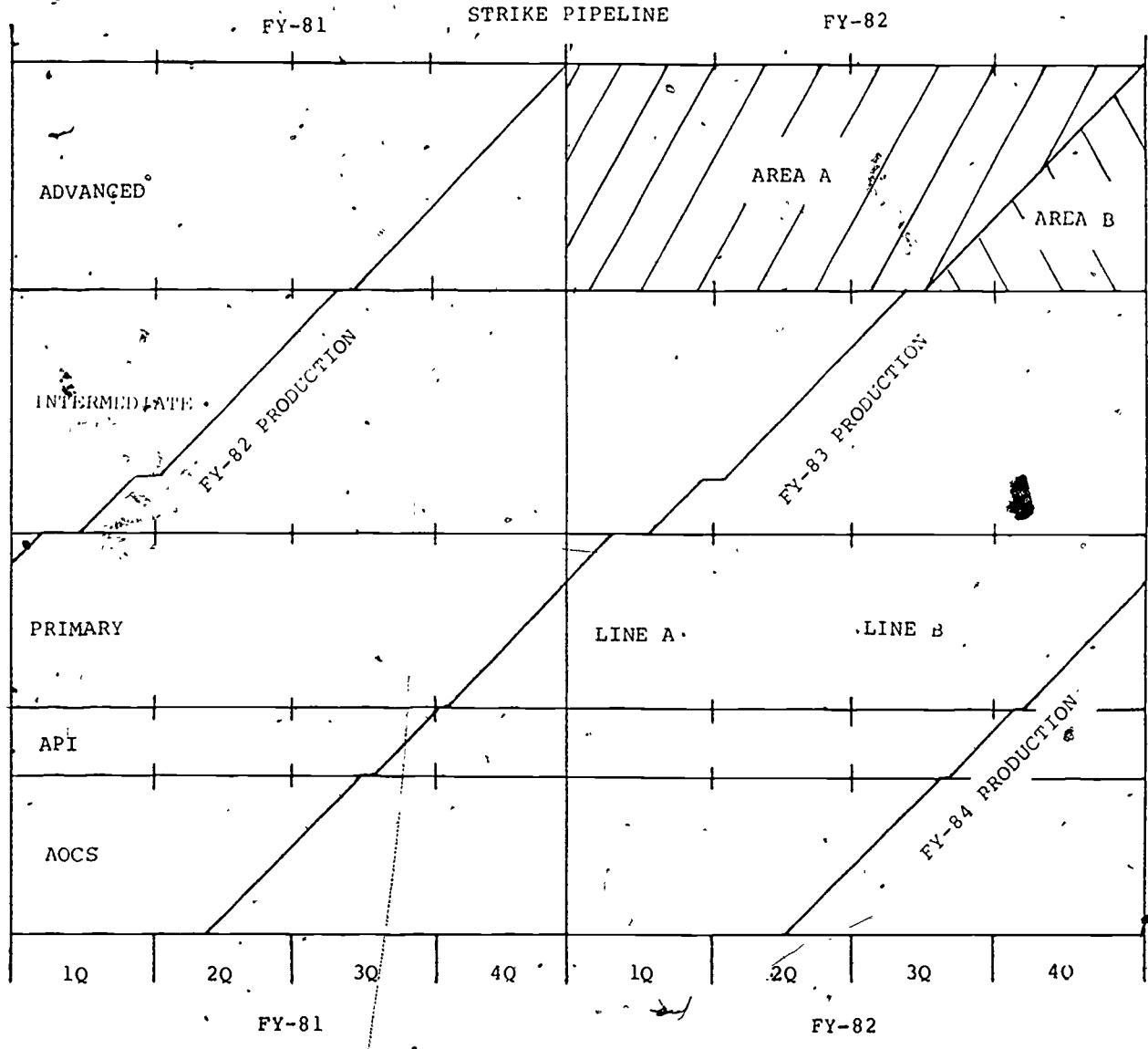
Figure 8. - Strike Pipeline Production Diagram

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FY-82 Primary completion phasing percentages of the FY-82 production=
Length of line A/(length of line A + length of line B) * 100

FY-82 Primary completion phasing percentages of the FY-83 production=
Length of line B/(length of line A + length of line B) * 100

It should be noted from figure 8 that the in-training and completion
phasing percentages will only change if the curriculum length measured in
quarters of fiscal years, time between training phases, and/or the length of
Christmas leave period changes.(indicated as discontinuities in production
year).

Figure 9 presents a hypothetical PTR of 100 for current FY; 125 FY+1 and
140 FY+2. To achieve these PTRs a rollback calculation is made. To produce
a PTR of 100 in the current FY which has a 4 percent attrition in the advanced
phase, the output of the intermediate phase must be 104 (100/1-.04 or 100/.96).
Subsequently, if 104 are required to be trained in the intermediate phase,
which has an attrition rate of 8 percent, the primary phase must produce 113.
(104/1-.08 or 104/.92). Thus, all the calculations for the PTRs are accom-
plished in this fashion. To obtain a PTR of 100, NASC must have an input of
150. The calculations for FY equivalent PTR utilizes the area of figure 8
and the calculations of figure 9 give a higher PTR since the FY+1 will pro-
duce 25 more than the current FY.

RPS PROGRAM UTILIZATION

Effective utilization of RPS is dependent on the accuracy and complete-
ness of the RPS data bases. Figure 10 presents a sequence diagram for
running RPS. Steps 1 through 4 are simply the inputting of the required
data into the various data bases. The user should note that the order in
which the data is input is not significant. However, all the data must be
entered prior to continuing to step 5. The calculations performed in steps
5 through 8 are dependent on the information contained in the data bases.
Any of the first four steps may be omitted if there are no changes made in
the data bases.

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TRAINING PHASE	ATTRITION	FY PTR	FY+1 PTR	FY+2 PTR	FY EQUIVALENT PTR
ADVANCED OUTPUT	4%	100	125	140	80% (FY PTR) + 20% (FY + 1 PTR) .80 X 100 + .20 X 125 80 + 25 = <u>105</u>
INTERMEDIATE OUTPUT	8%	$\dfrac{100}{1-0.04} = 104$	$\dfrac{125}{1-0.04} = 131$	$\dfrac{140}{1-0.04} = 146$	40% (FY PTR) + 60% (FY + 1 PTR) .40 X 104 + .60 X 131 41.6 + 78.6 = <u>121</u>
PRIMARY OUTPUT	16%	$\dfrac{104}{1-0.08} = 113$	$\dfrac{131}{1-0.08} = 143$	$\dfrac{146}{1-0.08} = 159$	2% FY PTR + 89% (FY + 1 PTR) + 90% (FY + 2 PTR) .02 X 113 + .89 X 143 + .09 X 159 2.26 + 127.27 + 14.31 = <u>144</u>
NASC OUTPUT	10%	$\dfrac{113}{1-0.16} = 135$	$\dfrac{143}{1-0.16} = 171$	$\dfrac{159}{1-0.16} = 190$	0% (FY PTR) + 66% (FY + 1 PTR) + 39% (FY + 2 PTR) 0 + .66 X 171 + .34 X 190 0 + 112.86 + 64.6 = <u>178</u>
NASC INPUT	--	$\dfrac{135}{1-0.1} = 150$	$\dfrac{171}{1-0.1} = 190$	$\dfrac{190}{1-0.1} = 211$	0 (FY PTR) + 40% (FY + 1 PTR) + 60% (FY + 2 PTR) 0 + .4 X 190 + .60 X 211 = <u>203</u>

Note: Numbers greater than 0.2 are rounded to the next highest integer.

Figure 9. Sample Equivalency PTR Calculation

START

| Input/Edit TRARON Planning Factors for Aircraft and Training Devices | ---- (STEP 1 |

| Input/Edit In-training and Completion Phasing Percentage for all Training Phases | ---- (STEP 2 |

| Input/Edit Attrition Rates for all Training Phases | ---- (STEP 3 |

| Input/Edit Advance PTR and NFOTR | ---- (STEP 4 |

| Calculate PTR and NFOTR | ---- (STEP 5 |

| Calculate Equivalent PTR and NFOTR | ---- (STEP 6 |

| Calculate Resources | ---- (STEP 7 |

| Print Required Resource Reports | ---- (STEP 8 |

STOP

Figure 10. Sequence Diagram for Running RPS

SECTION III

RPS OPERATING PROCEDURES

It is assumed that the required computer hardware (CRT, Disk Drive, and Line Printer) is available to the user intending to use the RPS. Initializing the equipment is an extremely easy task. However, because of the many equipment configurations that are possible, it is desirable that personnel knowledgeable in WANG equipment set up the system for subsequent use. When the system has been set up, the following will appear on the CRT display:

```
                        Ready (BASIC-2)
```

To load the Resource Planning System, the user should type in the following command(s):

```
        Select Disk xxx (*)     (Return)
        Load Run                (Return)
```

(*) Where "xxx" is replaced by the appropriate disk address.

Upon completion of the above step, the following display will appear on the screen:

```
          * * * Attention * * *

 All of the data entry prompts used throughout this

 system terminate (cursor moves to next prompt)

 automatically when full.  If the RETURN key is

 pressed to terminate a prompt which has been

 filled, the system assumes the RETURN pertains to

 the next prompt, which is then terminated.  This

 automatic termination of full fields is incorporated

 into the system to increase user productivity by

 decreasing the number of keystrokes.  It

 may take some getting use to, but in the long run

 it is much more efficient.


 Note:  All data entry prompts will allow input

        data to be underlined.  Be aware that when

        underlined data is printed on a 2261W

        printer that underlined data will be

        printed as blanks.

 READY.  Please touch RETURN to continue.
```

Touching RETURN will cause the following display to appear:

```
Welcome to the Resource Planning System
Please Enter Today's Date (mmddyy): _____
```

To continue, the current date must be entered. All fields must contain two digits; a zero should precede any single digit month or day. For example, August 10, 1981, should appear as 081081. After the date is entered, the following questions will appear as the RETURN key is pressed:

```
Welcome to the Resource Planning System                          08/10/81 S:  2

    Please Enter Today's Date (mmddyy):  08/18/81

    Please Enter Console Address:  005

    Please Enter Printer Address:  204

    Please Enter the Disk Address of
    the disk drive containing RPS Programs:  D12

    Please Enter the Disk Address of
    the disk drive containing RPS Project Files:  D12

    Please enter Fiscal year:  81


    ! Data Files          !         !System!Console!Printer!   FY   !
    !                     !         !      !       !       !        !
    !       /D12          !         ! /D12 ! /005  ! /204  !   82   !
    !                     !         !      !       !       !        !
```

The system has been set up to default through these questions, so if there are no changes to be made to the default responses, pressing RETURN five times will allow the user to proceed to the final responses in this section. The screen will now display the final two responses in the section:

```
    · Please enter your user ID:  #######
                          Please enter password:  ######
```

The password is an eight character code which must be entered by all users before the system will continue to the next section. The password must be defined at system installation time and is programmed into the system. Once the user ID and password have been entered, the screen will display:

```
We are now on our way to the next    subsystem
of the RESOURCE PLANNING SYSTEM.
```

which will immediately be followed by:

```
Resource Planning System:   MASTER RPS MENU 08/10/81 S:   2

        Option                    Available Options
        $                    Special Support Subsystem

        1                    Maintain System Tables
        2                    Perform Update Calculations
        3                    Report Generation
        •                    End of Session

                             Enter Desired Option:       #
```

   The above display is called the MASTER RPS MENU. It is the beginning and
end of all subsystem operations. From this menu the user may select any one
of the four available options.

   When the system is used for the first time, all of the system data files
must be initialized; otherwise, any attempts to use the system will result
in some error messages. To initialize all the system data files, Option 4,
Re-initialize Files, of the Special Support Subsystem described in the next
section must be executed. Once all the initializations are completed, the
user should return to the MASTER RPS MENU. The user, at this point, may
proceed to enter data, perform calculations, and generate reports.

   The remainder of this report describes the procedures for operating each
of the four subsystems available with the RPS.

SPECIAL SUPPORT SUBSYSTEM (Master RPS Menu Option $)

   Figure 11 shows the various options available to the user of the RPS
Special Support Subsystem.

   Selecting option $, Special Support Subsystem, from the MASTER RPS MENU
will cause the system to display:

```
            We are now on our way to the next
            subsystem of the RESOURCE PLANNING
            SYSTEM
```

which will be immediately followed by:

```
   Resource Planning System:
   RPS SPECIAL SUPPORT MENU                    07/10/81  S:    2

Option! System Accounting Programs    #Option! Initialize & Rebuild Files
       !                              #       !
1      ! Print Documentation Files    #4      ! Reinitialize Files
       !                              #       !
       ------------------------------ #       ----------------------------
       ! Error Recovery Programs      #       ! Special Applications Programs
       !                              #       !
       ------------------------------ #       ----------------------------
2      ! Reset RPS Busy Flags         #$      ! Load Special Application
3      ! RESET User Table             #       !
                                      #       ! Return to RPS Master Menu
                                      #

                                            Enter Desired Option: #
```

The special support software consists of system accounting programs, error recovery programs initialization programs, and special applications programs. Options 1 through 4 are of special interest to the user and will be discussed in detail. The last option, LOAD SPECIAL APPLICATION, SHOULD ONLY BE USED BY A SYSTEMS PROGRAMMER.

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```
                  ┌─────────────────────────┐
                  │   SPECIAL SUPPORT        │
                  │      SUBSYSTEM           │
                  │                          │
                  │(MASTER RPS MENU OPTION $)│
                  └─────────────────────────┘
```

┌────────────────────┐   ┌────────────────────┐   ┌────────────────────┐
│ PRINT DOCUMENTATION │   │ RESET RPS BUSY   │   │ RESET USER TABLE │
│   FILES   │   │   FLAG(S)   │   │   │
│   │   │   │   │   │
│   OPTION 1   │   │   OPTION 2   │   │   OPTION 3   │
└────────────────────┘   └────────────────────┘   └────────────────────┘

┌────────────────────┐   ┌────────────────────┐   ┌────────────────────┐
│ REINITIALIZE FILES │   │LOAD SPECIAL APPLICATION│ │ RETURN TO RPS   │
│   │   │   │   │ MASTER MENU   │
│   OPTION 4   │   │   OPTION $ │   │   OPTION .   │
└────────────────────┘   └────────────────────┘   └────────────────────┘
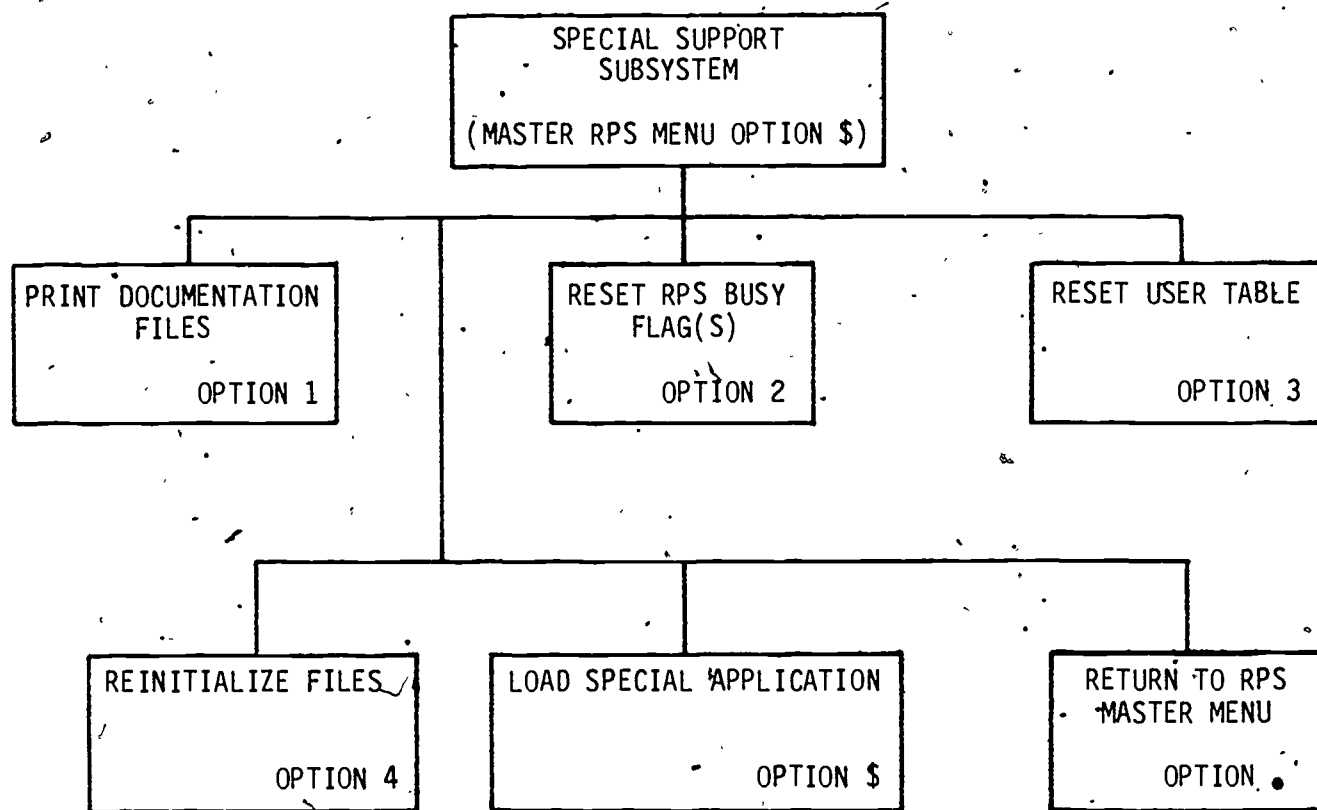
Figure 11. Special Support Subsystem

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OPTION 1, PRINT DOCUMENTATION FILES. Selecting Option 1, Print Documentation Files, from the RPS Special Support Menu will cause the screen to display:

```
RPS DOCUMENTATION SELECTION MENU                        08/10/81  S:   2

Option!    Documentation Files        #Option!    Documentation Files
1     ,! RPS Phasing Percentages Doc.  #11    ! RPS PTRs and ATRs Doc.
2     ! RPS Planning Factors Doc.      #12    ! RPS Resource Output Doc.
3     ! RPS Phased Output Doc.         #13  , ! RPS Pipeline Structure Doc.
4     ! RPS Parameters Doc.            #14    ! RPS Terms & Definitions Doc.
5     ! RPS Systems Doc.               #      !    CONTROL OPTIONS,
                                        #S     ! Select All Documentation Files
                                        #C     ! Clear Selected Doc. Files
                                        #      !
                                        #P     ! Print Selected Doc. Files
                                        #●     ! Return to Special Support Menu


                                        Select desired documentation file:  ##



Touch RECALL to return to SPECIAL SUPPORT
```

OPTION 2, RESET BUSY FLAG(.S). Selecting Option 2, Reset RPS Busy Flag('s), from the RPS Special Support Menu will cause the screen to display:

```
Resource Planning System:  RESET BUSY FLAGS                08/10/81  S:  2




                         Options

                            1.     All Flags
                          2  .    One Flag

                          ●     Return to Previous Menu


                                        Enter Desired Option:  #
```

Selecting option 1 or 2 from this menu will cause the screen to display:.

```
Resource Planning System:  SYSTEM DATA FILE BUSY FLAG RESET    08/10/81  S: 2




+--------------------------------------+---------------------+----------------+
!                                      !                     !                !
!    Subsystem Name                    !    File Name        !    Option   !
+--------------------------------------+---------------------+----------------+
!                                      !                     !                !
!    PTR/Attrition File                !    RPS F1PT         !      N       !
!    Planning Factors File             !    RPS F1PF         !              !
!    Phasing Percentages File          !    RPS F1PP         !              !
+--------------------------------------+---------------------+----------------+
```

This display contains a listing of all the files contained in the RPS program.
It is used by the programmer or user to close any files that may have been
inadvertently left open.

OPTION 3, RESET USER TABLE. Selecting Option 3, Reset User Table, from the
RPS Special Support Menu will cause the screen to display:

```
Resource Planning System:   RESET USER TABLE




    I'm sorry, but only a user using the System ID may execute this program

```

If the System ID has been entered the following display will appear:

```
Resource Planning System:   RESET USER TABLE              08/10/81   S: 2

*    This program will reset the user access table for ALL users of
*    the system. Because of the completeness of this procedure, please
*    go tell any other users to end their session before you continue
*    with this program.



     Please enter New Override Password: ########




                              NOTE

     Having to reset the user access table should not become normal procedure.
     If you find that you are using this option often, it may be an indication of
     a more serious problem.
     Please review your operating procedure and be sure you always return to the
     MASTER MENU and execute the option 'End of Session.'.
```

This display allows the user to reset the entire user table and should be
used with extreme caution. After the New Override Password is entered the
screen will display:

```
Resource Planning System:   RESET USER TABLE              08/10/81  S: 2

Option: (R-reset, C-change addresses, S-skip sta., E-skip remaining sta.)?#

Station: 1 (.no user. )  ID      FILE NAME       ADDRESS TYPE
                          1                          DATA
                          2                          DATA
                          3                          DATA
                          4                          DATA
                          5                          DATA
                          6                          DATA
                          7                          DATA
                          8                          DATA
                          9                          DATA
                         10                          DATA
                         11                          DATA
                         12                          DATA
                         13                          DATA
                         14                          DATA
                         15                          DATA
                         16                          DATA
```

The user may now select the station(s) to be reset.

OPTION 4, REINITIALIZE FILES. Selecting Option 4, Reinitialize Files, from the RPS Special Support Menu will cause the following display to appear.

```
                  RPS:   SYSTEM DATA FILE INITIALIZATION

   Subsystem Name              Filename   Key    Type       Size    Address

PTR/ATTRITION FILE:            RPS F1PT    1    KFAM 7      1000     /D32
PLANNING FACTORS FILE:         RPS F1PF    1    KFAM 7      1000     /D32
PHASING PERCENTAGES FILE:      RPS F1PP    1    KFAM 7      1000     /D32
PHASED OUTPUT FILE:            RPS F1PH    1    KFAM 7      1000     /D32
RESOURCE OUTPUT FILE:          RPS F1RO    1    KFAM 7      1000     /D32
SQUADRON TABLE:                RPS@VST     0    STANDARD    200      /D32
RES. OUTPUT FILE TABLE:        RPS@ROFT    0    STANDARD    6        /D32


            * * Enter "GO" to start initializing procedures * *

!file name!key!type!sctr/rec!rec len!blk fctr!key len!strt key!kfam ver!
!RPS F1PT!   1  !  M  !   2    !  1   !  1  ! 8 !- 3  !  7  !
```

This subsystem is used to initialize all of the system data key files and help files. It must be executed when the system is originally set up. The help files should not have to be initialized during subsequent program runs, however, depending on data requirements it may be necessary to reinitialize the RPS Data Files.

MAINTAIN SYSTEM TABLES (MASTER RPS MENU OPTION 1)

Figure 12 shows the various options available to the user of the RPS Maintain System Tables Subsystem.

Selecting Option 1, Maintain System Tables Subsystem from the MASTER RPS MENU will cause the system to display:

```
        We are now on our way to the next subsystem of the
        RESOURCE PLANNING SYSTEM.
```

which will be immediately followed by:

```
Resource Planning System:  MAINTAIN SYSTEM TABLES SUBSYSTEM MENU   08/10/81 S:  2


              Option!        Available Options
                    !
                    !
              1     !  Maintain Pipeline Structure Table
              2     !  Input/Edit PTR file
              3     !  Input/Edit Phasing Percentages file
              4     !  Input/Edit Planning Factors file
                    !
                    !
              •     !  Return to MASTER RPS MENU
                    !

                                          Enter Desired Option:  #
```

OPTION 1, MAINTAIN PIPELINE STRUCTURE TABLE. Selecting Option 1 from this menu
will result in the following display:

```
    We are now on our way to the next subsystem of
    the RESOURCE PLANNING SYSTEM.
```

which will be immediately followed by:

```
                    ┌─────────────────────────┐
                    │     Maintain System     │
                    │         Tables          │
                    │ (Master RPS Menu Option 1)│
                    └─────────────────────────┘
          ┌──────────┬──────────┼──────────┬──────────┐
┌──────────────┐┌──────────────┐┌──────────────┐┌──────────────┐┌──────────────┐
│Maintain Pipeline││Input/Edit PTR ││Input/Edit Phasing││Input/Edit Planning││Return to Master│
│Structure Table ││File           ││Percentages File  ││Factors File      ││RPS Menu        │
│      Option 1  ││      Option 2 ││      Option 3    ││      Option 4    ││      Option ●  │
└──────────────┘└──────────────┘└──────────────┘└──────────────┘└──────────────┘
```
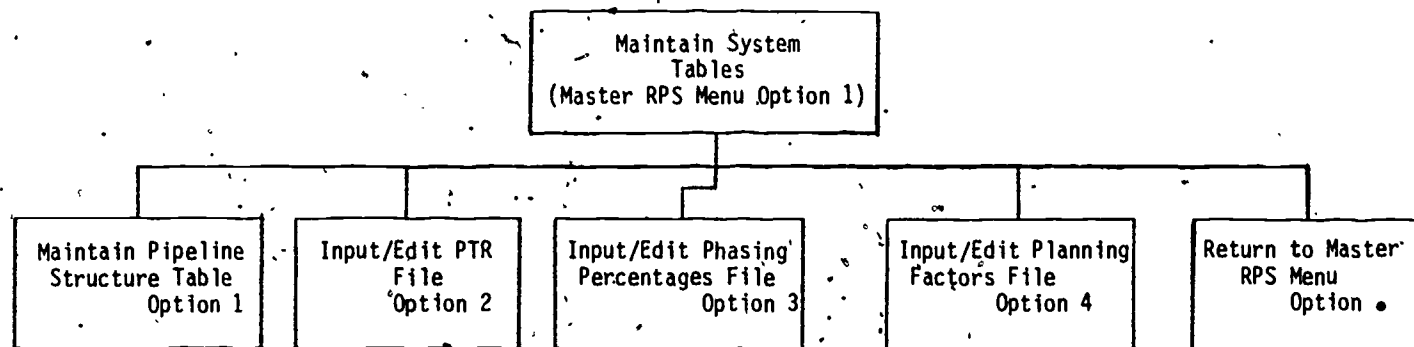
Figure 12. Maintain System Tables Subsystem

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```
Resource Planning System:  PIPELINE STRUCTURE TABLE          S:  2
+--------------------------------------------------------------+
!Record!TRAINING! Pipeline !    TRAINING   !  SQUAD-!
! No.  ! PIPELINE! ID ! POS.! WING ! PHASE !  RON  !
!  1   !    A    !    ! 1   !      !   A   !  RVAW  !
!  2   !    A    !    ! 3   !  6   !   I   !  VT-10 !
!  3   !    A    !    ! 4   !  6   !   P   !  VT-10 !
!  4   !    A    !    ! 5   !      !   C   !  API   !
!  5   !    A    !    ! 5   !      !   D   !  API   !
!  6   !    A    !    ! 6   !      !   F   !  OFF   !
!  7   !    A    !    ! 6   !      !   O   !  AOCS  !
!  8   !    A    !    ! 6   !      !   E   !  N-OFF !
!  9   !    E    ! 4  ! 1   !  4   !   A   !  VT-28 !
! 10   !    E    ! 4  ! 1   !  4   !   A   !  VT-31 !
! 11   !    E    ! 4  ! 3   !  1   !   I   !  VT-19 !
! 12   !    E    ! 4  ! 3   !  1   !   I   !  VT-9  !
! 13   !    E    ! 4  ! 3   !  2   !   I   !  VT-23 !
! 14   !    E    ! 4  ! 3   !  3   !   I   !  VT-26 !
! 15   !    E    ! 4  ! 4   !  4   !   P   !  VT-27 !
+--------------------------------------------------------------+
Options:    RECALL-Previous menu or field:   ,      RETURN-Next field;
N-Next Page:    B-Previous Page;  >-Right screen;     <-Left screen;
S-Save table;   H-Display help;   P-Print table;   rec #-of line to edit: ###
```

Pressing < to display the left portion of the screen will cause the following to appear:

```
Resource Planning System:  PIPELINE STRUCTURE TABLE          S:  2
+--------------------------------------------------------------+
!Record!        Distribution Rates For:
! No. ! Navy !Marine! USCG ! FMS  !OTHER ! ---- ! ---- ! ---- ! ---- ! ---- !
!  1  ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 !
!  2  ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 !
!  3  ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 !
!  4  ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 !
!  5  ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 ! 0.50 !
!  6  ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 !
!  7  ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 !
!  8  ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 ! 1.00 !
!  9  ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 !
! 10  ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 !
! 11  ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 !
! 12  ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 ! 0.12 !
! 13  ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 !
! 14  ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 ! 0.38 !
! 15  ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 ! 0.00 !
+--------------------------------------------------------------+
Options:    RECALL-Previous menu or field;          RETURN-Next field;
N-Next Page;    B-Previous Page;  >-Right screen;      <-Left screen;
S-Save table;   H-Display help;   P-Print table;   rec #-of line to edit: ###
```

Pressing > to display the right portion of the screen will cause the following to appear:

```
Resource Planning System:  PIPELINE STRUCTURE TABLE

+---------------------------+
!Record!  UIC . ! AG !  SAG  !
!  No. !
!   1  !         !    !      -!
!   2  !         !    !       !
!   3  !         !  . !       !
!   4  !-        !    !       !
!  '5  !         !    !       !
!   6  !  ~      !    !       !
!   7  !         !    !       !
!   8  !      /\ !    !       !
!   9  !         !    !       !
!  10  !         !    !       !
!  11  !         !    !       !
!  12  !         !    !       !
!  13  !         !  ! !       !
!  14  !         !    !       !
!  15  !         !    !    .  !
+---------------------------+
Options:    RECALL-Previous menu or field;        RETURN-Next field;
N-Next Page;     B-Previous Page;   >-Right screen;       <-Left screen;
S-Save table;    H-Display help;     P-Print table;    rec #-of line to edit: ###
```

To enter a new record or edit the existing record the user enters the record number and presses RETURN. The cursor will immediately appear at the correct position and entering/editing can commence. A help file is provided to aid the user in filling out the table. It provides brief explanations of the data items contained in the table and, in some instances, provides the data elements that are used in constructing the table. It should be noted that the help files are provided as an aid to the user and consequently they can be customized to suit his/her specific needs. Entering "HELP" will cause the screen to display the following three screens of information.

```
                              HELP SCREEN                                    α

TRAINING PIPELINE CODES

  S-STRIKE      H-HELICOPTER      M-MARITIME      P-PHASED MARITIME
  E-E2/C2 (MARITIME)     N-NAV      A-ATD    T-TN      R-RIO      O-OJN

PIPELINE ID

  1        2        3        4        5        6

PIPELINE POSITION - Defines the Structure of the Pipeline.
               See Graphs for actual structure !!!

ex.     +----+    +----+    +----+    +----+    +----+
        ! 6 !----! 5 !----! 4 !----! 3 !----! 1 !
        +----+    +----+    +----+  ! +----+    +----+
                                    !
                                    ! +----+    +----+
                                    ! ! 2 !----! 1 !
                                      +----+    +----+

Press any key to continue Help File or RECALL to return to Edit Mode.#
```

```
                              HELP SCREEN

TRAINING WINGS

  1        2        3        4        5        6

TRAINING PHASE

  A-ADVANCED    T-TRANSITION    I-INTERMEDIATE    P-PRIMARY    N-Intermediate
                                                                (Helo & Mar)
  C-AOCS                  D-API              E-NON OFFICER   F-OFFICER

SQUADRON NAME:  5 CHARACTER FIELD USED FOR INSERTING SQUADRON ID, i.e., VT-2,
                VT-3, VT-28.

Press any key to continue Help File or RECALL to return to Edit Mode.#
```

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```
┌──────────────────────────────────────────────────────────────────┐
│ ○                          HELP. SCREEN                            │
│ DISTRIBUTION RATES                                                 │
│                                                                    │
│   Used to calculate PTRs.  This is a percentage.                   │
│                                                                    │
│                                                                    │
│ UIC - Squadron Unit Identification Code                            │
│                                                                    │
│ AG  - Squadron Activity Group                                      │
│                                                                    │
│ SAG - Squadron Sub-Activity Group                                  │
│                                                                    │
│                                                                    │
│                                                                    │
│                                                                    │
│                                                                    │
│                                                                    │
│                                                                    │
│ Press any key to return to Edit Mode.#                             │
└──────────────────────────────────────────────────────────────────┘
```

OPTION 2, INPUT/EDIT to PTR File. · Selecting Option 2 of the Maintain
System Tables Subsystem will cause the program to display:

```
┌──────────────────────────────────────────────────────────────────┐
│ Resource Planning System:   PTR INPUT/EDIT MENU        08/10/81  S:2│
│                                                                    │
│                     OPTIONS                                        │
│                                                                    │
│                       1          ADD RECORDS                       │
│                       2          EDIT RECORDS                      │
│                       3          DELETE RECORDS                    │
│                       •          RETURN TO PREVIOUS MENU           │
│                                                                    │
│                                  ENTER DESIRED OPTION:             │
└──────────────────────────────────────────────────────────────────┘
```

Selecting Option 1, 2, or 3 from the PTR INPUT/EDIT MENU will cause the program to display the next five displays in the sequence presented. As the user enters the particular KEY, in this instance, P for PILOT or N for NFO, the new display information will appear.

```
Resource Planning System:  KEY ENTRY SCREEN                08/10/81  S:2

                              ** ADD      MODE **
           Enter the components of the key.

-type training----

                          (Enter . to Select Another Mode)




                         KEY:

                              . OPTIONS

               ┌─────────────────────────────────────────┐
               │                                          │
               │   P-PILOT          N-NFO                 │
               │                                          │
               │                                          │
               │                                          │
               └─────────────────────────────────────────┘
```

```
Resource Planning System:  KEY ENTRY SCREEN                08/10/81  S:2

                              ** ADD     MODE **
           Enter the components of the key.

                     P
    -pipeline---------              (Enter . to Select Another Mode)




                              KEY:  P

                                 OPTIONS

      ┌─────────────────────────────────────────────────────────────────────┐
      │ S-STRIKE   M-MARITIME   H-HELICOPTER   P-PHASED MARITIME   E-E2/C2   (MARITIME) │
      └─────────────────────────────────────────────────────────────────────┘
```

After the user inserts an S the following appears:

```
Resource Planning System:  KEY ENTRY SCREEN                08/10/81  S:2

                              ** ADD     MODE **
           Enter the components of the key.

                     P
                     S            (Enter .  to Select Another Mode)
    -pipeline ID------  #




                              KEY:  PS

                                 OPTIONS

            ┌─────────────────────────────────────────────────────────┐
            │    PIPELINE ID's  :    1     2     3     4     5     6    │
            └─────────────────────────────────────────────────────────┘
```

After the user inserts a 1 the following appears:

39
46

```
Resource Planning System:  KEY ENTRY SCREEN                   08/10/81   S:  2

                             ** ADD     MODE **
            Enter the components of the key.

                      P
                      S           (Enter •  to Select Another Mode)
                      1
-training phase---    #




                              KEY:  PS1

                              OPTIONS.

 _____
| N-INTERMEDIATE (HELO & MAR)      P-PRIMARY    I-INTERMEDIATE    T-TRANSITION |
| A-ADVANCED      C-AOCS           D-API        E-NON-OFFICER     F-OFFICER    |
 _____
```

After the user inserts an A the following appears:

```
Resource Planning System:  KEY ENTRY SCREEN                   08/10/81   S:  2

                             ** ADD     MODE **
            Enter the components of the key.

                      P
                      S            (Enter •  to Select Another Mode)
                      1
                      A
-squadron---------



                              KEY:  PS1A

 _____
|                            VALID SQUADRONS                              |
| VT-7                                                                    |
 _____
```

After the final key (VT-7) is entered, the following display appears:

```
Resource Planning System:  PTR INPUT/EDIT        page 1          08/10/81  S:  2
       PIPELINE P      DIVISION S      PIPE.ID 1    LEVEL A       SQUADRON VT-7
              LINE   FY 80     FY 81     FY 82     FY 83    FY 84     FY 85     FY 86
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
!USN    ! PTR ! 1 !   74  !   69  !   79  !   79  !   79  !    79  !   79   !
!       ! ATR ! 2 ! 4.00  ! 4.00  ! 4.00  ! 4.00  ! 4.00  !  4.00  ! 4.00   !
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
!USMC   ! PTR ! 3 !   46  !   48  !   49  !   49- !   49  !   49   !   49   !
!       ! ATR ! 4 ! 4.00  ! 4.00  ! 4.00  ! 4.00  ! 4.00  ! 4.00   ! 4.00   !
+=======+=====+====+=======+=======+=======+=======+=======+========+========+



--------------------------Options------------------------------------------------
                                                        S:  SAVE    RECORD
                                                        A:  ABORT   RECORD
C:  SEE ALL             Enter Option:  ##               D:  DUPLICATE ATTRITIONS
P:  PRINT
```

Entering C, from the prompt line will cause the following display to appear:

```
Resource Planning System:  PTR INPUT/EDIT        page 1          08/10/81  S:  2
       PIPELINE P      DIVISION S      PIPE.ID 1    LEVEL A       SQUADRON VT-7
              LINE   FY 80     FY 81     FY 82     FY 83    FY 84     FY 85     FY 86
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
!USN    ! PTR ! 1 !   74  !   69  !   79  !   79  !   79  !   79   !   79   !
!       ! ATR ! 2 ! 4.00  ! 4.00  ! 4.00  ! 4.00  ! 4.00  ! 4.00   ! 4.00   !
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
!USMC   ! PTR ! 3 !   46  !   48  !   49  !   49  !   49  !   49   !   49   !
!       ! ATR ! 4 ! 4.00  ! 4.00  ! 4.00  ! 4.00  ! 4.00  ! 4.00   ! 4.00   !
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
!USCG   ! PTR ! 5 !    0  !    0  !    0  !    0  !    0  !    0   !    0   !
!       ! ATR ! 6 ! 0.00  ! 0.00  ! 0.00  ! 0.00  ! 0.00  ! 0.00   ! 0.00   !
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
!FMS    ! PTR ! 7 !    0  !    0  !    0  !    0  !    0  !    0   !    0   !
!       ! ATR ! 8 ! 0.00  ! 0.00  ! 0.00  ! 0.00  ! 0.00  ! 0.00   ! 0.00   !
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
!OTHER  ! PTR ! 9 !    0  !    0  !    0  !    0  !    0  !    0   !    0   !
!       ! ATR ! 10! 0.00  ! 0.00  ! 0.00  ! 0.00  ! 0.00  ! 0.00   ! 0.00   !
+=======+=====+====+=======+=======+=======+=======+=======+========+========+
------------------------------Options-----------------------------------------
                                                        S:  SAVE    RECORD
X:  PAGE                                                 A:  ABORT   RECORD
C:  NON ZERO            Enter Option:  ##                D:  DUPLICATE ATTRITIONS
Z:  PRINT
```

OPTION 3, INPUT/EDIT Phasing Percentages File. Selecting Option 3 from
the Maintain System Tables Menu will cause the program to display:

```
Resource Planning System:   PHASING PERCENTAGES INPUT/EDIT MENU 08/10/81   S:  2



              OPTIONS

                  1         ADD RECORDS
                  2         EDIT RECORDS
                  3         DELETE RECORDS
                  •        RETURN TO PREVIOUS MENU\




                                                      Enter Desired Option:  #
```

     Selecting option 1, 2, or 3 from the Phasing Percentages Input/Edit
Menu will cause the program to display the next four displays in the
sequence presented. As the user enters the required KEY the new display
information will automatically appear.

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                              ** ADD      MODE **
            Enter the components of the key.

-type training----   #

                            (Enter •  to Select Another Mode)




                            . KEY:

                                OPTIONS


    ┌──────────────────────────────────────────────────────────────────┐
    │            P-PILOT            N-NFO                                 │
    └──────────────────────────────────────────────────────────────────┘
```

After entering a P the following appears:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                            ** ADD      MODE **
            Enter the components of the key.

                      P
-pipeline---------   #        (Enter •  to Select Another Mode).



                            KEY:  P

                                OPTIONS


    ┌──────────────────────────────────────────────────────────────────────┐
    │ S-STRIKE   M-MARITIME   H-HELICOPTER   P-PHASED MARITIME   E-E2/C2  (MARITIME)│
    └──────────────────────────────────────────────────────────────────────┘
```

Upon entering an S the following display appears:

43

50

```
Resource Planning System:  KEY ENTRY SCREEN                08/10/81  S:  2

                         ** ADD     MODE **
            Enter the components of the key.


                    P
                    S
                    #           (Enter . to Select Another Mode)
-pipeline id------




                         KEY:  PS

                              OPTIONS


  ┌─────────────────────────────────────────────────────────────────┐
  │        PIPELINE ID's :    1    2    3    4    5    6              │
  └─────────────────────────────────────────────────────────────────┘
```

After entering a 1 the following appears:

```
Resource Planning System:  KEY ENTRY SCREEN                08/10/81  S:  2

                         ** ADD     MODE **
            Enter the components of the key.


                    P
                    S           (Enter . to Select Another Mode)
                    1
-training phase---




                         KEY:  PS1

                              OPTIONS


  ┌─────────────────────────────────────────────────────────────────┐
  │  N-INTERMEDIATE (HELO & MAR)   P-PRIMARY   I-INTERMEDIATE  T-TRANSITION │
  │  A-ADVANCED     C-AOCS         D-API       E-NON-OFFICER   F-OFFICER   │
  └─────────────────────────────────────────────────────────────────┘
```

After the final key is entered the following display appears:

44

51

```
Resource Planning System:  PHASING PERCENTAGES TABLE          08/10/81  S:  2
+=====+================+=========+================+==================+=====+
!=====! TYPE TRAINING  !·PIPELINE !   PIPE ID     ! TRAINING  LEVEL  !=====!
!=====!        P       !    S     !      1        !        A         !=====!
+=====+================+=========+================+==================+=====+

+=====+=+========+=+=================+=========+=========+=+=========+=========+=========+
! LINE !=! FISCAL !=!       IN TRAINING  %          !=!      COMPLETIONS ·%            .
! NO.  !=!  YEAR  !=!  YR1  !   YR2   !   YR3   !=!  YR1  !   YR2   !   YR3   !
!      !=+========+=+========+=========+=========+=+========+=========+=========+
!  1   !=!   80   !=!  80.00 !   20.00 !   0.00  !=! 100.00 !   0.00  !   0.00  !
! ·2   !=!   81   !=!  80.00 !   20.00 !   0.00  !=! 100.00 !   0.00  !   0.00  !
!  3   !=!   82   !=1  80.00 !   20.00 !   0.00  !=! 100.00 !   0.00  ! ¡ 0.00  !
!  4   !=!   83   !=!  80.00 !   20.00 !   0.00  !=! 100.00 !   0.00  !   0.00  !
!  5   !=!   84   !=!  80.00 !   20.00 !   0.00  !=! 100.00 !   0.00  !   0.00  !
!  6   !=!   85   !=!  80.00 !   20.00 !   0.00  !=! 100.00 !   0.00  !   0.00  !
!  7   !=!.  86   !=!  80.00 !   20.00 !   0.00  !=!.100.00 !   0.00  !   0.00  !
+=======+=+========+=+========+=========+=========+=+========+=========+=========+



                ENTER OPTION (RECALL, RETURN, line #, Save, Help, Print):
```

OPTION 4, INPUT/EDIT PLANNING FACTOR FILE. Selecting Option 4 from the
Maintain System Tables Menu will result in the following display:

```
Resource Planning System:  PLANNING FACTOR INPUT/EDIT MENU     08/10/81  S:  2




                  OPTIONS

                      1      ADD RECORDS
                      2      EDIT RECORDS·
                      3      DELETE RECORDS
                      4      RETURN TO PREVIOUS MENU




                                     Please enter desired option or RETURN:  #
```

Selecting option 1, 2, or 3 from the Planning Factor Input/Edit Menu will cause the program to display the next seven displays in the sequence presented. As the user enters the desired <u>KEY</u> the new display information will appear automatically.

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                            ** EDIT    MODE **
             Enter the components of the key..

-type training----
                            (Enter • to Select Another Mode)




                            KEY:

                                 OPTIONS.

                    ┌──────────────────────────────────────┐
                    │      P-PILOT .           N-NFO  .      │
                    └──────────────────────────────────────┘
```

Upon selecting a P the screen will display:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

             Enter the components of the key

                    P
-pipeline---------          (Enter • to Select Another Print Mode)





                            KEY:  P

                                 OPTIONS

S-STRIKE    M-MARITIME    H-HELICOPTER    P-PHASED MARITIME    E-E2/C2   (MARITIME)
```

After entering an S the screen will display:

```
Resource Planning System:  KEY ENTRY SCREEN              08/10/81   S:  2

        Enter the components of the key

                P
                S           (Enter • to Select Another Print Mode)
-pipeline id------




                      KEY:  PS

                            OPTIONS

              ┌─────────────────────────────────────────┐
              │  PIPELINE ID's  :   1   2   3   4   5   6 │
              └─────────────────────────────────────────┘
```

Inserting a 1 will cause the screen to display the following:

```
Resource Planning System:  KEY ENTRY SCREEN              08/10/81   S:  2

        Enter the components of the key

                P
                S           (Enter • to Select Another Print Mode)
                1
-training phase---




                      KEY:  PS1

                            OPTIONS

┌──────────────────────────────────────────────────────────────────────────┐
│ N-INTERMEDIATE (HELO & MAR)    P-PRIMARY    I-INTERMEDIATE    T-TRANSITION  │
│ A-ADVANCED        C-AOCS       D-API        E-NON-OFFICER     F-OFFICER     │
└──────────────────────────────────────────────────────────────────────────┘
```

54

Selecting an A will cause the screen to display:

```
Resource Planning System:  KEY ENTRY SCREEN                     08/10/81  S:  2

                          ** EDIT     MODE **
       Enter the components of the key.

                   P
                   S            (Enter •  to Select Another Mode)
                   1
                   A
-squadron---------



                        KEY:  PS1A

                        VALID SQUADRONS

       VT-7
```

After entering VT-7 the following display appears:

```
Resource Planning System:  KEY ENTRY SCREEN                     08/10/81  S:  2

                          ** EDIT     MODE **
       Enter the components of the key.

                   P
                   S            (Enter •  to Select Another Mode)
                   1
                   A
                   VT-7
-aircraft/siml:---

                        KEY:  PS1AVT-7

                        OPTIONS

       Enter the 5-character Aircraft or Simulator Number
```

Entering the proper aircraft/simulator number (in this instance T-2C) the following display appears:

```
Resource Planning System:  KEY ENTRY SCREEN              08/10/81  S:  2

                         ** EDIT    MODE **
         Enter the components of the key.


              P
              S            (Enter ● to Select Another Mode)
              1
              A
              VT-7
              T-2C
-mil. branch------

                              KEY:  PS1AVT-7T-2C

                                   OPTIONS

    ┌─────────────────────────────────────────────────────────────────┐
    │    N-USN        M-USMC        C-USCG       F-FMS        O-OTH     │
    └─────────────────────────────────────────────────────────────────┘
```

    After the final KEY ENTRY SCREEN input (N) is made the following
display will appear:

```
┌─────────────────────────────────────────────────────────────────────────┐
│  Resource Planning System:  PLANNING FACTORS           08/10/81  S:  2    │
│                                                                           │
│                        KEY:  PS1AVT-7T-2CN                                │
│                                                                           │
│   ┌───────────────────────────────────────────────────────────────────┐ │
│   │     First Year Aircraft Available      Last Year Aircraft Available │ │
│   │   1           81                                    86              │ │
│   └───────────────────────────────────────────────────────────────────┘ │
│   ┌───────────────────────────────────────────────────────────────────┐ │
│   │   Student Factors                Instructor Factors                │ │
│   │   Syllabus        %      Total    %     Contact  Annual   Hours/   │ │
│   │   Hours   Weeks  Attr   Hours   Avail   Time     Util     Student  │ │
│   │ 2  0.0    0.00   0.00    0.00    0.00    0.00       0       0.00    │ │
│   └───────────────────────────────────────────────────────────────────┘ │
│   ┌───────────────────────────────────────────────────────────────────┐ │
│   │          Aircraft and Simulator Factors                            │ │
│   │                                                                    │ │
│   │   Squad    %        Sortie    T-A-T  Annual  Hours/                │ │
│   │   Maint   Avail    Length            Util    Student               │ │
│   │ 3  0.00   0.00      0.00      0.00      0     0.00                  │ │
│   └───────────────────────────────────────────────────────────────────┘ │
│   ┌───────────────────────────────────────────────────────────────────┐ │
│   │                        Other Factors                               │ │
│   │                                                                    │ │
│   │ Weather  Overhead  Civ    I.U.T.    Admin   Maint    NAS   Enlisted  Other │
│   │ Factor   Factor   Assign  Overhead  Av.    Support  Maint  Support  Support│
│   │  0.00     0.00      0      0.00      0        0      0.00     0       0    │
│   └───────────────────────────────────────────────────────────────────┘ │
│        Enter Option (RECALL,RETURN,line #,Save,Help,Print,Duplicate):     │
└─────────────────────────────────────────────────────────────────────────┘
```

PERFORM UPDATE CALCULATIONS SUBSYSTEM (MASTER RPS MENU OPTION 2)

Figure 13 shows the various systems available to the user of the
Perform Update Calculations Subsystem

Selecting Option 2, Perform Update Calculations Subsystem, from the
MASTER RPS MENU will result in the following display:

```
┌─────────────────────────────────────────────────────────────────────────┐
│                                                                           │
│   We are now on our way to the next subsystem of the RESOURCE             │
│   PLANNING SYSTEM.                                                        │
│                                                                           │
└─────────────────────────────────────────────────────────────────────────┘
```

```
                    ┌─────────────────────────┐
                    │      CALCULATIONS        │
                    │       SUBSYSTEMS         │
                    │                          │
                    │ (MASTER RPS MENU OPTION 2)│
                    └─────────────────────────┘
                                │
         ┌──────────────────────┼──────────────────────┐
         │                      │                       │
┌─────────────────┐  ┌─────────────────────┐  ┌──────────────────┐
│ CALCULATE PTR FILE│  │ CALCULATE RESOURCE  │  │ RETURN TO MASTER │
│                 │  │ OUTPUT FILE         │  │ RPS MENU         │
│       OPTION 1  │  │           OPTION 3  │  │       OPTION ●   │
└─────────────────┘  └─────────────────────┘  └──────────────────┘
                      │
          ┌───────────────────────┐
          │ CALCULATE PHASED PTRs  │
          │                        │
          │          . OPTION 2    │
          └───────────────────────┘
```
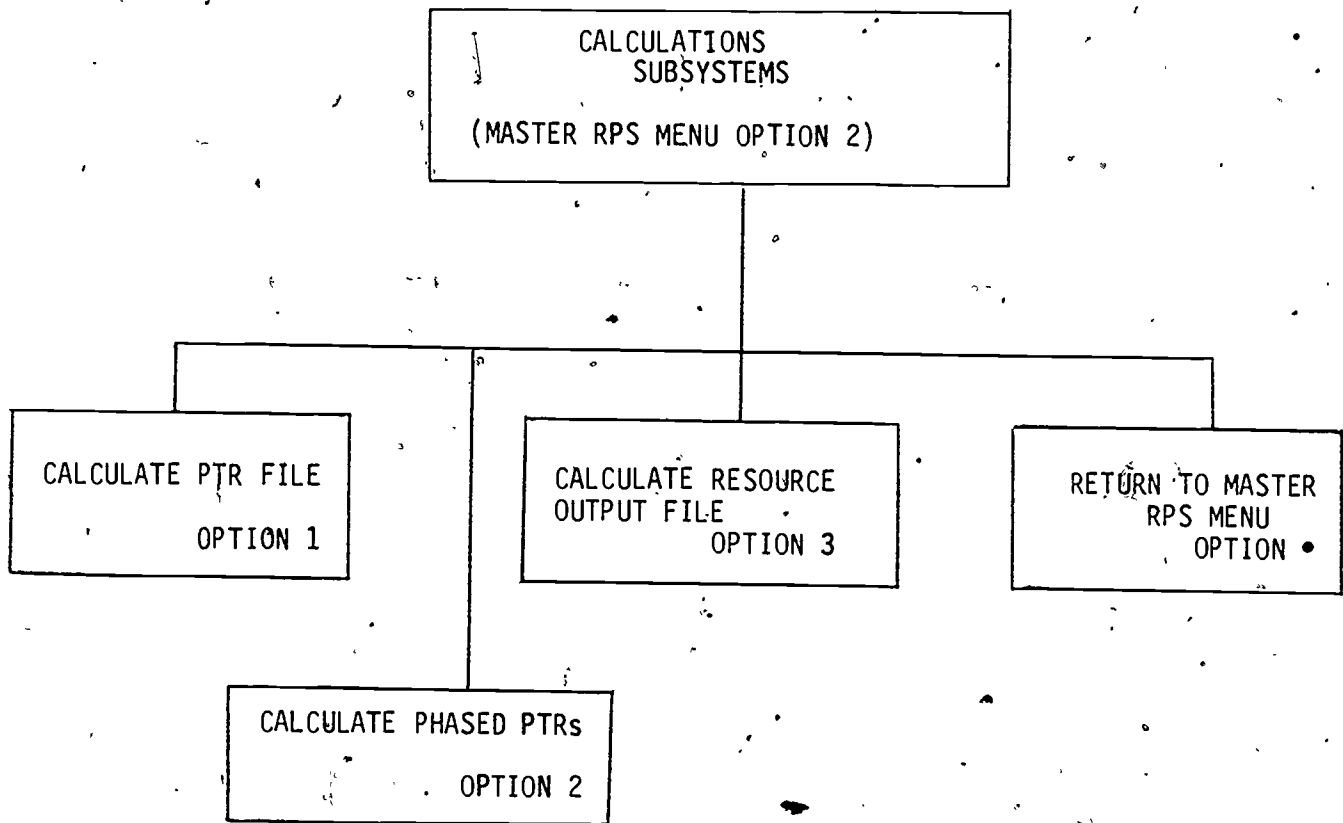
Figure 13. Perform Update Calculations Subsystem

5158

which will be immediately followed by:

```
Resource Planning System:   Calculations Subsystem Menu        08/10/81  S:  2



        Option!          Available Options
              !
              !
        1     !  Calculate PTR File
        2     !  Calculate Phased PTRs
        3     !  Calculate Resource Output File
        •     !  Return to MASTER RPS MENU



                                          Enter Desired Option:  #
```

OPTION 1, CALCULATE PTR FILE. Selecting Option 1 from this menu will cause the screen to display:

```
        PROCESSING  _____
```

This display will remain on the screen, with only the pipeline KEY changing, until the entire PTR file is recalculated.

OPTION 2, CALCULATE PHASED PTRs. Selecting Option 2 will cause the screen
to display:

```
Resource Planning System:   CALCULATE PHASED PTR FILE            08/10/81 S:   2


                                 NOTICE

         Calculation of new phased PTR's will completely destroy the
         contents of the previous phased PTR file (RPS F1PH).












                                   Please Enter "GO" to CONTINUE or RECALL:##
```

Upon entering "GO" the following display will appear:

```
              Initialization is now in progress
```

which will be immediately followed by:

```
              Processing PTR record with key:
```

This display will remain on the screen, with only the pipeline KEY
changing, until the entire Phased PTR file is recalculated.

OPTION 3, CALCULATE RESOURCE OUTPUT FILE. Selecting Option 3 will cause
the screen to display:

```
Resource Planning System:   CALCULATE RESOURCE OUTPUT FILE          08/10/81 S:  2


        ENTER ---
              the Resource Output File Id
              RETURN for default file (RPS.FIRO)
             .E to edit current table of IDs

                       ###############################
```

Upon entering the desired Resource Output File ID, the following notice will appear:

```
Resource Planning System:  CALCUALTE RESOURCE OUTPUT FILE            08/10/81  S:  2

                                NOTICE

        Calculation of new resources will completely destroy the
        contents of the previous resource file (RPS FIRO).




                                    Please Enter "GO" to CONTINUE or RECALL:##
```

Upon entering "GO" the following display information will appear.

```
        Initializing Now In Progress...
```

-which will be followed immediately by:

```
┌────────────────────────────────────────┐
│        Processing Key:----------------   │
└────────────────────────────────────────┘
```

This display will remain on the screen, with only the pipeline KEY changing, until the entire Resource Output File is calculated.

REPORT GENERATION SUBSYSTEM (MASTER RPS MENU OPTION 3)

Figure 14 shows the options available to the user of the Report Generation Subsystem.

Selecting Option 3, Report Generation, from the MASTER RPS MENU, will result in the following display:

```
┌────────────────────────────────────────────────────┐
│  We are now on our way to the next subsystem          │
│  of the RESOURCE PLANNING SYSTEM.                     │
└────────────────────────────────────────────────────┘
```

which will be immediately followed by:

```
┌──────────────────────────────────────────────────────────────────────┐
│ Resource Planning System:   Report Generation Menu       08/10/81 S  2 │
│                                                                        │
│         Option!         Available Options                              │
│                !                                                       │
│                !                                                       │
│          1     !   Print PTR File                                      │
│                !                                                       │
│          2     !   Print Phasing Percentages File                      │
│                !                                                       │
│          3     !   Print Phased PTR File                               │
│                !                                                       │
│          4     !   Print Planning Factors                              │
│                !                                                       │
│          5     !   Print Planning Factor Keys                          │
│                !                                                       │
│          6     !   Print Resource Output Reports                       │
│                !                                                       │
│          7     !   Print Report (From Calculated PTR File)             │
│                                                                        │
│          •     !   Return to MASTER RPS MENU                           │
│                                                                        │
│                                        Enter Desired Option:  #        │
└──────────────────────────────────────────────────────────────────────┘
```

```
                          ┌─────────────────────────────┐
                          │         Report -            │
                          │   Generation Subsystem      │
                          │ (Master RPS Menu Option 3)  │
                          └──────────────┬──────────────┘
                                         │
        ┌────────────────────────────────┼────────────────────────────────┐
        │                                │                                │
┌───────────────────┐                    │                    ┌───────────────────┐
│  Print PTR File   │                    │                    │  Print Planning   │
│     Option 1      │────────────────────┼────────────────────│  Factors Keys     │
│                   │                    │                    │       Option 5    │
└───────────────────┘                    │                    └───────────────────┘
                                         │
┌───────────────────┐                    │                    ┌───────────────────┐
│  Print Phasing    │                    │                    │  Print Resource   │
│ Percentages File  │────────────────────┼────────────────────│  Output Reports   │
│     Option 2      │                    │                    │       Option 6    │
└───────────────────┘                    │                    └───────────────────┘
                                         │
┌───────────────────┐                    │                    ┌───────────────────┐
│  Print Phased     │                    │                    │  Print Report     │
│  PTR File         │────────────────────┼────────────────────│ (From Calculated  │
│     Option 3      │                    │                    │   PTR File)       │
└───────────────────┘                    │                    │       Option 7    │
                                         │                    └───────────────────┘
┌───────────────────┐                    │                    ┌───────────────────┐
│  Print Planning   │                    │                    │ Return to Master  │
│  Factors          │────────────────────┴────────────────────│ RPS Menu          │
│     Option 4      │                                         │       Option      │
└───────────────────┘                                         └───────────────────┘
```
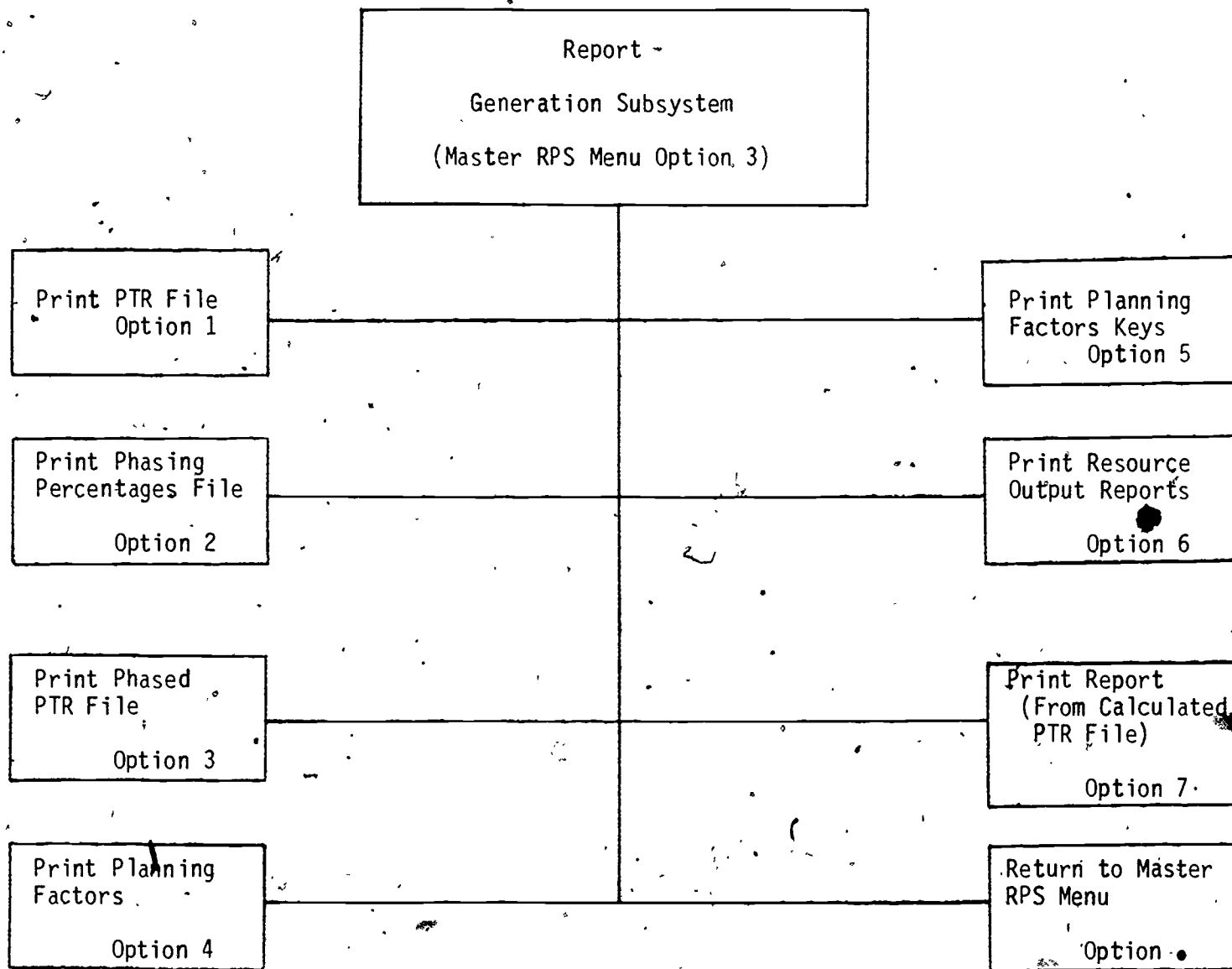
Figure 14.   Report Generation Subsystem

OPTIONS 1, 2, 3, 4 PRINT FILES. Selecting Options 1, 2, 3, or 4 from the
Report Generation Menu will cause the program to display the following.

```
Resource Planning System:                              08/10/81 S:  2

                          SELECT SORT ORDER

           OPTIONS                                    ORDER
           AVAILABLE                                  CHOSEN

           Type Training                 1
        B  Training Pipeline             2
        C  Pipeline ID                   3
        D  Pipeline Position             4
        E  Training Wing                 5
        F  Training Phase                6
        G  Squadron                      7
        H  UIC                           8
        I  Activity Group                9
        J  Subactivity Group            10


ENTER- Option Letter, 1 to Clear Sort Order, 2 to Default Options, 0 when done #


              Touch RECALL to return to main Report Menu
```

    This menu allows the user to specify a particular order to sort the
desired file. If the user desires to sort on Squadron first, placing G on
the prompt line will cause the screen to display:

```
Resource Planning System:                                        08/10/81  S:  2

                          SELECT SORT ORDER

          OPTIONS                                              ORDER
          AVAILABLE                                            CHOSEN
     A    Type Training            ############# 1             SQUADRON
     B    Training Pipeline           #          2
     C    Pipeline ID                 #          3
     D    Pipeline Position           #          4
     E    Training Wing               #          5
     F    Training Phase              #          6
                                   ##########    7
     H    UIC                                    8
     I    Activity Group                         9
     J    Subactivity Group                     10


ENTER- Option Letter, 1 to Clear Sort Order, 2 to Default Options, 0 when done


                Touch RECALL to return to main Report Menu
```

After the sort order is selected, pressing "0" will cause the screen to display:

```
PTR File Report:  Qualifications Menu                            08/10/81  S:  2


Do you wish to Qualify the Report on ANY of the items below (Y or N):   N

                    A       TYPE TRNG
                    B       TRNG PIPE
                    C       PIPE ID
                    D       PIPE POS
                    E       TRNG WING
                    F       TRNG PHASE
                    G       SQUADRON
                    H       UIC
                    I       AG
                    J       SAG
```

This Qualifications Menu provides the user with capability to specifically identify those areas of training that are to be printed out.

If the user inserts a Y, indicating a desire to Qualify the Report the following appears:

```
PTR File Report:  Qualifications Menu


    Enter letter of item you wish to Qualify (O=END):  #

                                A      TYPE TRNG
                                B      TRNG PIPE
                                C      PIPE ID
                                D      PIPE POS
                                E      TRNG WING
                                F      TRNG PHASE
                                G      SQUADRON
                                H      UIC
                                I      AG
                                J      SAG
```

If the user selects TRNG PIPE and SQUADRON, for example, the following display appears:

```
        PTR File Report:  Qualifications Menu            08/10/81 S:  2

        TRNG PIPE     #



        SQUADRON
```

This allows the user to insert specifically which pipeline or Squadrons are of interest.

However, if the user inserts an N indicating a desire not to qualify any of the items, the following displays appear. The user must indicate a Beginning Key and an Ending Key. The displays for both Keys are identical.

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                            Beginning Key
            Enter the components of the key in your sort order.  (; to default)

-type training----    #



                            KEY:

                            OPTIONS

  _____
 |                                                                        |
 |                     P-PILOT      N-NFO                                  |
 |                                                                        |
 |_____|

```

Entering a P will cause the screen to display:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                            Beginning Key
            Enter the components of the key in your sort order.  (; to default)

                    P
-pipeline--------- #



                            KEY:

                            OPTIONS

  _____
 |                                                                        |
 | S-STRIKE    M-MARITIME    H-HELICOPTER    P-PHASED MARITIME.  E-E2/C2 (MARITIME)|
 |             R-RIO         T-TN         A-ATD        N-NAVIGATOR      O-OJN      |
 |                                                                        |
 |_____|

```

Inserting an S will cause the screen to display:

```
Resource Planning System: KEY ENTRY SCREEN                    08/10/81  S:  2

                            Beginning Key
        Enter the components of the key in your sort order.  (; to default)

                    P
                    S
-pipeline id------  #




                         KEY:  PS

                            OPTIONS

          ┌──────────────────────────────────────────────────┐
          │        PIPELINE ID's :   1   2   3   4   5   6.    │
          │                                                    │
          └──────────────────────────────────────────────────┘
```

Upon entering a 1 the following screen appears:

```
Resource Planning System:  KEY ENTRY SCREEN                   08/10/81  S:  2

                            Beginning Key
        Enter the components of the key in your sort order.  (; to default)

                    P
                    S
                    1.
-pipeline pos-----  ##




                         KEY:  PS1

                            OPTIONS

          ┌──────────────────────────────────────────────────┐
          │        PIPELINE POS's :   1   2   3   4   5   6    │
          │                                                    │
          └──────────────────────────────────────────────────┘
```

Inserting another 1 will cause the screen to display:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                            Beginning Key
         Enter the components of the key in your sort order.  (; to default)


                    P
                    S
                   ·1
                    1
-training wing----  #





                         KEY: PS11

                              OPTIONS

    ┌──────────────────────────────────────────────────────────────┐
    │                                                                │
    │          TRAINING WINGS:  1  2  3  4  5  6                      │
    │                                                                │
    └──────────────────────────────────────────────────────────────┘
```

Upon entering a 4 the following screen appears:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S: .2

                            Beginning Key
          Enter the components of the key in your sort order.  (; to default)

                    P
                    S
                    1
                    1
                    4
-training phase---

                         KEY:  PS114

                              OPTIONS

    ┌──────────────────────────────────────────────────────────────┐
    │                                                                │
    │ N-INTERMEDIATE (HELO & MAR)      P-PRIMARY    I-INTERMEDIATE    T-TRANSITION │
    │ A-ADVANCED      C-AOCS           D-API        E-NON-OFFICER     F-OFFICER    │
    │                                                                │
    └──────────────────────────────────────────────────────────────┘
```

After inserting an A the following display appears:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                              Beginning Key
          Enter the components of the key in your sort order.  (; to default)

              ℓ              P
                             S
                             1
                             1
                             4
                             A
 -squadron ----------------

                              KEY:  PS114A

                              VALID SQUADRONS

     -------------------------------------------------------------------
     |  ENTER ANY SQUADRON                                             |
     -------------------------------------------------------------------
```

Inserting VT-9 will cause the screen to display:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                              Beginning Key
          Enter the components of the key in your sort order.  (; to default)

                             P
                             S    \
                             1
                             1
                             4.
                             A
                             VT-9
 -uic---------------

                              KEY:  PS114AVT-9

                              VALID UIC's

     -------------------------------------------------------------------
     |  ENTER ANY UIC                                                  |
     -------------------------------------------------------------------
```

71

After entering the UIC, 63199, the following display appears:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                          Beginning Key
         Enter the components of the key in your sort order.  (; to default)

                    P
                    S
                    1
                    1
                    4
                    A
                    VT-9
                    63199
activity group---


                         KEY:  PS114AVT-963199

                          VALID ACTIVITY GROUPS

         ┌─────────────────────────────────────────────────────────────┐
         │  ENTER ANY ACTIVITY GROUP                                     │
         └─────────────────────────────────────────────────────────────┘
```

Upon entering the activity group the following display appears:

```
Resource Planning System:  KEY ENTRY SCREEN                    08/10/81  S:  2

                          Beginning Key
         Enter the components of the key in your sort order.  (; to default)

                    P
                    S
                    1
                    1
                    4
                    A
                    VT-9
                    63199
                    78
-subactivity group  ##        KEY:  PS114AVT-96319978

                          VALID SUBACTIVITY GROUPS

         ┌─────────────────────────────────────────────────────────────┐
         │  ENTER ANY SUBACTIVITY GROUP                                  │
         └─────────────────────────────────────────────────────────────┘
```

After the final entry is made the program will display the same KEY
ENTRY SCREENS for the user to insert the Ending Key. Once the Ending Key is
inserted (or ; to default) the desired files will be printed. Examples of
the various file outputs are contained in appendix B.

OPTION 5, PRINT RESOURCE OUTPUT REPORTS. Selecting Option 5, Print Resource
Output Reports, from the Report Generation Subsystem will cause the screen
to display:

```
Resource Planning System:   Report Generation Menu              )          08/10/81  S:  2



        Option!      Available Options
              !
        1     !   Print Phased FY Requirements
              !
        2     !   Print TRARON MILITARY MANPOWER Report
              !
        3     !   Print Sequenced Resource Reports
              !
        4     !   Print Sequenced Resource Reports    #2
              !
        5     !   Print Resource Output Comparisons
              !
        •     !   Return to MASTER PRINT MENU

                                                    Enter Desired Option:  #
```

Examples of the various reports are contained in appendix C.

END OF SESSION (MASTER RPS MENU •)

Selecting the final Option •, End of Session, from the MASTER RPS MENU
will cause the program to display:

Thank you for using the RESOURCE PLANNING SYSTEM

END PROGRAM
FREE SPACE=
    55830

The terminal is now available for use by another user.

73

LIST OF ACRONYMS

|	
AOC	Aviation Officer Candidate
AOCS	Aviation Officer Candidate School
API	Aviation Pre-Flight Indoctrination
ATDS	Airborne Tactical Data System
CNATRA	Chief of Naval Air Training
CNO	Chief of Naval Operations
FYDP	Five Year Defense Plan
NA	Naval Aviator
NASC	Naval Aviation Schools Command
NATRACOM	Naval Air Training Command
NAV	Navigator
NAVEDTRACOM	Naval Education and Training Command
NFO	Naval Flight Officer
NFOTR	Naval Flight Officer Training Rate
OJN	Overwater Jet Navigation
PTR	Pilot Training Rate
RIO	Radar Intercept Officer
RPS	Resource Planning System
RVAW	Carrier Airborne Early Warning Wing
TN	Tactical Navigator

APPENDIX A

NAVAL AVIATOR/NAVAL FLIGHT OFFICER PIPELINES

STRIKE Pipeline
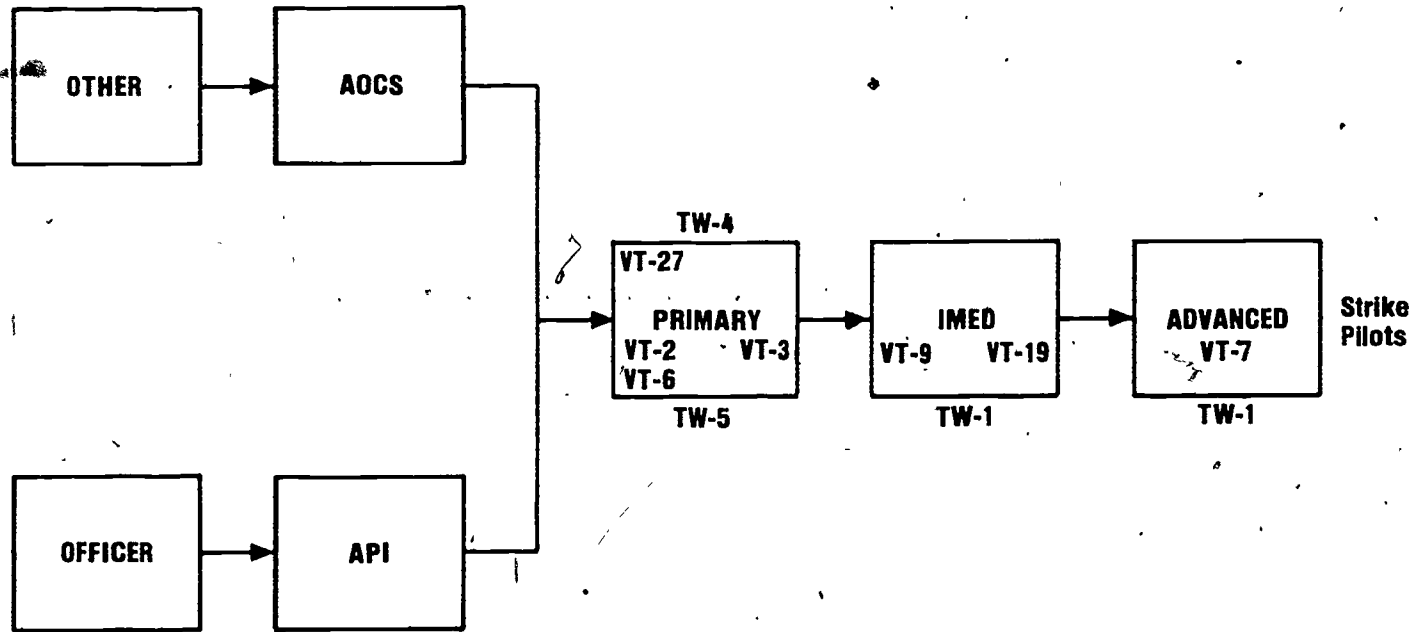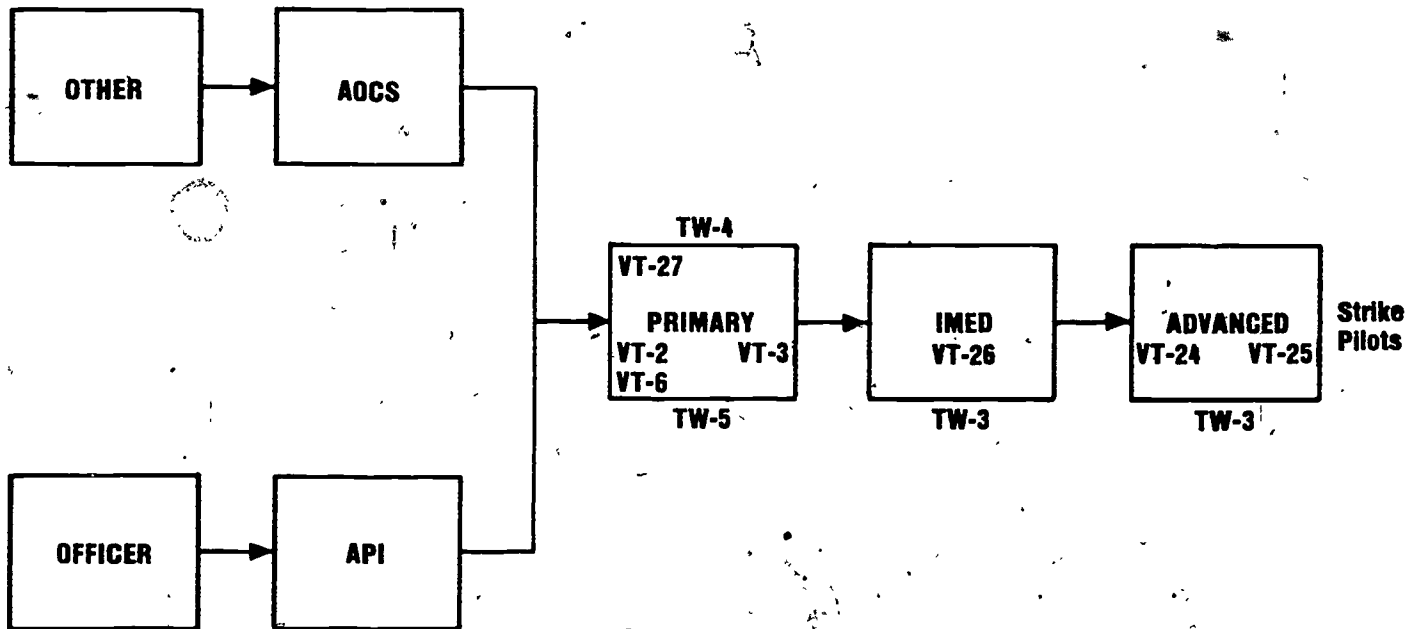
```
┌─────────┐      ┌─────────┐
│  OTHER  │ ───► │  AOCS   │ ──┐
└─────────┘      └─────────┘   │
                               │                TW-4              TW-1              TW-1
                               │          ┌──────────┐     ┌──────────┐     ┌──────────┐
                               │          │ VT-27    │     │          │     │          │
                               ├────────► │ PRIMARY  │ ──► │  IMED    │ ──► │ ADVANCED │ ──►  Strike
                               │          │VT-2  VT-3│     │VT-9 VT-19│     │   VT-7   │      Pilots
┌─────────┐      ┌─────────┐   │          │ VT-6     │     └──────────┘     └──────────┘
│ OFFICER │ ───► │   API   │ ──┘          └──────────┘
└─────────┘      └─────────┘                TW-5
```

TW-4
TW-5

TW = Wing No.

STRIKE Pipeline

69

```
┌──────────┐      ┌──────────┐
│  OTHER   │ ───▶ │   AOCS   │──────┐
└──────────┘      └──────────┘      │
                                    │      TW-4
                                    │    ┌──────────┐      ┌──────────┐      ┌──────────┐
                                    │    │ VT-27    │      │          │      │          │   Strike
                                    └──▶ │ PRIMARY  │ ───▶ │  IMED    │ ───▶ │ ADVANCED │   Pilots
                                    ┌──▶ │ VT-2  VT-3│     │  VT-26   │      │VT-24  VT-25│
                                    │    │ VT-6     │      │          │      │          │
┌──────────┐      ┌──────────┐      │    └──────────┘      └──────────┘      └──────────┘
│ OFFICER  │ ───▶ │   API    │──────┘       TW-5             TW-3             TW-3
└──────────┘      └──────────┘
```

TW = Wing No.

STRIKE Pipeline


```
┌─────────┐      ┌─────────┐
│  OTHER  │─────▶│  AOCS   │──┐
└─────────┘      └─────────┘  │
                              │         TW-4
                              │      ┌──────────┐     ┌──────────┐     ┌──────────┐
                              │      │ VT-27    │     │          │     │          │       Strike
                              ├─────▶│ PRIMARY  │────▶│  IMED    │────▶│ ADVANCED │────▶  Pilots
                              │      │ VT-2 VT-3│     │  VT-23   │     │VT-21 VT-22│
┌─────────┐      ┌─────────┐  │      │ VT-6     │     └──────────┘     └──────────┘
│ OFFICER │─────▶│  API    │──┘      └──────────┘        TW-2            TW-2
└─────────┘      └─────────┘            TW-5
```

TW = Wing No.

70

81

80

```
┌─────────┐      ┌─────────┐
│  OTHER  │ ───▶ │  AOCS   │ ──┐
└─────────┘      └─────────┘   │
                               │        TW-4
                               │   ┌──────────────┐    ┌──────────┐    ┌──────────┐
                               │   │ VT-27        │    │          │    │          │    Strike
                               └──▶│   PRIMARY    │──▶ │   IMED   │──▶ │ ADVANCED │    Pilots
                               │   │ VT-2    VT-3 │    │   VT-4   │    │   VT-4   │
                               │   │ VT-6         │    └──────────┘    └──────────┘
                               │   └──────────────┘        TW-6            TW-6
┌─────────┐      ┌─────────┐   │        TW-5
│ OFFICER │ ───▶ │   API   │ ──┘
└─────────┘      └─────────┘
```
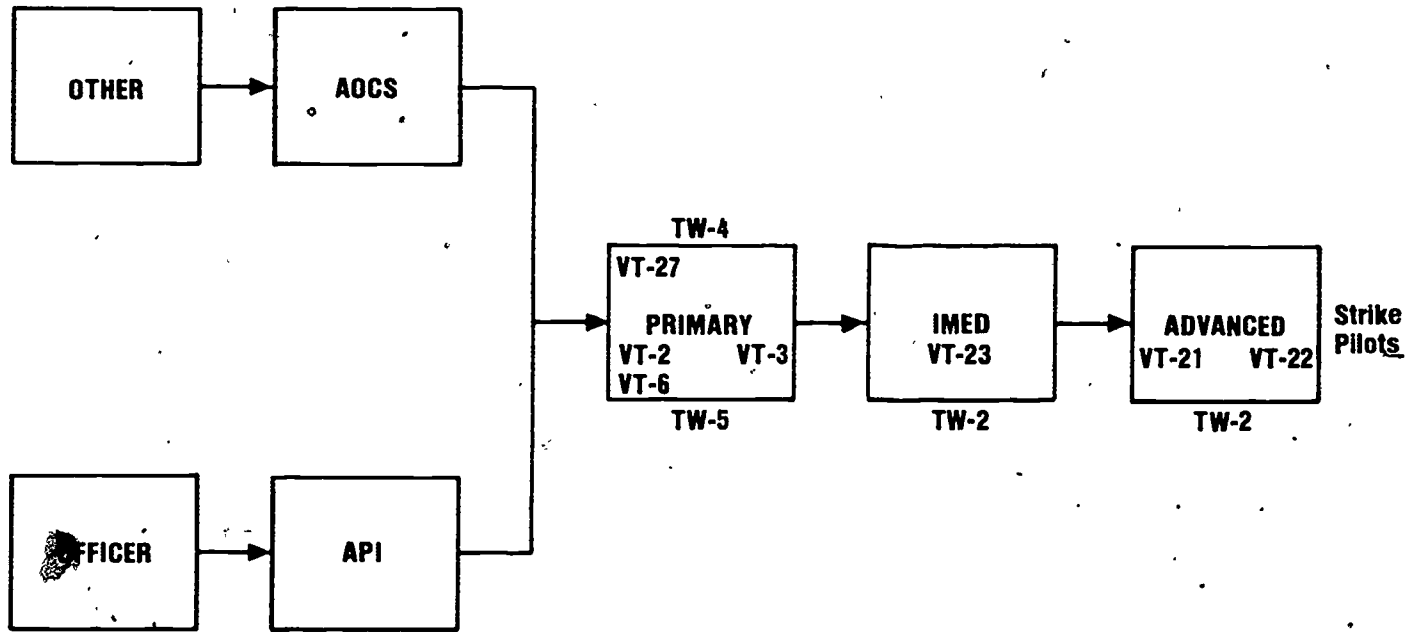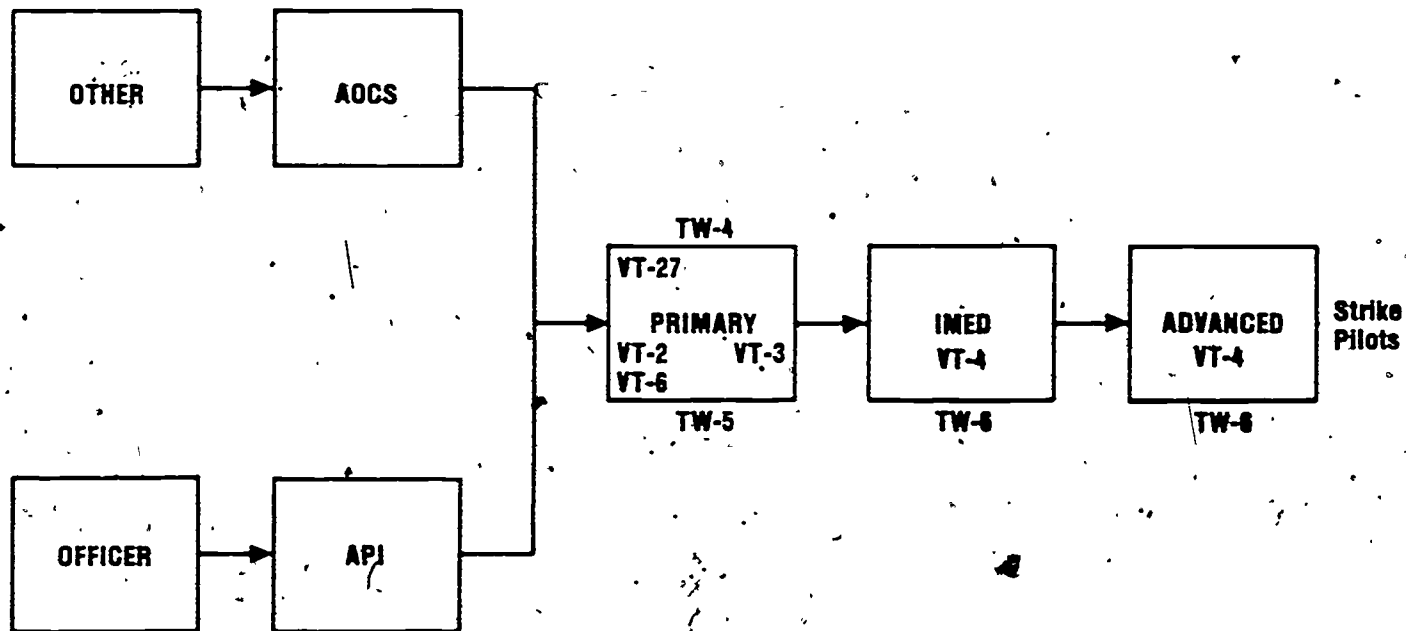
TW = Wing No.

VAW PIPELINE
(E2/C2 Pipeline)
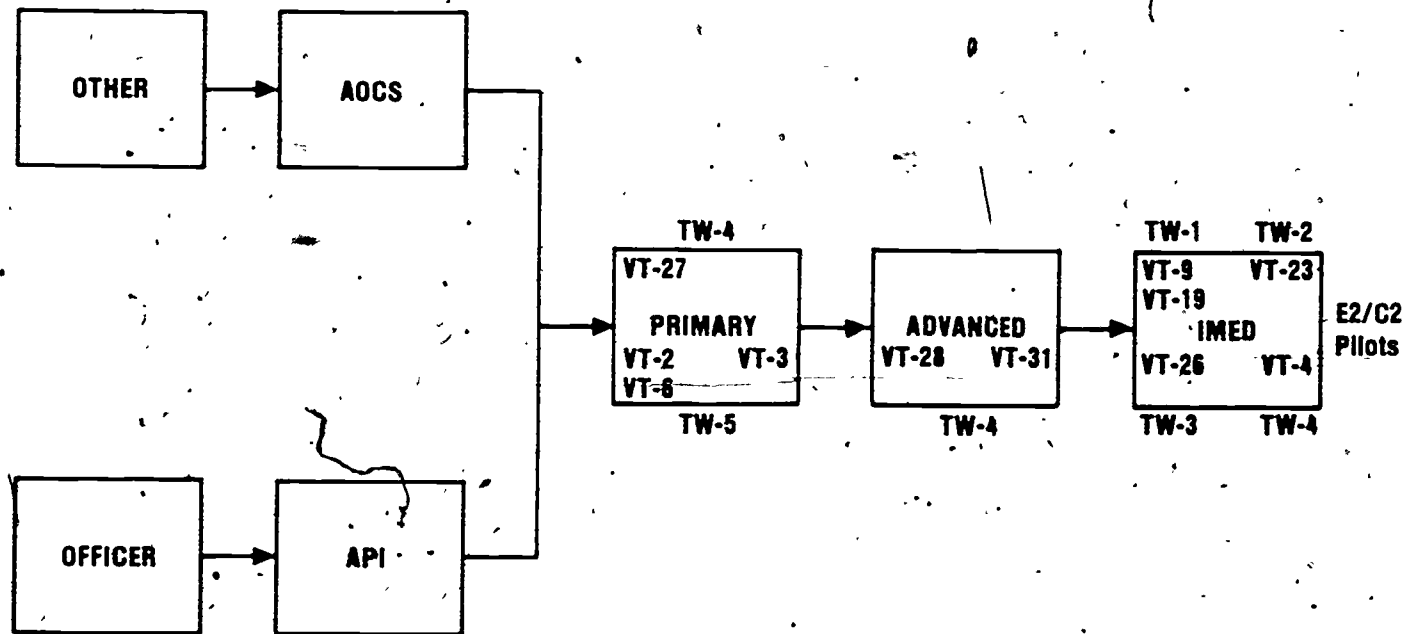
```
┌──────────┐      ┌──────────┐
│          │      │          │
│  OTHER   │─────▶│  AOCS    │──────────┐
│          │      │          │          │
└──────────┘      └──────────┘          │
                                        │
                                        │        TW-4                    TW-1    TW-2
                                        │     ┌──────────┐   ┌──────────┐   ┌──────────┐
                                        │     │ VT-27    │   │          │   │ VT-9  VT-23│   E2/C2
                                        └────▶│          │──▶│ ADVANCED │──▶│ VT-19     │   Pilots
                                        ┌────▶│ PRIMARY  │   │          │   │   IMED    │
                                        │     │ VT-2 VT-3│   │VT-28 VT-31│  │ VT-26  VT-4│
                                        │     │ VT-6     │   └──────────┘   └──────────┘
┌──────────┐      ┌──────────┐          │     └──────────┘      TW-4         TW-3    TW-4
│          │      │          │          │        TW-5
│ OFFICER  │─────▶│  API     │──────────┘
│          │      │          │
└──────────┘      └──────────┘
```

TW = Wing No.

72

84

85

Phased Maritime Pipeline

```
┌──────────┐      ┌──────────┐
│  OTHER   │─────▶│   AOCS   │──────┐
└──────────┘      └──────────┘      │
                                     │
                          TW-4       │
                        ┌──────────┐ │          ┌──────────┐
                        │ VT-27  · │ │          │          │   Maritime
                        │          │◀┤          │ ADVANCED │   Pilots.
                        │ PRIMARY  │─┼─────────▶│ VT-28  VT-31
                        │ VT-2  VT-3│ │         │          │
                        │ VT-6     │ │          └──────────┘
                        └──────────┘ │            TW-4
                          TW-5       │
┌──────────┐      ┌──────────┐      │
│ OFFICER  │─────▶│   API    │──────┘
└──────────┘      └──────────┘
```

73
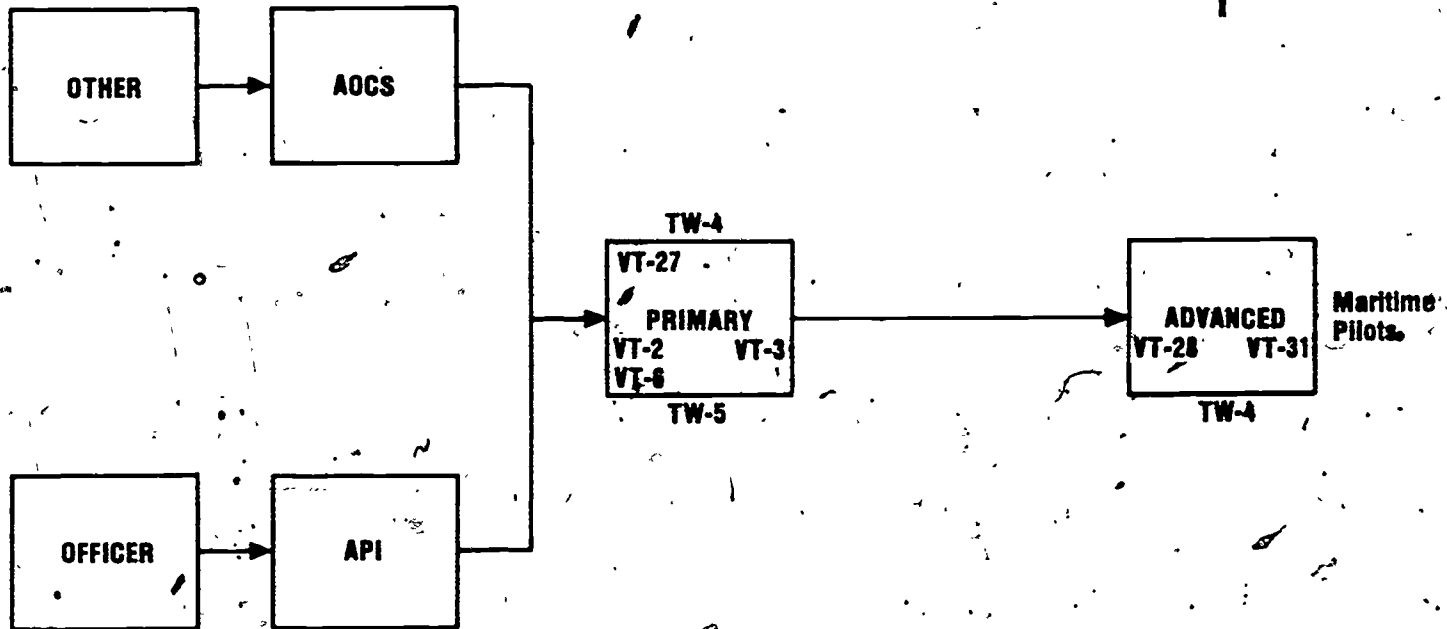
TW = Wing No.

Advanced Maritime Pipeline
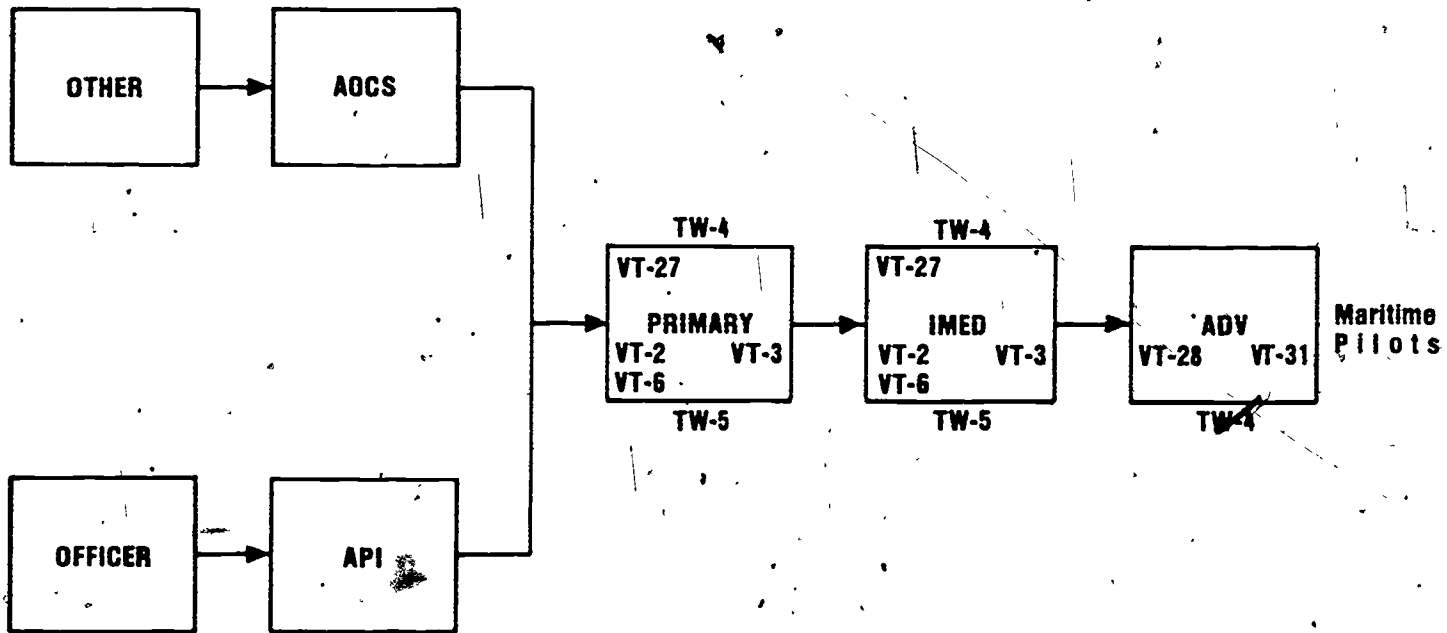
TW = Wing No.

74

89.

89

```
┌──────────┐      ┌──────────┐
│  OTHER   │ ───▶ │  AOCS    │ ──────┐
└──────────┘      └──────────┘       │
                                     │
                                     │
                    TW-4         TW-4
              ┌──────────┐  ┌──────────┐  ┌──────────┐  ┌──────────┐
              │VT-27     │  │VT-27     │  │          │  │          │
              │ PRIMARY  │─▶│  IMED    │─▶│TRANSITION│─▶│   ADV    │─▶ Helo
              │VT-2  VT-3│  │VT-2  VT-3│  │  HT-8    │  │  HT-18   │   Pilots
              │VT-6      │  │VT-6      │  │          │  │          │
              └──────────┘  └──────────┘  └──────────┘  └──────────┘
                 TW-5          TW-5          TW-5
┌──────────┐      ┌──────────┐       │
│ OFFICER  │ ───▶ │   API    │ ──────┘
└──────────┘      └──────────┘
```

TW = Wing No.

ATDS Pipeline

```
  ┌──────────┐      ┌──────────┐
  │          │      │          │
  │  OTHER   │─────▶│   AOCS   │──────┐
  │          │      │          │      │
  └──────────┘      └──────────┘      │
                                      │      ┌──────────┐      ┌──────────┐      ┌──────────┐
                                      │      │          │      │          │      │   ADV    │
                                      ├─────▶│ PRIMARY  │─────▶│   IMED   │─────▶│  (EAST/  │────▶ ATDS
                                      │      │  VT-10   │      │  VT-10   │      │RVAW WEST)│
                                      │      │          │      │          │      │          │
                                      │      └──────────┘      └──────────┘      └──────────┘
  ┌──────────┐      ┌──────────┐      │         TW-6             TW-6
  │          │      │          │      │
  │ OFFICER  │─────▶│   API    │──────┘
  │          │      │          │
  └──────────┘      └──────────┘
```
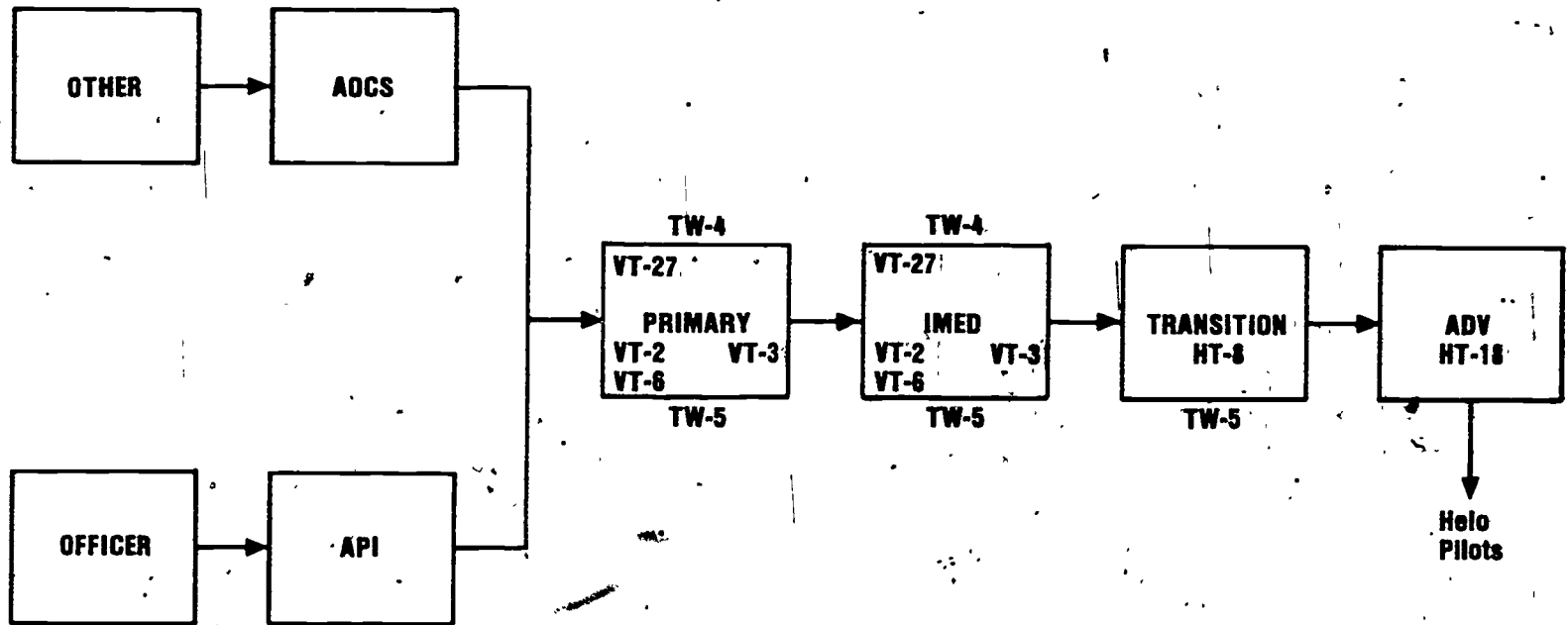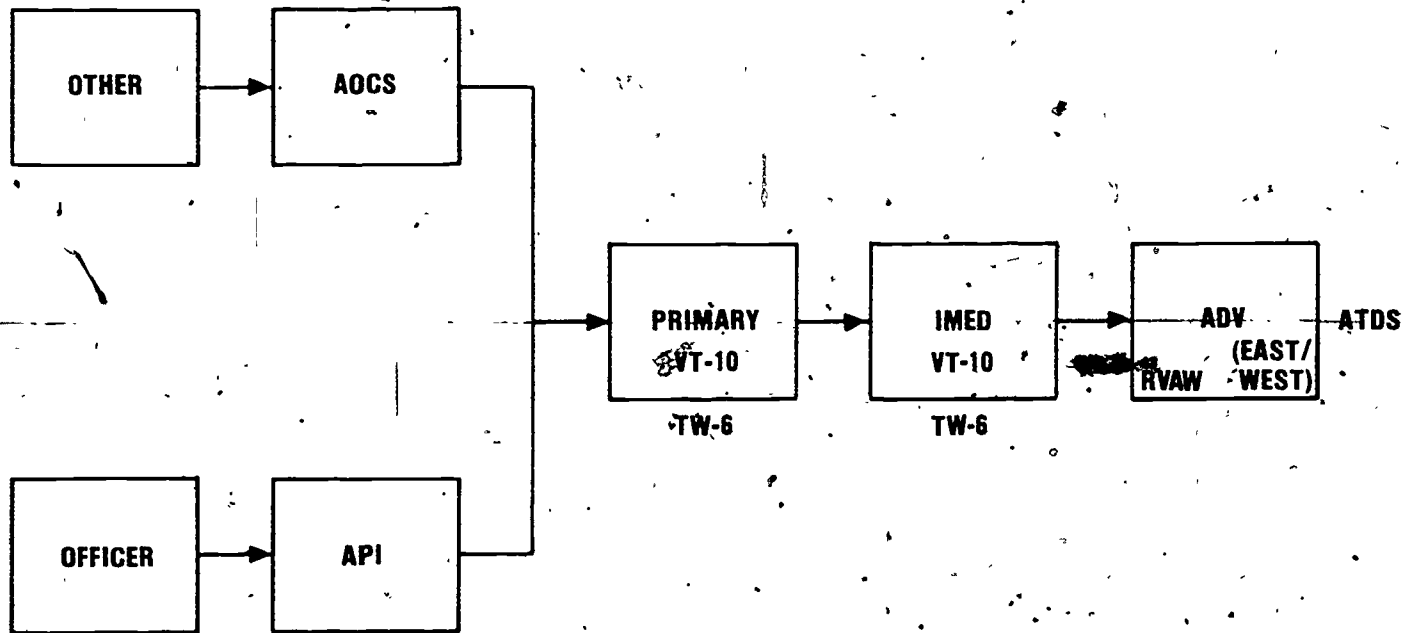
TW = Wing No.
RVAW = Carrier Airborne Early Warning Wing
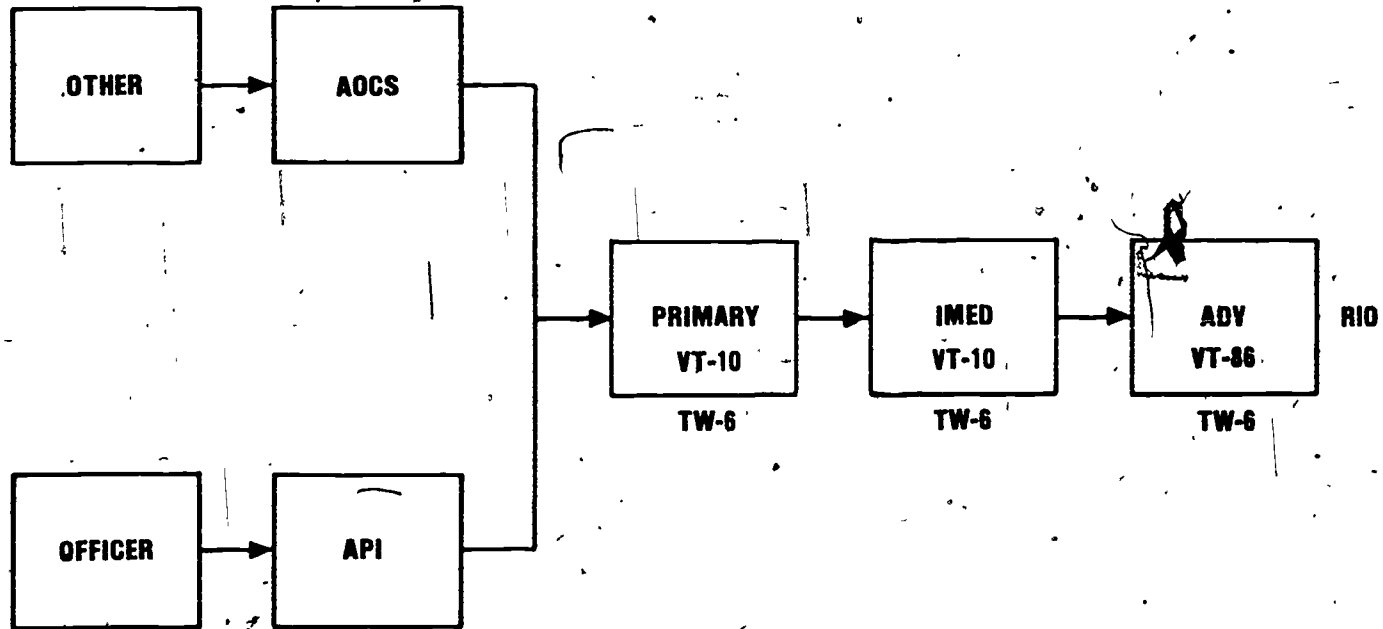
```
  ┌──────────┐      ┌──────────┐
  │  .OTHER  │─────▶│   AOCS   │────┐
  └──────────┘      └──────────┘    │
                                    │      ┌──────────┐    ┌──────────┐    ┌──────────┐
                                    ├─────▶│ PRIMARY  │───▶│   IMED   │───▶│   ADV    │  RIO
                                    │      │  VT-10   │    │  VT-10   │    │  VT-86   │
  ┌──────────┐      ┌──────────┐    │      └──────────┘    └──────────┘    └──────────┘
  │ OFFICER  │─────▶│   API    │────┘        TW-6            TW-6            TW-6
  └──────────┘      └──────────┘
```

77

TW = Wing No.

95

```
┌──────────┐      ┌──────────┐
│  OTHER   │─────▶│  AOCS    │──────┐
└──────────┘      └──────────┘      │
                                    │
                                    ▼
                          ┌──────────┐   ┌──────────┐   ┌──────────┐
                          │ PRIMARY  │──▶│  IMED    │──▶│   ADV    │  TN
                          │  VT-10   │   │  VT-10   │   │  VT-86   │
                          └──────────┘   └──────────┘   └──────────┘
                             TW-6           TW-6           TW-6
┌──────────┐      ┌──────────┐      ▲
│ OFFICER  │─────▶│   API    │──────┘
└──────────┘      └──────────┘
```

TW = Wing No.

78

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```
┌──────────┐      ┌──────────┐
│          │      │          │
│  OTHER   │─────▶│  AOCS    │────┐
│          │      │          │    │
└──────────┘      └──────────┘    │
                                  │      ┌──────────┐      ┌──────────────┐
                                  ├─────▶│ PRIMARY  │─────▶│     ADV      │
                                  │      │  VT-10   │      │  MATHER AFB  │
                                  │      │          │      │              │
                                  │      └──────────┘      └──────────────┘
                                  │         TW-6                USAF
┌──────────┐      ┌──────────┐    │
│          │      │          │    │
│ OFFICER  │─────▶│   API    │────┘
│          │      │          │
└──────────┘      └──────────┘
```

79
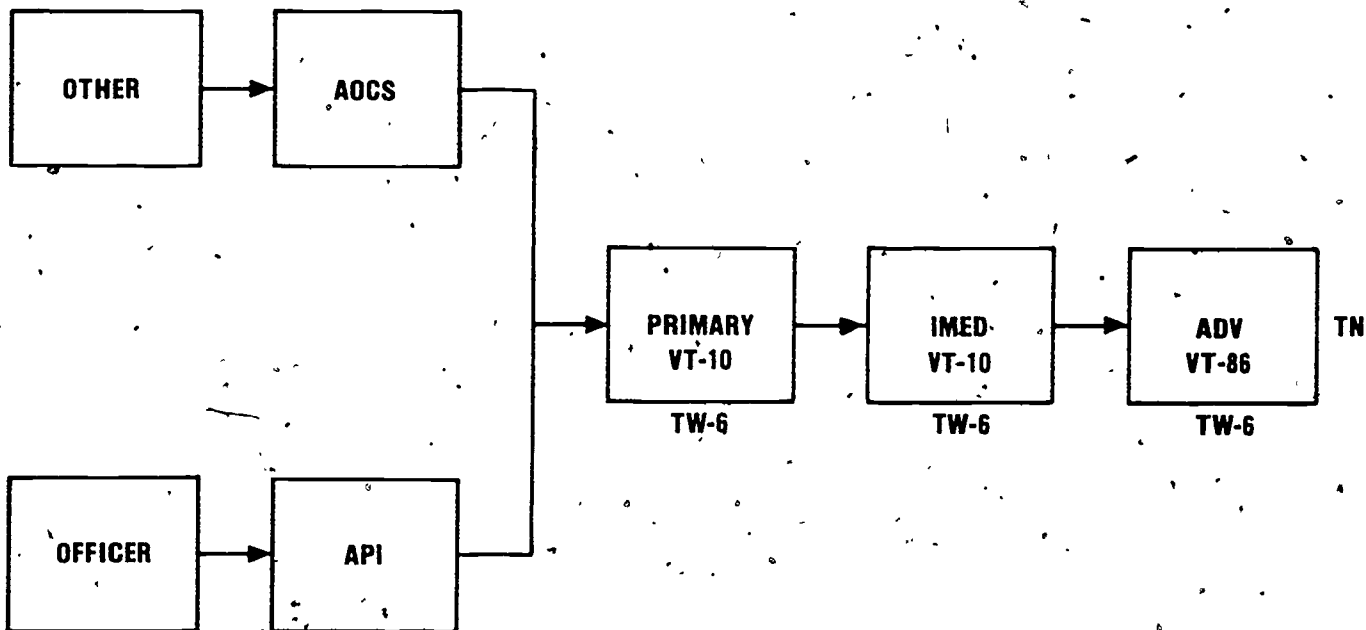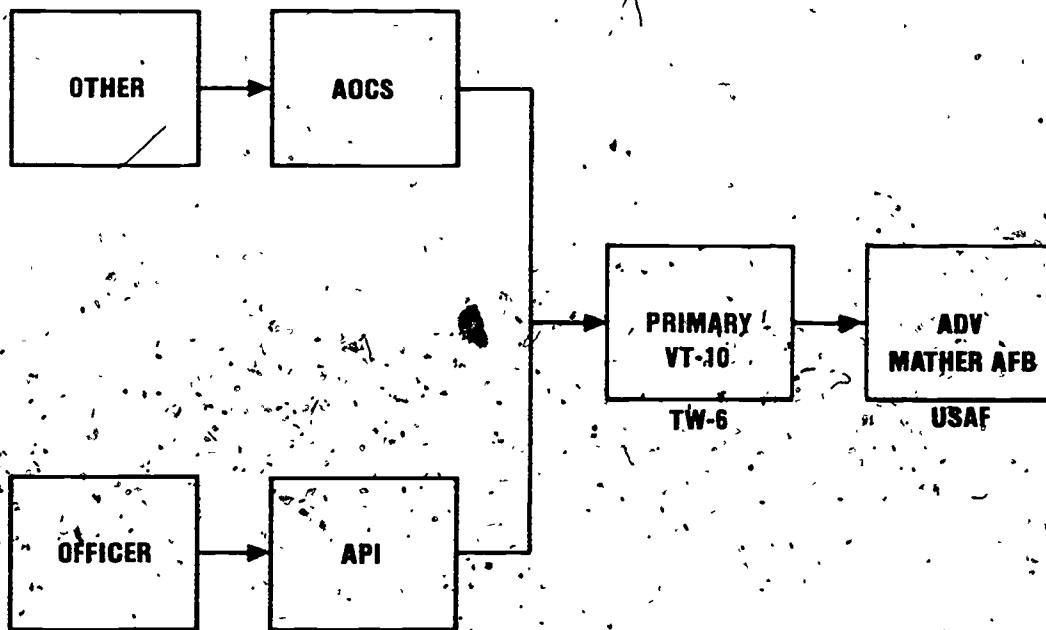
TW = Wing No.

Appendix B

RPS FILE OUTPUTS

100

.8Q

Resource Planning System: DRAFTING PERCENTAGES TABLE   04/22/82 S: 1

...

	TYPE TRAINING	PIPELINE	PIPE ID	TRAINING LEVEL	
	P	S	E	F	

LINE NO.	FISCAL YEAR	IN TRAINING %			COMPLETIONS %		
		YR1	YR2	YR3	YR1	YR2	YR3
1	82	1.40	89.20	9.40	10.00	90.00	0.00
2	83	1.40	89.20	9.40	10.00	90.00	0.00
3	84	1.40	89.20	9.40	10.00	90.00	0.00
4	85	1.40	89.20	9.40	10.00	90.00	0.00
5	86	1.40	89.20	9.40	10.00	90.00	0.00
6	87	1.40	89.20	9.40	10.00	90.00	0.00
7	88	1.40	89.20	9.40	10.00	90.00	0.00

ENTER OPTION (RECALL, RETURN, line #, Save, Help, Print):

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101

102

Resource Planning System: PTR INPUT/EDIT   Page .   V4/20/86 S:
     PIPELINE P   DIVISION S   PIPE.ID 2   LEVEL P   SQUADRON VT-F
              LINE   G SP   TY GR   FY 84   FY 85   FY 86   FY 87   F 88

			LINE	TY GR	FY 84	FY 85	FY 86	FY 87	F 88
USN	PTR	1	72	37	37	37	37	37	37
	ATR	2	16.00	16.00	16.00	16.00	16.00	16.00	16.00
USMC	PTR	3	31	31	31	31	31	31	31
	ATR	4	16.00	16.00	16.00	16.00	16.00	16.00	16.00
USCG	PTR	5	0	0	0	0	0	0	0
	ATR	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FMS	PTR	7	0	0	0	0	0	0	0
	ATR	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	PTR	9	0	0	0	0	0	0	0
	ATR	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

--------- Options ---------

    P: PAGE   S: SAVE   RECORD
    C: HOW TTOO   Enter Option: ##   A: ABORT   RECORD
    P: PRINT   D: DUPLICATE ATTRITIONS

Technical Report 116

82

103   104

Appendix C

RPS REPORTS

```
+------------------------------------------------------------------+
|                      PTR File Report                             |
|  This report is printed by:  Pipeline Structure Table            |
|                                                                  |
|  The Sort Order is:                                              |
|                                                                  |
|    1   TYPE TRNG      4   PIPE POS      7   SQUADRON   10  SAG    |
|    2   TRNG PIPE      5   TRNG WING     8   UIC                   |
|    3   PIPE ID        6   TRNG PHASE    9   AG                    |
|                                                                  |
|  Print Totals are:                                               |
|                                                                  |
|                                                                  |
|  Starting PST Entry: FIRST                                       |
|                                                                  |
|  Ending PST Entry: LAST                                          |
+------------------------------------------------------------------+
```

Resource Planning System:PTR File Report   02/25/82   Page: 1

TRAINING TYPE N	FY -- 82		FY -- 83		FY -- 84		FY -- 85		FY -- 86		FY -- 87		FY -- 88	
PIPELINE A														
PIPE. ID 6														
PHASE A														
SQUADRON RVAW	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRS
USN	0.00	56	0.00	50	0.00	50	0.00	50	0.00	50	0.00	50	0.00	50
PIPELINE A														
PIPE. ID 6														
PHASE I														
SQUADRON VT-10	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRS
USN	10.00	56	10.00	50	10.00	50	10.00	50	10.00	50	10.00	50	10.00	50
PIPELINE A														
PIPE. ID 6														
PHASE P														
SQUADRON VT-10	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRS
USN	12.00	63	12.00	56	12.00	56	12.00	56	12.00	56	12.00	56	12.00	56
PIPELINE A														
PIPE. ID 6														
PHASE C														
SQUADRON API	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRS
USN	6.00	36	6.00	32	6.00	32	6.00	32	6.00	32	6.00	32	6.00	32
PIPELINE A														
PIPE. ID 6														
PHASE D														
SQUADRON API	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRS
USN	6.00	36	6.00	32	6.00	32	6.00	32	6.00	32	6.00	32	6.00	32
PIPELINE A														
PIPE. ID 6														
PHASE F														
SQUADRON OFF	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRs	ATTR	PTRS
USN	0.00	39	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34

DATA FOR RECORD NA66 OAOC NOT PRINTED DUE TO ALL ZERO DATA

DATA FOR RECORD NA67 EN-O NOT PRINTED DUE TO ALL ZERO DATA

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```
+-------------------------------------------------------------------+
!                     Phasing Percentages File Report               !
! This report is printed by:  Pipeline Structure Table              !
!                                                                   !
! The Sort Order is:                                                !
!                                                                   !
!  1   TYPE TRNG      4   PIPE POS      7  SQUADRON     10  SAG      !
!  2   TRNG PIPE      5   TRNG WING     8  UIC                       !
!  3   PIPE ID        6   TRNG PHASE    9  AG                        !
!                                                                   !
! Print Totals are:                                                 !
!                                                                   !
!                                                                   !
! Starting PST Entry: FIRST                                         !
!                                                                   !
! Ending PST Entry: LAST                                            !
+-------------------------------------------------------------------+
```

Resource Planning System: Phasing Percentages File Report   02/25/82 Page: 1

TYPE TRAINING	PIPELINE	PIPE ID	TRAINING PHASE
NFO	ATDS	6	ADVANCED

LINE	FISCAL	IN TRAINING %			COMPLETIONS %		
NO.	YEAR	FY	FY+1	FY+2	FY	FY+1	FY+2
1	82	85.00	15.00	0.00	100.00	0.00	0.00
2	83	85.00	15.00	0.00	100.00	0.00	0.00
3	84	85.00	15.00	0.00	100.00	0.00	0.00
4	85	85.00	15.00	0.00	100.00	0.00	0.00
5	86	85.00	15.00	0.00	100.00	0.00	0.00
6	87	85.00	15.00	0.00	100.00	0.00	0.00
7	88	85.00	15.00	0.00	100.00	0.00	0.00

TYPE TRAINING	PIPELINE	PIPE ID	TRAINING PHASE
NFO	ATDS	6	INTERMEDIATE

LINE	FISCAL	IN TRAINING %			COMPLETIONS %		
NO.	YEAR	FY	FY+1	FY+2	FY	FY+1	FY+2
1	82	59.00	41.00	0.00	66.00	34.00	0.00
2	83	59.00	41.00	0.00	66.00	34.00	0.00
3	84	59.00	41.00	0.00	66.00	34.00	0.00
4	85	59.00	41.00	0.00	66.00	34.00	0.00
5	86	59.00	41.00	0.00	66.00	34.00	0.00
6	87	59.00	41.00	0.00	66.00	34.00	0.00
7	88	59.00	41.00	0.00	66.00	34.00	0.00

TYPE TRAINING	PIPELINE	PIPE ID	TRAINING PHASE
NFO	ATDS	6	PRIMARY

LINE	FISCAL	IN TRAINING %			COMPLETIONS %		
NO.	YEAR	FY	FY+1	FY+2	FY	FY+1	FY+2
1	82	37.00	63.00	0.00	52.00	48.00	0.00
2	83	37.00	63.00	0.00	52.00	48.00	0.00
3	84	37.00	63.00	0.00	52.00	48.00	0.00
4	85	37.00	63.00	0.00	52.00	48.00	0.00
5	86	37.00	63.00	0.00	52.00	48.00	0.00
6	87	37.00	63.00	0.00	52.00	48.00	0.00
7	88	37.00	63.00	0.00	52.00	48.00	0.00

```
-------------------------------------------------------------------
|                    Planning Factors File Report                 |
| This report is printed by:  Pipeline Structure Table            |
|                                                                 |
| The Sort Order is:                                              |
|                                                                 |
| 1  TYPE TRNG      4  PIPE POS      7  SQUADRON      10  SAG      |
| 2  TRNG PIPE      5  TRNG WING     8  UIC                        |
| 3  PIPE ID        6  TRNG PHASE    9  AG                         |
|                                                                 |
| Print Totals are:                     0                         |
|                                                                 |
| Starting PST Entry: FIRST                                       |
|                                                                 |
| Ending PST Entry: LAST                                          |
-------------------------------------------------------------------
```

Resource Planning System: Planning Factors File Report   02/25/   1

```
|------------------------------------------------------------------------------------------------------------------|
| DATA FOR:  Type Training: P   Pipeline: E   Pipe Id: 4   Phase: A   Squadron: VT-28   Aircraft/Sim. 2F129   Military: N |
|------------------------------------------------------------------------------------------------------------------|
|          Student Factors        |        Instructor Factors       |      Aircraft and Simulator Factors          |
|------------------------------------------------------------------------------------------------------------------|
| Syllabus |  %  | Total |  %   | Contact |Annual| Hours/ | Squad |  %   | Sortie | T-A-T |Annual| Hours/ |
| Hours | Weeks | Attr | Hours | Avail |  Time  | Util |Student | Maint | Avail | Length|       | Util |Student|
|------------------------------------------------------------------------------------------------------------------|
| 30.0 | 0.00 | 0.00 | 31.50 | 71.00 | 1.28 | 735 | 22.20 | 0.00 | 95.00 | 1.50 | 0.25 | 2939 | 33.70 |
|------------------------------------------------------------------------------------------------------------------|
| Years Available |                           Other Factors                                                      |
| First |  Last  |-----------------------------------------------------------------------------------------------|
|-------+--------| Weather | Overhead| Civ |  I.U.T   | Admin|Maint |  NAS  |Enlistd|Other |
|  82   |  87    | Factor  | Factor  |Assign| Overhead | Av.  |Supprt| Maint |Support|Supprt|
|                |------------------------------------------------------------------------|
|                |  0.00   |  0.00   |  0   |  1.15    |  0   |  0   | 0.00  |  0    |  0   |
|------------------------------------------------------------------------------------------------------------------|
```

```
|------------------------------------------------------------------------------------------------------------------|
| DATA FOR:  Type Training: P   Pipeline: E   Pipe Id: 4   Phase: A   Squadron: VT-28   Aircraft/Sim. T44A   Military: M |
|------------------------------------------------------------------------------------------------------------------|
|          Student Factors        |        Instructor Factors       |      Aircraft and Simulator Factors          |
|------------------------------------------------------------------------------------------------------------------|
| Syllabus |  %  | Total |  %   | Contact |Annual| Hours/ | Squad |  %   | Sortie | T-A-T |Annual| Hours/ |
| Hours | Weeks | Attr | Hours | Avail |  Time  | Util |Student | Maint | Avail | Length|       | Util |Student|
|------------------------------------------------------------------------------------------------------------------|
| 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
|------------------------------------------------------------------------------------------------------------------|
| Years Available |                           Other Factors                                                      |
| First |  Last  |-----------------------------------------------------------------------------------------------|
|-------+--------| Weather | Overhead| Civ |  I.U.T   | Admin|Maint |  NAS  |Enlistd|Other |
|  82   |  87    | Factor  | Factor  |Assign| Overhead | Av.  |Supprt| Maint |Support|Supprt|
|                |------------------------------------------------------------------------|
|                |  0.00   |  0.00   |  0   |  0.00    |  0   |  0   | 0.00  |  0    |  0   |
|------------------------------------------------------------------------------------------------------------------|
```

PLANNING FACTORS FILE KEY PRINT PROGRAM

TYPE TRAINING	PIPE LINE	PIPE ID	TRN PHASE	SQUAD-RON	AIRCRFT /SIMUL	MIL BRANCH	KEY STATUS	RECORD KEY	KEY FILE
							OK		
P	E	1	I	VT-19	2F101	N	OK		
P	E	1	I	VT-19	T2C	N	OK		
P	E	1	I	VT-9	2F101	N	OK		
P	E	1	I	VT-9	T2C	N	OK		
P	E	4	A	VT-28	2F129	N	OK		
P	E	4	A	VT-28	T44A	M	OK		
P	E	4	A	VT-28	T44A	N	OK		
P	E	4	A	VT-31	2F129	N	OK		
P	E	4	I	VT-19	2F101	N	((		
P	E	4	I	VT-19	T2C	N	OK		
P	E	4	I	VT-23	2F101	N	OK		
P	E	4	I	VT-23	T2C	N	OK		
P	E	4	I	VT-26	2F101	N	OK		
P	E	4	I	VT-26	T2C	N	OK		
P	E	4	I	VT-4	2F101	N	OK		
P	E	4	I	VT-4	T2C	N	OK		
P	E	4	I	VT-9	2F101	N	OK		
P	E	4	I	VT-9	T2C	N	OK		
P	E	4	P	VT-2	2B37	N	OK		
P	E	4	P	VT-2	2C42	N	OK		
P	E	4	P	VT-2	T34C	N	OK		
P	E	4	P	VT-27	2B21	N	OK		
P	E	4	P	VT-27	T28B	N	OK		
P	E	4	P	VT-3	2B37	N	OK		
P	E	4	P	VT-3	2C42	N	OK		
P	E	4	P	VT-3	T34C	N	OK		
P	E	4	P	VT-6	2B21	N	OK		
P	E	4	P	VT-6	2B37	N	OK		
P	E	4	P	VT-6	2C42	N	OK		
P	E	4	P	VT-6	T28B	N	OK		
P	E	4	P	VT-6	T34C	N	OK		
P	H	5	A	HT-18	2A38	N	OK		
P	H	5	A	HT-18	2B24	C	OK		
P	H	5	A	HT-18	2B24	F	OK		
P	H	5	A	HT-18	2B24	M	OK		
P	H	5	A	HT-18	2B24	N	OK		
P	H	5	A	HT-18	H1	N	OK		
P	H	5	A	HT-18	TH-1	N	OK		
P	H	5	A	HT-18	TH1	C	OK		
P	H	5	A	HT-18	TH1	F	OK		
P	H	5	A	HT-18	TH1	M	OK		
P	H	5	A	HT-18	TH1	N	OK		
P	H	5	N	VT-2	2B37	C	OK		
P	H	5	N	VT-2	2B37	F	OK		
P	H	5	N	VT-2	2B37	M	OK		
P	H	5	N	VT-2	2B37	N	OK		
P	H	5	N	VT-2	T34C	C	OK		
P	H	5	N	VT-2	T34C	F	OK		
P	H	5	N	VT-2	T34C	M	OK		
P	H	5	N	VT-2	T34C				

PLANNING FACTORS FILE KEY PRINT PROGRAM

TYPE TRAINING	PIPE LINE	PIPE ID	TRN PHASE	SQUAD-RON	AIRCRFT /SIMUL	MIL BRANCH	KEY STATUS	RECORD KEY	KEY FILE
P	H	5	N	VT-27	2B21	M	OK		
P	H	5	N	VT-27	2B21	N	OK		
P	H	5	N	VT-27	T28B	M	OK		
P	H	5	N	VT-27	T28B	N	OK		
P	H	5	N	VT-3	2B37	C	OK		
P	H	5	N	VT-3	2B37	F	OK		
P	H	5	N	VT-3	2B37	M	OK		
P	H	5	N	VT-3	2B37	N	OK		
P	H	5	N	VT-3	T34C	C	OK		
P	H	5	N	VT-3	T34C	F	OK		
P	H	5	N	VT-3	T34C	M	OK		
P	H	5	N	VT-3	T34C	N	OK		
P	H	5	N	VT-6	2B21	C	OK		
P	H	5	N	VT-6	2B21	M	OK		
P	H	5	N	VT-6	2B21	N	OK		
P	H	5	N	VT-6	2B37	C	OK		
P	H	5	N	VT-6	2B37	F	OK		
P	H	5	N	VT-6	2B37	M	OK		
P	H	5	N	VT-6	2B37	N	OK		
P	H	5	N	VT-6	T28B	C	OK		
P	H	5	N	VT-6	T28B	M	OK		
P	H	5	N	VT-6	T28B	N	OK		
P	H	5	N	VT-6	T34C	C	OK		
P	H	5	N	VT-6	T34C	F	OK		
P	H	5	N	VT-6	T34C	M	OK		
P	H	5	N	VT-6	T34C	N	OK		
P	H	5	P	VT-2	2B37	C	OK		
P	H	5	P	VT-2	2B37	F	OK		
P	H	5	P	VT-2	2B37	M	OK		
P	H	5	P	VT-2	2B37	N	OK		
P	H	5	P	VT-2	2C42	C	OK		
P	H	5	P	VT-2	2C42	F	OK		
P	H	5	P	VT-2	2C42	M	OK		
P	H	5	P	VT-2	2C42	N	OK		
P	H	5	P	VT-2	T34C	F	OK		
P	H	5	P	VT-2	T34C	M	OK		
P	H	5	P	VT-2	T34C	N	OK		
P	H	5	P	VT-2	T35C	C	OK		
P	H	5	P	VT-27	2B21	M	OK		
P	H	5	P	VT-27	2B21	N	OK		
P	H	5	P	VT-27	T-28B	N	OK		
P	H	5	P	VT-27	T28B	M	OK		

PHASED FISCAL VEAR REQUIREMENTS IN PILOT TRARON'S TO SUPPORT AS OF 02/25/82   PAGE 1.

FV '82	STUDENT AOB'S			TRARON OFFICERS					VT/AOD ENLISTED			DEVICE USED	AIRCRAFT HOURS		
CLASSIFICATION	NAVY	MAR- INES	TOTAL OFFICERS	MARINE	COAST GUARD	FMS REIM- BURS.	NAVY	TOTAL	DIRECT	FMS REIM- BURS.	ACRFT OR SIMU.	TOTAL	DIRECT	REIM- BURS.
STRIKE PTR- 504														
AOCS	6	0	7	0	0	0	7	0	0	0		0	0	0
API	0	0	0	0	0	0	0	0	0	0		0	0	0
PRIMARV	1	0	1	0	0	0	1	0	0	0	2B21	550	550	0
PRIMARV	6	0	5	0	0	0	5	17	17	0	T-28B	1760	1760	0
INTERMEDIATE	12	0	10	0	0	0	10	71	71	0	2F101	4500	4500	0
ADVANCED	0	0	0	0	0	0	0	0	0	0	T-2C	0	0	0
ADVANCED	0	0	0	0	0	0	0	0	0	0	TEST2	0	0	0
ADVANCED	0	0	7	1	0	3	3	0	0	0	2F90	3990	2030	1960
ADVANCED	8	0	7	0	0	0	7	46	46	0	TA4J	3000	3000	0
****TOTAL STRIKE	33	0	37	1	0	3	33	134	134	0		13800	11840	1960

CNATRA   N-21   02/25/82   TRARON MILITARV MANPOWER REGUIREMENTS   FV 82

	TRARON OFFICERS								TRARON ENLISTED			
					NAVY OFFICERS							
	TOTAL OFFICERS	MARINE	COAST GUARD	FMS REIM- BURSABLE 131X	NAVV 131Y	SUP	NAVV OFFICERS DIRECT	DIRECT AG	SUP	FHS REIM. AG	SUP
VT-27	0	0	0	0	0	0	0	0	0	0	0
PRIM. & INTEP. M/H TOTAL	0	0	0	0	0	0	0	0	0	0	0
HT-8	26	0	0	0	19	7	26	76	27	0	0
TRANS. & ADV. HELO TOTAL	26	0	0	0	19	7	26	76	27	0	0
VT-4	10	0	0	0	10	0	10	60	11	0	0
INT. E2/C2 & STRIKE TOTAL	10	0	0	0	10	0	10	60	11	0	0
VT-7	0	0	0	0	0	0	0	0	0	0	0
VT-21	0	0	0	0	0	0	0	0	0	0	0
VT-4	14	1	0	3	10	0	10	39	7	0	0
ADV. STRIKE TOTAL	14	1	0	3	10	0	10	39	7	0	0
GRAND TOTAL (PILOT)	50	1	0	3	39	7	46	175	45	0	0

	TOTAL OFFICERS	MARINE Pilot NFO		FMS REIM- BURSABLE 131X 132X	NAVV 131X 132X SP		NAVV OFFICERS DIRECT	TRARON ENLISTED DIRECT AG SUP		FHS REIM. AG SUP	
VT-21	19	0	6	0	0	0 0 0	0	0	0	0	0
GRAND TOTAL (NFP)	19	0	6	0	0	0 0 0	0	0	0	0	0
GRAND TOTAL (PILOT & NFO)	69	1	6	0	3	0	39 0 7	46	175 45	0 0	

```
+-------------------------------------------------------------------------+
|                      Sequenced Resource Output File Report              |
|                                                                         |
| This report is printed by:  Pipeline Structure Table                    |
|                                                                         |
| The Sort Order is:                                                      |
|                                                                         |
|   1   TYPE TRNG        4   PIPE POS        7   SQUADRON      10  SAG      |
|   2   TRNG PIPE        5   TRNG WING       8   UIC                       |
|   3   PIPE ID.         6   TRNG PHASE      9   AG                        |
|                                                                         |
| Print Totals are:                                                       |
|     @                                                                   |
|                                                                         |
|                                                                         |
| Starting PST Entry: FIRST                                               |
|                                                                         |
| Ending PST Entry: LAST                                                  |
+-------------------------------------------------------------------------+
```

Resource Planning System: Sequenced Resource Output File Report   02/25/82 Page 1

Data for: PILOT — HELICOPTER — PIPELINE 5 TRANSITION — HT-8 — TH-57						
BRANCH USN	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88
Annual Flight Hours	11914.3	14019.3	14692.9	16082.2	16082.2	16082.2	0.0
A-3 Status Aircraft	19.0	22.0	23.0	25.0	25.0	25.0	0.0
GP IX Enl (Squad & AQD)	76.0	88.0	92.0	100.0	100.0	100.0	0.0
TOTAL Enlisted	103.0	115.0	119.0	127.0	127.0	127.0	0.0
Instructors per Student	0.058130	0.058130	0.058130	0.058130	0.058130	0.058130	0.000000
Effective Inst Required	17.0	20.0	21.0	23.0	23.0	23.0	0.0
TOTAL Instructors	19.0	22.0	23.0	25.0	25.0	25.0	0.0
TOTAL Officers	26.0	29.0	30.0	32.0	32.0	32.0	0.0
Student A.O.B.	28.0	33.0	35.0	38.0	38.0	38.0	0.0

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