

Norsk Data



ND TPS-II Operator Guide

ND-30.030.2A EN

ND TPS-II Operator Guide

ND-30.030.2A EN

NOTICE

The information in this document is subject to change without notice. Norsk Data A.S assumes no responsibility for any errors that may appear in this document. Norsk Data A.S assumes no responsibility for the use or reliability of its software on equipment that is not furnished or supported by Norsk Data A.S.

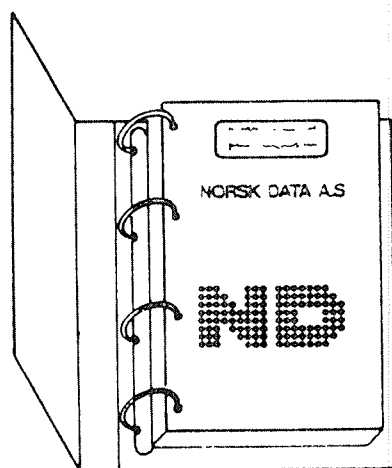
The information described in this document is protected by copyright. It may not be photocopied, reproduced or translated without the prior consent of Norsk Data A.S.

Copyright ©1985 by Norsk Data A.S.

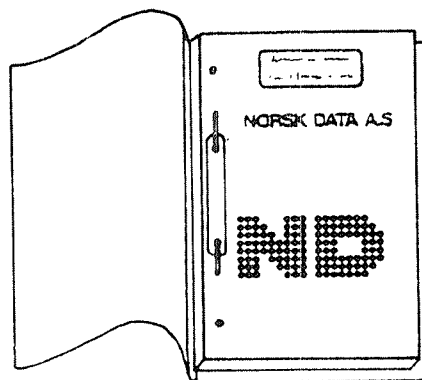
This manual is in loose-leaf form for ease of updating. Old pages may be removed and new pages easily inserted if the manual is revised.

The loose leaf form also allows you to place the manual in a ring binder (A) for greater protection and convenience of use. Ring binders with 4 rings corresponding to the holes in the manual may be ordered in two widths, 30 mm and 40 mm. Use the order form below.

The manual may also be placed in a plastic cover (B). This cover is more suitable for manuals of less than 100 pages than for large manuals. Plastic covers may also be ordered below.



A: Ring Binder



B: Plastic Cover

Please send your order to the local ND office or (in Norway) to:

Norsk Data A.S
Graphic Center
P.O. Box 25, Bogerud
0621 Oslo 6, Norway

ORDER FORM

I would like to order

..... Ring Binders, 30 mm, at nkr 20,- per binder

..... Ring Binders, 40 mm, at nkr 25,- per binder

..... Plastic Covers at nkr 10,- per cover

Name

Company

Address

.....

City

ND TPS-II Operator Guide
Publ.No. ND-30.030.2A EN



Norsk Data A.S
Graphic Center
P.O.Box 25, Bogerud
0621 Oslo 6, Norway

Manuals can be updated in two ways, new versions and revisions. New versions consist of a complete new manual which replaces the old manual. New versions incorporate all revisions since the previous version. Revisions consist of one or more single pages to be merged into the manual by the user, each revised page being listed on the new printing record sent out with the revision. The old printing record should be replaced by the new one.

New versions and revisions are announced in the Customer Support Information (CSI) and can be ordered as described below.

The reader's comments form at the back of this manual can be used both to report errors in the manual and to give an evaluation of the manual. Both detailed and general comments are welcome.

These forms and comments should be sent to:

Documentation Department
Norsk Data A.S
P.O. Box 25, Bogerud
0621 Oslo 6, Norway

Requests for documentation should be sent to the local ND office or (in Norway) to:

Graphic Center
Norsk Data A.S
P.O. Box 25, Bogerud
0621 Oslo 6, Norway

PREFACE

.....

THE PRODUCT

This manual describes the TPS-II system (Transaction Processing System). The product identification is:

ND TPS-II ND-10542B and ND-10542C
 ND-10543B and ND-10543C

THE READERS

This manual is meant for the operator and the supervisor of a TPS-II installation. The manual should be used mainly for the operation and maintenance of the TPS-II system.

PREREQUISITE KNOWLEDGE

This manual contains all the information necessary to run a computer system based on TPS-II. The person responsible of a TPS-II installation must have thorough knowledge of the administrative problems that can be solved by the system, but no special data processing knowledge is necessary.

THE MANUAL

Part 1 of the manual is written for the totally inexperienced user. This part describes, in general, the equipment necessary to run a TPS-II system, and the procedure to be followed for initializing the system.

Part 2 deals with the daily operation, and the use of various functions in TPS-II. This part is intended for reference. The individual chapters may be read when they are relevant to the task you are about to carry out.

For regular use only a few functions are used. These functions are covered in chapter 1, the Normal Operation.

RELATED MANUAL

ND TPS-II User Guide ND-60.195.1 EN



NOTE: ● The parts of this manual that have been revised have screen pictures that refer to version C. The screen pictures for the rest of the manual refer to version B.

- Chapter and section numbers in PART 2 correspond to the menu or function numbers.
- The index has been revised to correspond to the revised chapter 2 of PART 2.

----->>>>

**WHAT IS NEW IN THIS
VERSION OF TPS-IIB**

The most important changes are the following:

- The menu for Normal Operation is changed.
- The menu for Maintenance has new forms.
- Function keys are changed. (See the Standard Notation page.)

VERSION C:

- The various screen forms in the report system are changed to handle a number of different SINTRAN-III batch processors.
 - The TPS-II backup system may handle backup/recovery to/from streamer tapes.
-

T A B L E O F C O N T E N T S

<u>Section</u>	<u>Page</u>
P A R T .1.	
1 WHAT IS TPS-II ?	3
1.1 The Hardware in TPS-II	4
1.2 The Terminal	5
1.3 Magnetic Disks	6
1.4 Flexible Disks (Floppy Disks)	7
1.5 The Line Printer	8
1.6 Starting the Computer	9
2 THE VARIOUS FUNCTIONS IN TPS-II	13
2.1 Identification of the Operator	13
2.2 The Main Menu	14
2.3 An Overview of the Menu Relationships	15
2.4 The Structure of Menu Pictures	16
P A R T .2.	
1 OPER - NORMAL OPERATION	21
1.1 START - Start Systems	22
1.2 STOP - Stop Systems	23
1.3 ABEND - Abend Systems	24
1.4 STATUS - Status	25
1.4.1 SSYST - Systems	26
1.4.2 STERM - Terminals	27
1.5 MESS - Send Message	28
1.5.1 MSYST - To User System	28
1.5.2 MTERM - To a Terminal	28
1.5.3 MALL - To All Terminals	28
2 REPO - REPORT SYSTEM	31
2.1 RSTAT - Status	32
2.2 RPRINT - Hard Copy	34
2.3 RDELET - Deletion	36
2.4 RMAN - Start Manual Reports	38
2.5 RSTART - Start Report System	39
2.6 RSTOP - Stop Report System	40
2.7 RDEF - Define Reports	41
2.8 ORDERING REPORTS	44
3 COPY - COPY FUNCTIONS	49

Section	Page
3.1 Security Copying: an Example	50
4 MAINT - MAINTENANCE	53
4.1 TERM - Terminals	54
4.2 TUSER - Users	55
4.3 FGRP - Function Groups	57
4.4 MEFU - Definition of Menus and Functions	58
4.5 SYST - User Systems	60
4.6 SYDB - Databases	61
5 ABNO - ERROR CORRECTION	65
5.1 RCOVR - Restart after Error	65
6 SPEC - SPECIAL FUNCTIONS	69
6.1 NEWTRM - New Operator Terminal	69
6.2 CHECK - Checkpoints	70
6.2.1 MCHECK - Take Synchronized Checkpoint	70
6.2.2 CINT - Set Checkpoint Interval	70
6.2.3 CWGT - Set Checkpoint Weight	71
6.3 LOG - Log on File	72
6.3.1 LSTART - Start Logging on File	72
6.3.2 LSTOP - Stop Logging on File	72
6.3.3 LPRINT - Print Log File	72
6.3.4 LRESET - Reset Log File	73
6.4 TPS - TPS Functions	74
6.4.1 SPEC1 - Halt/Continue System	75
6.4.1.1 HALT - Halt System	75
6.4.1.2 HCONT - Continue after Halt	75
6.4.1.3 CSTP - Cancel Stop	75
6.4.2 SPEC2 - Rollback DB-System	76
6.4.3 SPEC3 - Functions/Modules Active/Passive	77
6.4.3.1 AUNA - Set Appl. Unavailable	77
6.4.3.2 AAVA - Set Application Available	77
6.4.3.3 BPSV - Close Module	78
6.4.3.4 BACT - Init Module	78
6.4.3.5 TACTV - Activate Application	78
6.4.3.6 TERMTP - Terminates TPT	79
6.4.4 SPEC4 - TPS Packet-Log On/Off	80
6.4.4.1 TRON - Trace On	80
6.4.4.2 TROFF - Trace Off	80
6.4.5 SPEC5 - TPS Status Functions	81
6.4.5.1 TPSRMS - Read-Module-Status	81
6.4.5.2 TPSRUS - Read-Unit-Status	81
6.4.5.3 TPSRAS - Read-Application-Status	81
6.4.5.4 TPSRTT - Read-Task-Table	81
6.4.6 SPEC6 - Set TPS-II Status Words	82
6.4.6.1 GTNO - Reset Terminal Table (no.)	82

Section	Page
6.4.6.2 GTSYS - Reset Terminal Table (system)	82
6.4.6.3 GTALLE - Reset Terminal Table (All)	82
6.4.6.4 GBASE - Set Database Status Word	83
6.4.6.5 GCOSMO - Set "COSMOS" Word	83
 7 ESYST - EXIT TO OTHER SYSTEMS	 86
7.1 EUSER - Exit to User System	86
7.2 ESINT - Exit to SINTRAN III	86
7.3 EOPER - Exit to Operator Log-in Picture	87

APPENDIX

A	ERRORS AND ERROR MESSAGES	88
B	COMMANDS IN SINTRAN - REGISTRATION OF OPERATORS	100
C	TPS-II COMMANDS REFERENCE LIST	104
 Index		 111

STANDARD NOTATION

.....

In the text you see:	What it means or what it is used for:
<u>QSTART</u>	<ul style="list-style-type: none"> Text typed in by the user is <u>underlined</u>. All operating system commands must be terminated by ↵.
Q	<ul style="list-style-type: none"> This is the SINTRAN III prompt sign. It indicates that you are in touch with the computer's operating system and can give it commands.
M	<ul style="list-style-type: none"> Keytops are shown in this way.
↵	<ul style="list-style-type: none"> This represents the carriage return key. On the terminal it may be marked ↵, CR, RETURN or ENTER.
↶	<ul style="list-style-type: none"> This represents the HOME key.
⌫	<ul style="list-style-type: none"> This represents the delete key.
HELP	<ul style="list-style-type: none"> HELP key. Pushing this key will, in most cases, give you help information.
FUNC - Q	<ul style="list-style-type: none"> If the picture on the screen has disappeared, you can get it back by presing the FUNC key followed by the Q key.
CTRL + W	<ul style="list-style-type: none"> This is an example of a CTRL combination. It means you press the CTRL key and hold it down while you press W.

P A R T . 1.

CHAPTER 1
WHAT IS TPS-II ?

.....

- WHAT IS TPS-II ?
- THE HARDWARE IN TPS-II
- THE TERMINAL
- MAGNETIC DISKS
- FLEXIBLE DISKS
- THE LINE PRINTER
- STARTING THE COMPUTER

1 WHAT IS TPS-II ?

TPS-II with NORDRIFT is a system that can supervise several other systems. The systems that are supervised are generally different types of user systems such as accounting systems, salary systems and so on.

What Can You do
With TPS-II ?

With TPS-II

- you can start and stop different types of information systems (databases);
- you can print out reports from databases;
- you can keep control of data files;
- you can define which users or terminals can have access to different parts of the system.

Who is Responsible for
the TPS-II System ?

The TPS-II system controls the activity in the computer. Messages of interest are sent to the operator's terminal. Corrections in the system are always made from the operator terminal.

The Operator

The operator is responsible for the daily operation of the TPS-II system. He is responsible for starting and stopping the individual user systems, for producing reports, and for taking security copies of processed data. The operator usually works at the operator terminal.

The System Supervisor

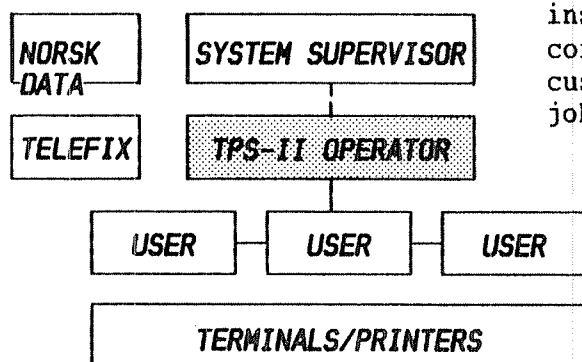
The system supervisor is responsible for the entire computer installation. System failures are usually reported to him.

The User

The individual user usually works with the user systems s/he has been authorized to use.

Service Personnel

Norsk Data's service personnel may be summoned if there are errors in the installation or if the programs must be corrected. You may also use Norsk Data's customer service TELEFIX for a repair job.

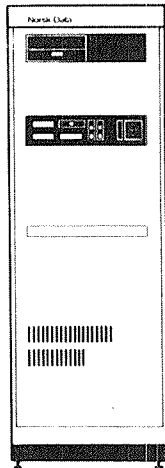


The organization of personnel on the TPS-II system

1.1 THE HARDWARE IN TPS-II

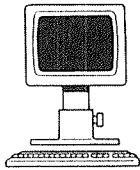
The hardware that is typically used in the TPS-II system is shown here:

The ND-100 Computer
central processing unit



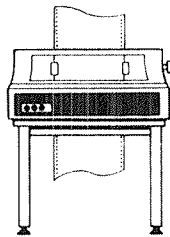
The most important part of the computer is the Central Processing Unit (CPU). The programs are executed in the CPU. On the ND-100 the CPU is placed in one cabinet, and on the ND-500 it is placed in two cabinets.

Together with the CPU, the cabinet also houses an internal storage. The part of the system currently being processed is stored here. The internal storage also holds the processing data, the input data, which is to be processed, and the output data resulting from it.



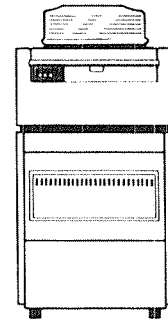
The Terminal

The Terminal
input device
output device



The Printer

The Printer
output device



The Magnetic Disk Device

Magnetic Disk Device
external storage

The program and the input data are usually "fed" to the computer via an input device such as a terminal.

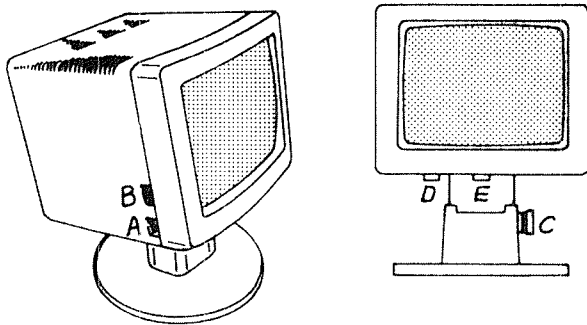
The results, the output data, are usually taken out of the computer's internal storage on a printer, or stored on an external device such as the disk.

Normally there will not be enough room in the internal storage to store large amounts of data for longer periods of time. For this reason computers use an external storage such as a magnetic disk device.

All the devices which are connected to the computer are called peripheral units. Both the computer and the peripheral units have power switched ON when working.

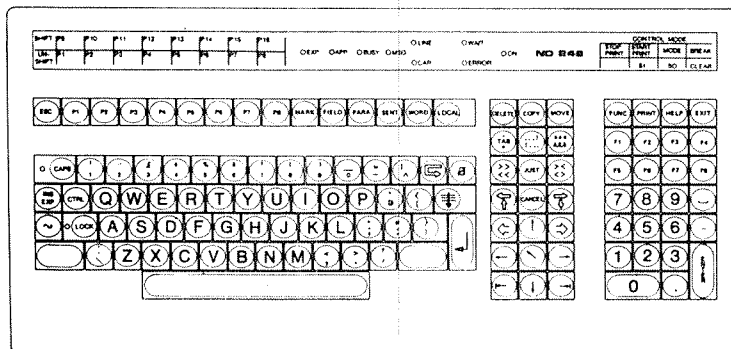
The terminal is both an input and an output device. With the terminal keyboard you can enter data, or correct data already present in the system. You can check you input data on the terminal screen, which will also be used to accept messages from the system.

The Terminal Screen turning ON and OFF



- A - to turn the terminal ON or OFF
- B - to regulate light intensity of screen
- C - to regulate the height of the screen
- D - to regulate the angle of inclination
- E - to regulate the angle in proportion to foot.

The keyboard is shown here below. We will mention only the most important keys here. The functions of the keys are described in the text, at the appropriate places.



Carriage
Return key



Home key



If the picture
on the screen
has disappeared
you can get it
back by pressing
these two keys



Pressing the HELP
key will give you
help information

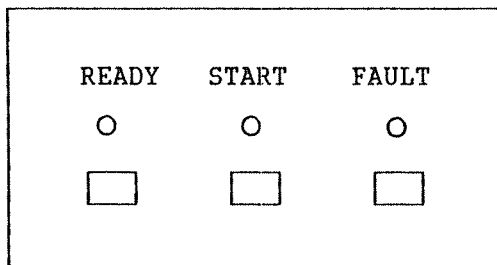
1.3 MAGNETIC DISKS

A magnetic disk is an external storage device which can hold large amounts of data. The disk unit contains one or more magnetic disks (disk packs).

Care of the Disk Unit

- Handle disks very carefully;
- avoid great variations in temperatures;
- avoid direct sunlight;
- avoid electro-magnetic fields;
- do not drop the disks.

The Disk Unit Panel



The panel on a disk unit is shown here. The "Ready" and the "Start" lamps are lit when the disk is in operation. The cover of the disk unit must not be opened at this stage.

The "Fault" lamp will be lit if there is an error on the disks. The disks can be restarted by pressing the ERROR switch. If the lamp remains lit after this, stop the disk unit and contact the system supervisor.

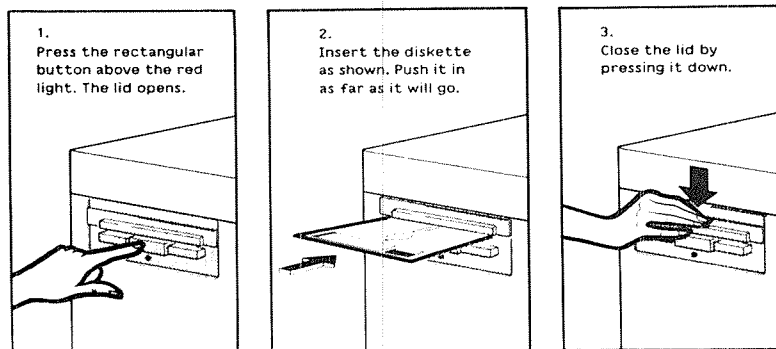
Changing Disk Packs

- 1) Press the switch under the "Start" lamp. The "Ready" lamp and the "Start" lamp will now start to blink. When they have gone out, the disks have stopped rotating and the disk unit cover may be opened.
- 2) Open the cover and put on the lid that belongs to the disk pack. If you are removing the disk, turn the lid anticlockwise. Turn until you hear a click. Lift up the disk pack and place it in its case. A clip mechanism in the case holds the disk in place.
- 3) If a new disk is to be placed in the pack, reverse the procedure: remove the disk from its case and place the new pack in position together with its plastic lid. Take the lid off by turning it clockwise.
- 4) You can restart the disk by pressing the "Start" switch. When the "Start" and "Ready" lamps are both showing a steady light, the pack is ready for use.

1.4 FLEXIBLE DISKS (FLOPPY DISKS)

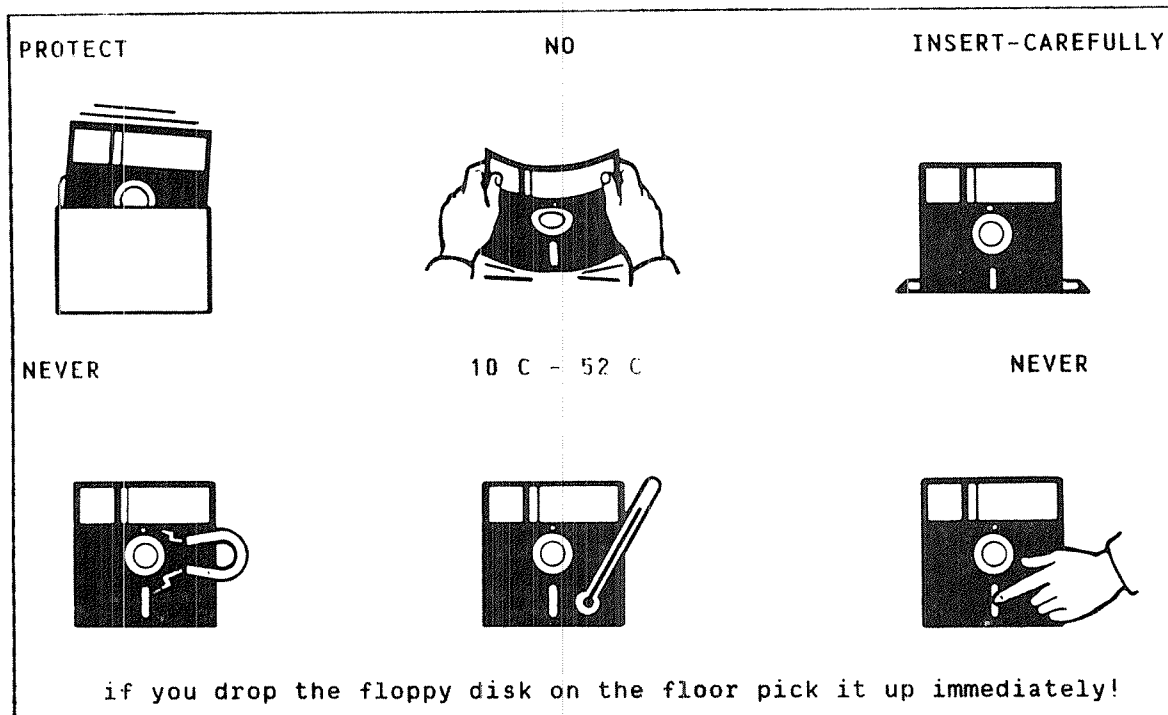
A floppy disk is also an external storage device. It stores considerably less data than a hard disk. But, it has the advantage of being easy to handle, easy to install and easy to transport.

The disk drive for the floppy disks is normally situated at the top left-hand corner of the computer. The figure below shows how to insert a floppy disk in the disk drive.



How to Insert a Floppy Disk in the Disk Drive

Caring for The Floppy Disks



1.5 THE LINE PRINTER

The line printer is a useful output device for producing hard-copy output of your data, reports and so on. There are several types of line printers. Most manufacturers provide operating instructions for their products. However, the basic procedures are usually the same for most printers. Here, we will provide a brief account of the Terminet printer.

The Terminet Line Printer Opening the Printer

To open the printer, just lift the cover above the paper.

Feeding Paper

The opening for feeding the paper (the forms) is on the underside of the machine. The paper is inserted between the roll and the ribbon.

Regulating the Sheet Length

Paper sheet length is usually measured in inches (ca. 2,5 cm.). For every sheet length, insert a guide tape of corresponding length. Guide tape is a punched tape. There are different sizes of guide tapes for each printer. If the sheet length is permanent the correct tape will usually be on. The guide tape is put on a toothed wheel on the left side of the printer. Make sure that the wheels on the tape grip the teeth on the toothed wheel!

Regulating the Sheet Width

The feed paper must also fit into the two toothed wheels on the roll which drive the paper forwards. Lock the paper properly between the toothed wheel.

Setting the Sheet Top

Some forms have a mark showing exactly where the top line is to be printed. To adjust the paper to a proper position, move the paper backwards or forwards using the knob on the side of the printer.

Starting the Printer

You can establish contact between the printer and the computer by pressing the switch marked "ON LINE".

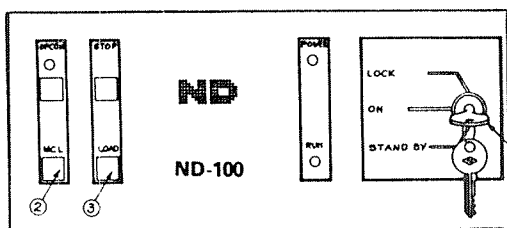
After printing out nonstandard forms, reset the printer to standard format! The printer should normally be set to standard format. Readjustments should be made only when you use nonstandard forms.

Run a test printout to check the proper positioning of the paper. If you are not satisfied with the positioning of text on the paper, stop the printer by using the "LOCAL" switch, and make the appropriate adjustments. When all adjustments are made, press the "ON LINE" switch again to restore contact with the computer.

1.6 STARTING THE COMPUTER

Normally the computer, as well as the terminals, the disk units and the printers, will be ON continuously.

Starting the Computer



- 1) Set the key in "ON" position and press the keys marked STOP (2) and MCL (MASTER CLEAR) in this order. Wait for a few seconds until the computer answers with a signal on the console.
- 2) Switch on the disk unit as described in section 1.3. Wait until the disk unit has started.
- 3) Switch on the operator's terminal.
- 4) On the computer, press the switch marked LOAD (4). The lamp marked RUN (5) should now light up. The computer now begins to work and writes out messages on the console.
- 5) Turn the key to the position LOCK (6).
- 6) Turn on the other terminals and the line printer(s).
- 7) After a few minutes the picture shown here will appear on the operator's terminal asking for the correct time and date. This should be correct, otherwise the recovery of the databases controlled by TPS-II will not be performed correctly.

NORSK DATA TPS-II OPERATORS TERMINAL	
INITIAL DATABASE RECOVERY	Version B.
When reload of TPS-II finished the time was: - .. - ..	
Is this correct now ? : . (Type CR to get the present time)	

- If the time and date are not correct, enter the correct time and date.

Watch out for error messages at this stage.

TPS-II Initialization

If the computer is started properly, the screen picture shown in section 2.1 appears.

You should now be ready to take off!!!

—end of chapter—

P A R T .1.

**CHAPTER 2
THE VARIOUS FUNCTIONS IN TPS-II**

.....

- THE VARIOUS FUNCTIONS IN TPS-II
- THE MAIN MENU
- THE ORGANIZATION OF MENUS
- THE RELATIONSHIPS BETWEEN MENUS

2 THE VARIOUS FUNCTIONS IN TPS-II

2.1 IDENTIFICATION OF THE OPERATOR

After you have started the computer and recovered the databases, a picture for identification of the operator for TPS-II appears on the screen. It may look like this (or it may have been modified for your installation):

NORSK DATA TPS-II OPERATORS TERMINAL				Version B	
*****	*****	*****	*****	*****	*****
*****	*****	*****	*****	*****	*****
***	***	***	***	***	***
***	***	***	***	***	***
***	*****	*****	***	***	***
***	***	***	***	***	***
***	***	***	***	***	***
***	***	*****	*****	*****	*****
***	***	*****	*****	*****	*****
NORSK DATA TRANSACTION PROCESSING SYSTEM					
Enter your name :					
Password :					

FIELD DESCRIPTION

Name The operator's name.

Password The operator's password.
A password is recommended if it is desirable to prevent intruders from having access to TPS-II.
See Appendix B for definition of operator's name and password.

The password is not displayed when you type it.

In the TPS-II screen pictures, the cursor will lead you from field to field to all the areas where data input is anticipated.

Filling in a field is terminated with a Carriage Return, ↵.

2.2 THE MAIN MENU

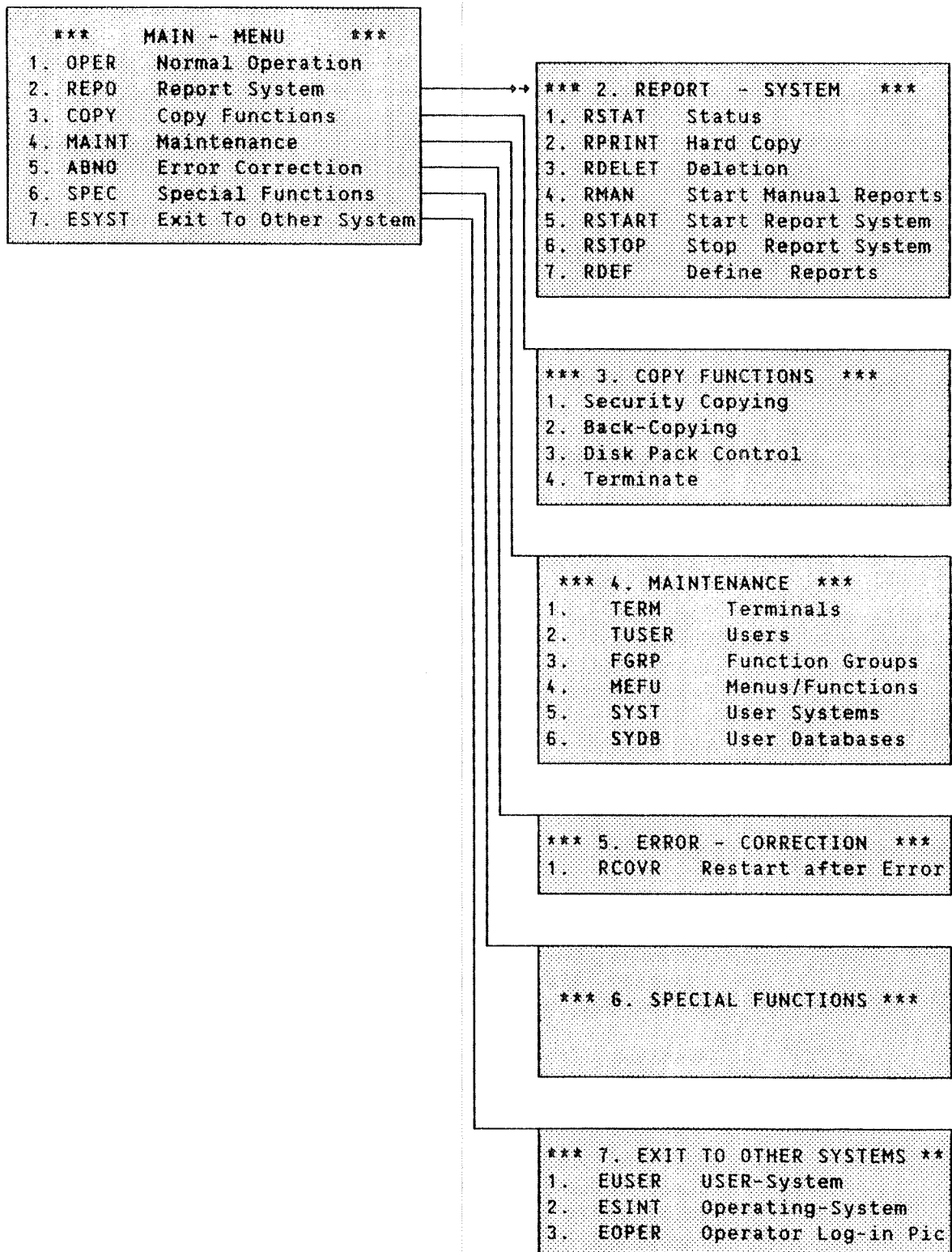
When you have entered the approved name and password, the main menu in TPS-II appears on the operator screen:

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** MAIN - MENU ***		==>	
1. OPER	Normal operation		
2. REPO	Report system		
3. COPY	Security copying		
4. MAINT	Maintenance		
5. ERROR	Error handling		
6. SPEC	Special functions		
7. SYST	Exit other systems		
Select :		Response :	
Log-lines:			

The 7 submenus have the following functions:

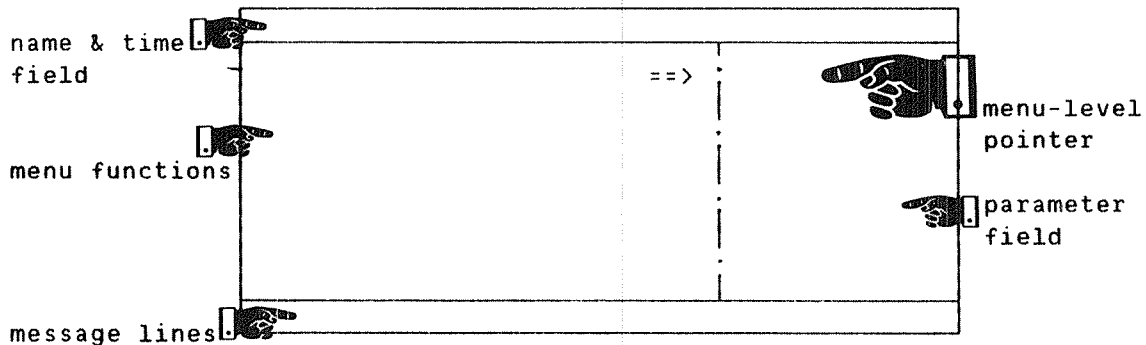
Normal Operation	contains the most commonly used functions for controlling the Control System and the different User Systems under TPS-II.
Report System	contains functions for defining, producing, printing and deleting reports. It also contains a function for checking the status of ordered or ready-made reports.
Security Copying	contains functions for security copying, backup copying and for controlling disk packs used under TPS-II.
Maintenance	contains functions for registering, changing and displaying data on the different User Systems, terminals, users, databases and menus under TPS-II.
Error Handling	contains a command for getting a User System under TPS-II out of an error situation.
Special Functions	contain functions for special situations, for example, for transferring the control system to another terminal.
Exit To Other Systems	releases the operator's terminal so that it can be used for regular work or for registering data on data files.

2.3 AN OVERVIEW OF THE MENU RELATIONSHIPS



2.4 THE STRUCTURE OF MENU PICTURES

Most menus (and submenus) are organized as shown below.



The top area of the menu identifies the name, the time and the date.

The middle area contains the list of menu functions, an arrow showing the menu level currently in use, and a field indicating the parameters of the chosen menu function.

Menu Functions You can choose a menu function by typing in the function number or its abbreviation (followed by \leftarrow).

Menu-Level Pointer The menu level currently in use is shown by the arrow pointing at one of the four dots in the middle area. The Arrow at the topmost dot is for the main menu, and the lower dots are for the lower level (sub)menus.

Parameter Fields The middle area also contains the parameter fields. The parameters displayed here indicate how a command is to be executed.

The lower part of the screen has the following functions:

Select In this field you enter the abbreviation of the function you want to execute. If the function is on another submenu, the corresponding submenu will be displayed. You also jump to any submenu by entering its number (for the submenu numbers, see the next page).

Response Messages from TPS-II will be displayed in this field. The message can, for instance, be that it will take time before the function comes up on the screen.

Log-Lines The LOG-LINES fields will display messages of up to three lines from the TPS-II system. The messages contain information concerning the results of executed functions, possible errors, and so on.

Examples of choosing functions:

You can choose function RSTART \leftarrow or 2 \leftarrow (get menu Report System)
RSTART like this: 5 \leftarrow (get function RSTART)
end of chapter

P A R T .2.

CHAPTER 1
THE NORMAL OPERATION

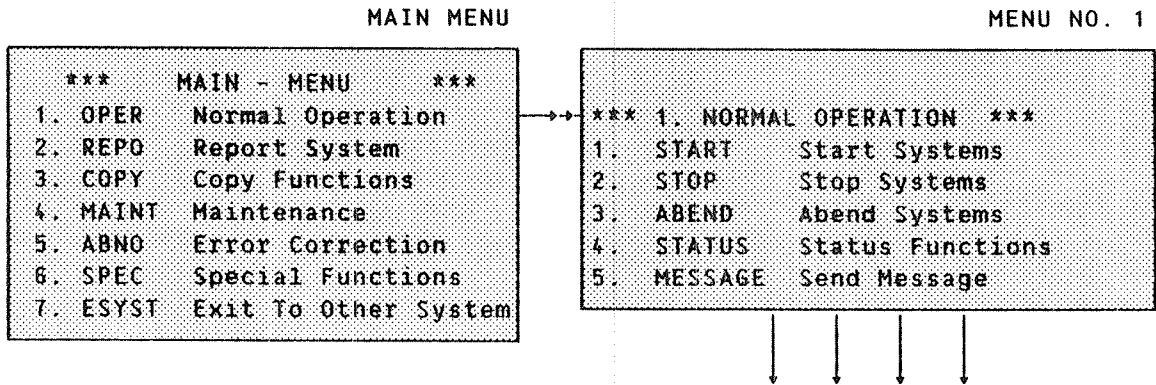
.....

- THE NORMAL OPERATION
- START START SYSTEMS
- STOP STOP SYSTEMS
- ABEND ABEND SYSTEMS
- STATUS SYSTEMS STATUS
- MESS SEND MESSAGE
- SSYST STATUS SYSTEMS
- STERM STATUS TERMINALS
- MSYST TO USER SYSTEM
- MTERM TO A TERMINAL
- MALL TO ALL TERMINALS

THE NORMAL OPERATION

The menu for Normal Operation contains the most important functions used for the daily operation of the TPS-II system.

You can select any command in this function by typing its abbreviation or its number.



MENU NO. 1.4

Example of selecting a command:

To select command STERM, type in

STERM+

or

1+ (gets menu Normal Operation)
4+ (gets submenu Status)
2+ (gets Command STERM)

```

*** 1.4. STATUS ***
1. SSYST Systems
2. STERM Terminals
          
```

MENU NO. 1.5

```

*** 1.5. SEND MESSAGE ***
1. MSYST To User System
2. MTERM To a Terminal
3. MALL  To all Terminals
          
```

~ A TYPICAL OPERATION AT A TPS-II INSTALLATION ~

Here we will describe some of the processes an operator might perform at a TPS-II installation during a normal working day.

On a typical installation the computer and the TPS-II system will run the whole day.

STARTING THE DAY

- Examine status reports.
- Print required reports.
- Dispatch reports to proper persons.

ENDING THE DAY

- Send a message to all terminals that you are stopping the system.
- Take a backup of the database.

DISK PACK COPYING

- Use the command COPY to take a backup.

STARTING NORMAL OPERATION

- Use the command OPER to get the main menu.

STARTING USER SYSTEMS

- Start the individual user systems with the command START.

PRODUCING REPORTS

- First discard previously produced reports with the command RDELET.
- Use the function RMAN to produce the desired reports.

That's a normal day's work with TPS-II.

1 OPER - NORMAL OPERATION

When you select function number 1 ("Normal operation") or OPER from the main menu, the following menu appears on the screen:

ND TPS-II OPERATORS TERMINAL		MENU NO. 1	
		08.59	Version B. 19. aug. 1984
*** NORMAL OPERATION ***			
1. START	Start Systems	==>	:
2. STOP	Stop Systems		
3. ABEND	Abend Systems		
4. STATUS	Status Functions		
5. MESS	Send Message		
Select : Response : Log-lines: <hour> <message> <hour> <message> <hour> <message>			

Choosing Command You can select the desired function by typing the function number or its abbreviation in the Command field.

Direct Commands START, STOP and ABEND are direct operator commands. STATUS and MESS commands lead to submenus.

Command Parameters If your TPS-II system controls only one user-application system, the commands START, STOP and ABEND are carried out directly. If your TPS-II system controls many user-application systems, you will be prompted for parameters for these commands.

Cancelling Input Parameter Values If you change your mind, you can cancel the input parameter values by pressing the key marked "FUNC" and then the "home" key.



NOTE:

It may take time for a command to be executed !!

In the following pages we will describe each of the available functions in the menu.

----->>>>>

1.1 START - START SYSTEMS

With this command you can start the various User Systems (accounting, salary, stock holding, etc.) that are under TPS-II.

.A. TPS-II WITH ONE USER-APPLICATION SYSTEM.

When only one user application is defined under TPS-II, you will not be asked to enter any parameters. When the command is accepted, the following message appears on the log lines:

Select : 1	Response : TPS-II AND SYSTEMS STARTED
Log-lines: 10.25.30	- CONTROL-STARTED
10.25.72	- REPORT MONITOR STARTED
10.25.35	- SYSTEM-1 STARTED

.B. TPS-II WITH MORE THAN ONE USER-APPLICATION SYSTEM.

When TPS-II controls several user-application systems, the following screen picture is displayed:

MENU NO. 1.1

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** NORMAL OPERATION ***		.	
1. START	Start System	.	0. Control
2. STOP	Stop System	.	1. System-1
3. ABEND	Abend System	.	2. System-2
4. STATUS	Status Functions	==>	-1. All Systems
5. MESS	Send Message	.	Select System :
Select:	Response :		
Log-lines:			

SYSTEM SELECTION:

- 0 : Start control system. The TPS-II control system should always be started before you start other systems.
- 1 : Start the specified system. If the systems are started individually, they also have to be stopped individually.
- 2 : Start the TPS-II control system and the user systems (with one command).

----->>>>

1.2 STOP - STOP SYSTEMS

Use This command closes the TPS-II system.

The users who are inside a function in the User System when the STOP-command is given, are allowed to complete their operation. However, the users will not be allowed to select a new function.

Note Before using the command, check via the function STERM (Status terminals, menu 1.4.2) which terminals are active, and send a message to them by using the function MTERM (Send message to terminal, menu 1.5.2).

If a user has left his terminal in a user application, it may take time to actually close the system.

If your system controls more than one user-application system, you will have to close them one by one (if the systems have been defined individually).

If the command is successful, the following message is displayed:

Select	:	STOP	Response :	TPS-II AND SYSTEMS CLOSED
Log-lines:	:	15.30.01 - SYSTEM-1 - STOPPED		
	:	15.30.03 - CONTROL - STOPPED		
	:			

At close-down, the TPS-II checks the current free space in the database system and in the serial realms. If you get a message like: 12.05.05 - SYSTEM-1 - XXREALM IS 98% FULL contact your system supervisor.

----->>>>>

1.3 ABEND - ABEND SYSTEMS

Use With this command, the TPS-II systems will stop immediately.

If there is more than one user-application system under TPS-II, you will have to ABEND them individually (if the systems were started individually).

Note This command must be used only when it is absolutely necessary to stop the system immediately.

Effect A user who is in the middle of a function in the User System, will be terminated. If a registration function has been terminated in the middle of the registration, the register may be only partially updated.

This command must be used with care!

It may take some time before the termination message, like the one below, appears on the screen.

Select : 3	Response : TPS-II AND SYSTEMS ABENDED
Log-lines: 15.30.30 - SYSTEM-1 - STOPPED	
: 15.30.32 - CONTROL - STOPPED	
:	

1.4 STATUS - STATUS

This menu contains functions showing the state of TPS-II and the various systems linked to it.

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 1.4. STATUS - FUNCTIONS ***			
1.	SSYST Systems		
2.	STERM Terminals		
		==>	
Select :		Response :	
Log-lines:			

This menu has two functions, SSYST and STERM.

SSYST SSYST can be used to examine the status of the systems controlled by TPS-II.

STERM STERM can be used to examine the status of all individual terminals linked to TPS-II.

Details of these two functions are given on the following pages.

----->>>>

1.4.1 SSYST - SYSTEMS

This routine is used to examine the status of the various User Systems under TPS-II. The following picture is shown as an example of what appears on the screen:

ND TPS-II OPERATORS TERMINAL			Version B. 10.17 28. aug. 1984		
System no.	System name	Active Terminals	System type	System status	Report status
1	ACCOUNTING	4	DB	STARTED	FREE
2	PERSONAL	2	DB	STARTED	FREE
3	NOTIS	3			
0	CONTROL SYSTEM			STARTED	STARTED
Active terminals inside TPS-II : 6					
Active terminals outside TPS-II : 3					
Display / Terminate : .					

FIELD DESCRIPTION

COL.NO.	FIELD NAME	MEANING
1	System no.	The numbers of the User Systems controlled by TPS-II.
2	System name	The names of the User Systems controlled by TPS-II.
3	Active terminals	The number of user terminals presently using this User System.
4	System type	DB if database system, else "nothing".
5	System status	The present status of the User System (STARTED/STOPPED/IN ERROR).
6	Report status	Indicates report system activity.
	Active terminals in TPS-II	Shows how many terminals are occupied with tasks (of DB type) in the TPS-II system.
	Active terminals outside TPS-II	States how many terminals are occupied with SINTRAN III system.
	Display/Terminate	T : return to the main menu. D : display status at the present time.

1.4.2 STERM - TERMINALS

With this function you can examine the status of the individual user terminals linked to TPS-II. The picture below is an example of what may appear on the screen:

ND TPS-II OPERATORS TERMINAL USER-TERMINAL STATUS				Version B. 10.17 28. aug. 1984
Terminal	Linked to system	Linked to function	Linked to TPT-no.	Page : 1
7	PERSONAL	2 FUNCADM	2	
15	PERSONAL	2 FUNCADM	3	
36	ACCOUNTING	62 KONT	102	
48	Operator terminal			
Display/Terminate : .				
Page no.: .				

FIELD DESCRIPTION

COL. NO.	FIELD NAME	MEANING
1	Terminal	SINTRAN III device number for the TPS-II terminals.
2	Linked to system	Which User System is presently in use on the terminal.
3	Linked to function	Which tasks are being carried out on the terminal.
4	Linked to TPT-no.	This number is of interest only to the service personnel.
	Display/Terminate	Used to "turn" the pages if the number of terminals is larger than what can be shown on the screen. "D" is used to turn. The cursor will then move to "Page no.", for you to specify the page wanted. If there is only one page, nothing will happen. "T" gives exit from the function.

1.5 MESS - SEND MESSAGE

This function contains three commands for sending out messages to user terminals linked to TPS-II. The menu is called by selecting function 1.5.

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 1.5 SEND MESSAGE ***		:	M E S S A G E
1. MSYST	To user system	==>	Write the message in
2. MTERM	To a terminal	:	the following 3 lines
3. MALL	To all terminals	:
		:
		:
Select :	Response :		
Log-lines:			

1.5.1 MSYST - TO USER SYSTEM

Use To send a message to all terminals presently linked to a chosen User System.

How to Send Messages First select the required User System. Enter the message in the proper field.

The message is sent to all active terminals in the User System. It will be written out on the bottom part of the user's terminal screen:

Example:
 ===> MESSAGE FROM TPS-II OPERATOR <===
 Hello! Hello! Please terminate immediately.

1.5.2 MTERM - TO A TERMINAL

Use To send a message to a specific user terminal logged in and linked to TPS-II. The terminal number and the message lines are entered in the right "window" of the operator's terminal.

1.5.3 MALL - TO ALL TERMINALS

Use To send a message to all user terminals registered under the maintenance function 4.1 (TERM "Terminals"). The message is entered in the right "window" of the operator's terminal.

—end of chapter—

CHAPTER 2
THE REPORT SYSTEM

.....

- THE REPORT SYSTEM
- RSTAT STATUS
- RPRINT HARD COPY
- ROELET DELETION
- RMAN START MANUAL REPORTS
- RSTART START REPORT SYSTEM
- RSTOP STOP REPORT SYSTEM
- RDEF DEFINE REPORTS
- ORDERING REPORTS

```
***  MAIN - MENU  ***
1. OPER  Normal Operation
2. REPO  Report System
3. COPY  Copy Functions
4. MAINT  Maintenance
5. ABNO  Error Correction
6. SPEC  Special Functions
7. ESYST Exit To Other System
```

→

```
***  REPORT - SYSTEM  ***
1. RSTAT  Status
2. RPRINT  Hard Copy
3. RDELET  Deletion
4. RMAN   Start Manual Reports
5. RSTART  Start Report System
6. RSTOP  Stop Report System
7. RDEF   Define Reports
```

2 REPO - REPORT SYSTEM

The TPS-II report system contains functions for defining, ordering, running, printing and deleting reports. It also has a function for examining the status of ordered reports. You can choose the functions from the following menu.

ND TPS-II OPERATORS TERMINAL		Version C.	
		08.59	19. april 1985
*** REPORT - SYSTEM ***			
1.	RSTAT Status	==>	
2.	RPRINT Hard Copy		
3.	RDELET Deletion		
4.	RMAN Start Manual Reports		
5.	RSTART Start Report System		
6.	RSTOP Stop Report System		
7.	RDEF Define Reports		
Select :		Response :	
Log-lines:			

Who can order reports ?

Reports are ordered from individual user terminals running under TPS-II User Systems.

Reports may be ordered for periodical or once only execution. After the first order of a periodical report has been executed, the report system will automatically store a new order for the next running date. This is calculated by the system depending on the given period at the first order (e.g., daily, weekly, monthly).

A report can be defined to start automatically or manually. A report that is ordered to start automatically will be run as soon as the order has been made. When starting a manual report, the function RMAN (Start manual reports (2.4)) must be used from the operator's terminal.

Defining and ordering reports must be done from the operator's terminal. This is described in the last two sections of this chapter.

Error messages

Error messages in the various functions are self-explanatory.

----->>>>>

2.1 RSTAT - STATUS

This function is used to examine the status of the individual ordered, active and run(ning) reports under the TPS-II report system. The function must be used from the operator's terminal. The following picture (here with examples) appears on the screen:

ND TPS-II OPERATORS TERMINAL STATUS REPORTS					Version C. 10.17 28 april 1985			
Report status (W/A/O/E/ ↵ =all) : .								
User system	Report name	List serial no no	Report type	Ordered by	Run date	Report status	Batch no.	Set for start
ACCOUNT. RE	020	140530..	SIJ	180585	WAITING	1	Y
ACCOUNT. RE	030	091000..	PERIOD.	ABC	160585	OK	2	.
.....
.....
More (N/+/-): ..					Page no : ..			

FIELD DESCRIPTION

COL.NO.	FIELD NAME	MEANING
---------	------------	---------

	Report status	Enter a letter depending on what you want to view.
	Legal values	W : List all ordered (waiting) reports. A : List all reports with status ACTIVE. Normally, there will be only one report. O : List all reports with status OK. E : List all reports with status ERROR. ↵ : Lists all ordered reports. (See column no. 7 for Report Status).
1	User system	Name of the User System the report originates from.
2	Report name	Short name of the report.
3	List serial no.	Number identifying the result lists belonging to this report.
4	Report type	PERIOD : Report is ordered for periodical running. Else : Report is ordered for running once.
5	Ordered by	Name of the terminal user who has ordered the report.

>>>>>

- 6 **Run date** The date on which the report is to be run.
- 7 **Report status** WAITING : The report is ordered, but not run.
 ACTIVE : Report is running.
 OK : Report has been run and terminated
 normally.
 ERROR : Report has been run, but interrupted
 because of an error during runtime.
- 8 **Batch no.** Indicates which batch processor no. the report
 is going to use or has used.
- 9 **Set for start** Marked Y (Yes) by the system if the report is set
 to run but waiting in a queue to be executed.
- More (N/+/-)** N : terminate and return to the next level.
 + : turn to next page (if there are more than 10
 reports).
 - : turn to the previous page.
- Page no.** Shows which page you are currently on.

2.2 RPRINT - HARD COPY

This function produces a hard copy of the reports from the result lists. The function will send result lists to a declared printer.

If the result list is to be printed out on nonstandard listing paper, a message about the required form is written out on the computers error device when the list is ready for printing. The printing starts when the operator has executed the SINTRAN command START-PRINT (see Appendix B) on the console.

The following screen picture (here with examples) is displayed.

ND TPS-II OPERATORS TERMINAL HARD COPY OF REPORTS						Version C. 10.17 28 april 1985			
Include previously printed? : .									
User system	Report name	Ordered by	List serial no	Form type	No. Print? pag.(Y/N)	No. Cop.	Print.name		
ACCOUNT. RE	030	ABC	091000-1	STANDARD	15 Y	2	LINEPRINTER.		
ACCOUNT. RE	020	SIJ	091020-1	STANDARD	45 .	1	LINEPRINTER.		
.....		
.....		
.....		
More (N/+/-) : ..						Page no : ..			

FIELD DESCRIPTION

COL.NO. FIELD NAME

MEANING

Is previously written to be included?

Y : The names of all result lists previously printed will be displayed on the screen and may be sent for printing once again.

N : Only result lists which have not been printed out previously are included in the picture.

When this field has been filled in, the system automatically fills in the first six columns of the table below. The cursor moves through all the fields in the upper columns, so that they can be filled by the operator.

1

User System

Name of the User System the report belongs to.

>>>>>

- | | | |
|---|---------------------------|--|
| 2 | Report name | Short name of the report. |
| 3 | Ordered by | Signature of the terminal user who has ordered the report. |
| 4 | List serial number | Identification of the result lists belonging to this report. |
| 5 | Form | Form type connected to this result list. |
| 6 | No. pages | The number of pages generated by the report in this result list. |
| 7 | Print (Y/N) | Indicate here whether the result list is to be sent to a printer or not.
Y : YES, send this result list to a printer
N : NO, the result list is not to be printed. |
| 8 | No. copies | Give the number of hard copies required of the result list. (Default value: The number defined in RDEF - Define reports, function 2.7). |
| 9 | Printer name | The name of the printer to which the result list is sent.
Default value: the printer declared in the terminal user's function "Ordering of Reports", (see section 2.8). |
| | More (N/+/-) | N : terminate and return to the next level.
+ : turn to next page (if there are more than 10 reports).
- : turn to the previous page. |
| | Page no. | Shows which page you are presently on. |

2.3 RDELET - DELETION

The function is used to delete report orders and corresponding result lists, after the function report has been executed and is no longer current. This is useful because of the limited capacity in the computer's external storage. It should, therefore, be used every time a report is generated. Normally this will be used for reports with status OK or ERROR. The function may also be used in error situations to delete reports with status WAITING or ACTIVE, but in such cases the system supervisor should be contacted first.

This function must be used from the operator's terminal. The following picture appears on the screen (here with examples):

ND TPS-II OPERATORS TERMINAL DELETE REPORTS						Version C. 10.17 28 april 1985		
Report status : .								
User system	Report name	List serial no	Run date	Ordered by	Report status	All printed (Y/N)?	Delete (Y/N)?	
ACCOUNT.	RE 030	091000	830520	ABC	WAITING	Y	Y	
ACCOUNT.	RE 020	091020	830518	SIJ	OK	N	N	
.....	
.....	
.....	
More (N/+/-) : ..						Page no : ..		

FIELD DESCRIPTION

COL.NO	FIELD NAME	MEANING
--------	------------	---------

Report status	Type of reports to be listed. W : Waiting, ordered reports. A : Active, presently running reports. Use this only if a report is blocked in this status after an error! O : O.K. Reports are run and terminated normally. E : Error. Reports that are run, but interrupted because of an error. +J : Normal. Reports that are run and terminated normally.
---------------	---

After you fill in this field, the system fills in the seven first columns of the main field. The cursor moves to column no. 8 for further input.

----->>>>

- | | | |
|---|---------------------------|--|
| 1 | User System | Name of the User System belonging to the report. |
| 2 | Report name | Abbreviation of the report's name. |
| 3 | List serial number | Number identifying the result lists belonging to the report. |
| 4 | Run date | The date the report was run or ordered to run. |
| 5 | Ordered by | Identification of the terminal user who has ordered the report. |
| 6 | Report status | Status of this report.
WAITING : The report is waiting to run.
ACTIVE : The report is presently executing (or has terminated abnormally in this state).
OK : The report has been run and terminated normally.
ERROR : The report has been run, but interrupted because of an error during runtime. |
| 7 | All printed? | The field shows if all the reports' result lists have previously been sent to a printer. |
| 8 | Delete (Y/N)? | Are the report and corresponding result lists to be deleted? |
| | More (N/+/-)? | N : terminate and return to the next level.
+ : turn to next page (if there are more than 10 reports).
- : turn to the previous page. |
| | Page no. | Shows which page you are presently on. |

2.4 RMAN - START MANUAL REPORTS

The function is used to order reports that are to be started manually. The following picture appears on the screen (here with examples). The first 5 columns in the main field are filled in by the system, the last 4 are filled in by the operator.

ND TPS-II OPERATORS TERMINAL START MANUAL REPORTS					Version C. 10.17 28 april 1985			
The following reports are ordered for manual start :								
User system	Report name	List serial no.	Report type	Ordered by	Starting (Y/N)?	Start-time Date	Hour	Batch no.
ACCOUNT.	RE 030	091000-1	PERIOD.	ABC	Y	230583	0800	1
ACCOUNT.	RE 020	091000-2	PERIOD.	SIJ	Y	220583	1405	2
.....
More (N/+/-)? : ..					Page no: ..			

FIELD DESCRIPTION

COL.NO.	FIELD NAME	DESCRIPTION
1	User System	Name of the User System the report belongs to.
2	Report Name	Short name of the report.
3	List Serial Number	The identification of the result lists belonging to the report.
4	Report Type	PERIOD. :The report is ordered for periodical execution. Else :The report is ordered to run once.
5	Ordered by	Signature of the terminal user who has ordered the report.
6	Starting (Y/N)?	Is the report to be started? Y : The report is set for start. N : The report will not be started.
7	Start Date	The date the report is to be executed.
8	Hour	The hour of execution.
9	Batch no.	Indicates which batch processor no. the report is going to use. Default: The value typed in RORDR ordering of reports.
	More (N/+/-)?	N : terminate and return to the next level. + : turn to next page (if there are more than 10 reports). - : turn to the previous page.
	Page no.	Shows which page you are presently on.

2.5 RSTART - START REPORT SYSTEM

Before a report can be executed, the command START (Start System (1.1)) must be given. If the report system has stopped because of an error, or if it has been stopped manually via the command RSTOP (Stop report system (2.6)), function RSTART may be used to start the report system again. The following message appears on the Log Line of the operator's terminal:

<hour> REPORT MONITOR - IS STARTED

2.6 RSTOP - STOP REPORT SYSTEM

Use this command to stop the TPS-II report system. No more reports will be started before the command RSTART (Start report system (2.5)) is given. Reports that are under execution will be finished before the report system stops.

NOTE! Only the execution of reports is stopped. Other functions in the report system may continue to be carried out. When the TPS-II report system has stopped, this message appears on the Log Line of the operator terminal:

<hour> REPORT MONITOR - IS STOPPED

2.7 RDEF - DEFINE REPORTS

All reports that are ordered from the operator terminals must be defined in the TPS-II report system. The system must have a description of the individual reports. This is done only once for each report, normally by the system supervisor at the time of initial installation. The command RDEF defines the reports. The following picture appears on the screen:

ND TPS-II OPERATORS TERMINAL DEFINITION OF REPORTS		Version C. 10.17 28 april 1985	
System-name :		Report-name :	
Can be ordered for automatic start ? : .	Run-group : No. of files : .	TPS-report ? : .	TPS-appl.no. : ...
Can be ordered for periodic exec. ? : .	Form types : No.of copies :	Batch no. :	SINTRAN user :
----- Parameter definitions -----			
No. Name	Min Max Ctrl. char. char. code	Values Lowest valid Highest valid	
..	
..	
..	
<COMMAND>		:	

FIELD DESCRIPTION

COL.NO.	FIELD NAME	EXPLANATION
---------	------------	-------------

System-Name	The field is automatically filled in with the name of the user system the function is selected for. The remaining fields are filled in by the system supervisor.
-------------	--

Report-Name	The report's short and full name. The short name is the function name given in function 4.5 MEFU - Menu/Functions and in :PROG-name if it is a batch report.
-------------	---

Can be Ordered for Automatic Start	The field shows whether the report can be ordered for automatic, or manual start.
------------------------------------	---

Legal values are:

Y : The report may be ordered for automatic start.
N : The report may be ordered for manual start.

----->>>>>

Can be Ordered for Periodic Start	Define whether the report can be ordered for periodic start. Legal values are: Y : Can be ordered for periodic start. N : Cannot be ordered for periodic start.
Run-Group	Individual programs are associated with specific run-groups. The run group defines the order in which the reports are run. For reports ordered simultaneously, the lowest run group is processed first. Legal values are: 1 - 9
No. of Files	This defines the number of output (result listings) files the report will create. Accepted values : 0 - 5
Forms	For each result listing, give the form type. Accepted values: determined by the installation.
No. of Copies	The number of copies of each result listing which are to be produced on the printer is given here (this is controlled by function 2.2 RPRINT - Hard Copy).
TPS-Report ?	The field defines whether the report will run as an application controlled by TPS (this will normally be reports which are changing the data register), or whether it is to run under the SINTRAN III batch processor (normally applies only for reading of the data register). Legal values are: TP : TPS-II Application Program B1 : ND-100 Batch Program B5 : ND-500 Batch Program R1 : ND-100 NOTIS-RG Report R5 : ND-500 NOTIS-RG Report
Appl. Number	If the report is to run as a TPS-II application, the application number must be given here, otherwise it is set to 0. Valid numbers are: 30 - 255
Batch no.	Indicates which batch processor no. the report should use. (Default value in the function "RORDR ordering of reports").
SINTRAN-User	When the report is to be run by the batch processor, the SINTRAN user area where the :PROG-file is located must be given.
1	No. This field is filled in automatically.
2	Text The text supplied here will be written out as the parameter name when the report is ordered.

----->>>>

- 3 **Min. Chars.** Minimum number of characters (or symbols) which must be typed in when ordering reports.
- 4 **Max. Chars.** Maximum number of characters (or symbols) which can be typed in as the parameter when the report is ordered.
- 5 **Ctrl. Code** System control code given to determine how the parameter will be registered.
Accepted values:
1 : numeric single integer (0 - 4 digits)
2 : numeric double integer (0 - 9 digits)
3 : numeric characters (0 - 18 digits)
4 : date (YYMMDD) (6 digits)
5 : Year/week (4 digits)
6 : Year/Month (4 digits)
7 : date (DDMMYY) (6 digits)
10: alphabetic characters (0 - 18 chars)
11: alphanumeric chars. (0 - 18 chars)
12: code Y/N (1 char)
- NOTE: If the control code is given a minus sign, this will mean that the parameter will be of the same type and size as the parameter on the line above, but the value will be larger or the same. Additional control codes may be defined at each installation.
- 6 **Lowest Permitted** The lowest value permitted for the parameter should be given here.
- 7 **Highest Permitted** The highest value permitted for the parameter should be given here.
- <COMMAND>** The permitted commands can be entered in this field.
They are:
New/Remove/Display/Modify/Update/Terminate
- To get to the command field from another field in the picture, press the FUNC key followed by the HOME (↖) key.

2.8 ORDERING REPORTS

You can order reports from any user terminal running under TPS-II. Each user system has a set of defined reports. These appear on the menu. The user can select a required report by typing in the report number (or code) in the menu itself.

When a report has been selected, the following picture appears on the user terminal:

ND TPS-II OPERATORS TERMINAL ORDERING OF REPORTS		Version C. 10.17 28 april 1985	
Report name :			
Periodic?	: .	Start-date	:
Period (D,W,M)	: .	Batch no.	
Automatic/Manual?	:	Printer name	:
Ordered by	:	On terminal no.	: ...the....at. ... (date,time)
Listing-ref.	:		
----- REPORT PARAMETERS -----			
Name	Value	Name	Value
.....
.....
.....
<COMMAND>			

FIELD DESCRIPTION

FIELD NAME	DESCRIPTION
Report Name	The field is automatically filled in with the name of the chosen report. First comes the abbreviated name, followed by the report's full name.
Periodic?	The field is used to order reports for periodic running. In this case, the report system automatically creates a new order for the report after each run. The period's length is given in the adjoining field. Accepted values are: Y : Order for periodic execution. N : One-off ordering (this is default, and does not need to be entered).

----->>>>

Period (D,W,M) When the field Periodic? has been filled in as Y (Periodic), the period length for the running of the report must be given.
Legal values are:
D : Daily report (the report is run every day Monday through Friday).

W : Weekly report (the report is run weekly, on the day for which the first time point was given).

M : Monthly report (the report is run monthly on the date the first start time was given for). If the last day of the month was requested, the report will always be run on the last day of every month.

**Automatic/
Manual** Define whether the report is to be run automatically or whether it is to be started later from the operator terminal by using function 2.4 RMAN (Start manual reports). A report can be ordered for automatic start only if it has been defined for this function by function 2.7 RDEF Definition of reports.
Legal values are:
A : Automatic start up.
M : Must be started manually from the operator's terminal.

Start-Date If manual: Proposed start date in RMAN.
If automatic: Start time and date for first run.

Batch no. Indicates which batch processor no. the report is going to use. Could be overruled by RMAN if manual report.
Default: Value registered in RDEF - Define reports.

Printer-Name Give the name of the printer which will produce the listing. For reports with manual start this can be controlled by function 2.2, RPRINT.

Automatic reports come out on the registered printer automatically. If nothing is written into the field, the listing must be printed with the help of function 2.2 - RPRINT.

(These fields are filled in by the system:)

Ordered by This field is filled in by the system with the user's name, after the order has been made.

On Terminal no. These fields are filled in by the system with the date and time when the order was made.

List Reference This field is filled in by the system when the order is made, with the associated identification for the listings.

**Parameter
Name** The system displays the names of all the parameters which must be supplied when the report is ordered.

----->>>>

Value Give the parameter values the report needs to run here. The system will check that the supplied values are valid for the parameters. The parameters and validation routines are specified in RDEF. Checking is defined in function 2.7 - RDEF Definition of reports.

<COMMAND> The field where the function writes out the valid commands that the user may choose from.

Commands :

- N (New) : Registration of a new order.
- D (Display) : Look at previously registered order.
- R (Remove) : Remove a previously registered order (which is now shown in the picture).
- M (Modify) : Change fields in a previously registered order (which can now be seen in the picture).
- U (Update) : Create registered or changed order (now on the screen).
- T (Terminate) : Exit from the function.

One may go to the command field from another field in the picture by pressing the FUNC key and then the HOME (↖) key.

CHAPTER 3
COPY FUNCTIONS

.....

- COPY FUNCTIONS
- SECURITY COPYING
- BACK-COPYING
- DISK PACK CONTROL
- SECURITY COPYING: AN EXAMPLE

```
***  MAIN - MENU  ***
1. OPER  Normal Operation
2. REPO  Report System
3. COPY  Copy Functions
4. MAINT  Maintenance
5. ABNO  Error Correction
6. SPEC  Special Functions
7. ESYST Exit To Other System
```

→

```
***  COPY FUNCTIONS  ***
1. Security Copying
2. Back-Copying
3. Disk Pack Control
4. Terminate
```

3 COPY - COPY FUNCTIONS

TPS-II contains a function for copying and controlling disk packs.

Before you use these functions:

- Ask all terminal operators to log out. This can be done by first using the function STERM (Status terminals, 1←4←2←) to see if all are logged out, followed by either MTERM (1←5←2←) or MALL (1←5←3←) to send a message to the terminal(s) still in use;
- Stop the TPS-II systems.

When you select the COPY function, you will get a message to continue from the console or from the terminal defined to own the TPS-II backup system. When the copy function is active, the terminals connected to the system are not available for use.

The following menu appears:

```
*****
*   TPS-II COPY FUNCTIONS   *
*****
      March 8. 1984  16.57.43

          1. Security copying
          2. Back-copying
          3. Disk pack control
          4. Terminate

      Select function:
```

SUBMENU DESCRIPTION:

Security Copying Used to copy disk packs used in the daily operation. This is the most commonly used function.

Back-Copying Used when it is necessary to restore a copy of a pack if the original is not OK. The procedure is similar to security copying, but this function copies from a copy to the original pack. This is usually done under supervision of the system supervisor or service personnel.

Disk Pack Control Used to check whether a disk pack is physically O.K. The function is performed on an already installed pack. This means that there is no shift of the disk pack. This function is normally used by the service personnel.

In the next page we give an example of a normal "Security copying"

----->>>>

3.1 SECURITY COPYING: AN EXAMPLE

<pre> 1. Security copying ***** 1. SYSTEM PACK 2. REGISTER PACK-1 3. REGISTER PACK-2 0. RETURN Select function: <u>2</u> Start the function (Y/N)?:<u>Y</u> **CHANGE DISK PACK** Stop the disk unit : SYSTEM Remove pack! Install pack : REGISTER PACK-1 COPY Ready (Y/N):<u>Y</u> **DATE CONTROL** Date : 07.04.83 - on pack REGISTER PACK-1 ORIGINAL Date : 07.04.83 - on pack REGISTER PACK-1 COPY **Date control ok!** **COPYING** Started: 17.00.42 Finished : 17.03.25 **COPY CONTROL** Started : 17.03.26 Finished : 17.06.08 **NEW DATE ON THE PACKS** Date : 08.03.83 - on pack REGISTER PACK 1 ORIGINAL Date : 08.03.83 - on pack REGISTER PACK-1 COPY **New dates ok!** **CHANGE DISK PACK** Stop the disk unit : SYSTEM Remove pack! Install pack : SYSTEM ORIGINAL Ready (Y/N)? : <u>Y</u> **DATA BASE Routine-log initiated ok!** (After a pack is copied the copy menu is displayed again) </pre>	<p>Disk packs are given names when the system is installed</p> <p>Disk unit names are on the disk units.</p> <p>Start the disk unit & wait before answering until "READY" lamp is lit.</p> <p>The dates on the original and copy packs should be the same.</p> <p>The original and copy packs are compared. If the copy is not correct, an error message is given.</p> <p>New dates are written on the original and copy disk packs</p> <p>Copying is done. Exchange the copy and system packs.</p> <p>If the copy pack contains a database, Routine-Log is initiated automatically.</p>
---	--

*** After copying is terminated, TPS-II can be started from the operator's terminal.

—end of chapter—

CHAPTER 4
MAINTENANCE FUNCTIONS

.....

- MAINTENANCE FUNCTIONS
- TERM TERMINALS
- TUSER USERS
- FGRP FUNCTION GROUPS
- MEFU MENUS/FUNCTIONS
- SYST USER SYSTEMS
- SYDB USER DATABASES


```
***  MAIN - MENU  ***
1. OPER  Normal Operation
2. REPO  Report System
3. COPY  Copy Functions
4. MAINT  Maintenance
5. ABNO  Error Correction
6. SPEC  Special Functions
7. ESYST Exit to Other System
```

MENU NO. 4.1

```
***  MAINTENANCE  ***
1.  TERM  Terminals
2.  TUSER  Users
3.  FGRP  Function Groups
4.  MEFU  Menus/Functions
5.  SYST  User Systems
6.  SYDB  User Databases
```

The MAINTENANCE functions are for registering, changing and displaying data on the individual user systems, terminals, users, databases and menus running under TPS-II.

Interrupt all present registrations by pressing FUNC and then "CTRL" and "W" simultaneously. Prevent all further registration by pressing FUNC followed by HOME (↵).

FUNCTION:	USE:
TERM	To register terminals under TPS-II.
TUSER	To define users of individual systems under TPS-II.
FGRP	To define function groups for individual users.
MEFU	To define menus, registration functions and reports for a database system.
SYDB	To define the internal contents of data registers.

ND-30.030.02

4.1 TERM - TERMINALS

All terminals that are to be connected permanently to TPS-II, must be registered with this function. When a new terminal is registered, the system must be stopped and started to activate it.

Error messages are displayed as self-explanatory text at the bottom left corner of the screen. The cursor will always be positioned at the field which is to be filled.

The function will list the registered terminals, if necessary over several pages. The picture shown below appears:

ND TPS-II OPERATORS TERMINAL MAINTENANCE TERMINALS			Version B. 08.59 19. aug. 1984	
Terminal Number	Terminal Type	Terminal Category	Printer Number	Alt.Printer Number
...
...

New/Display/Terminate : .

FIELD NAME: DESCRIPTION:

Page	Shows which page you are currently working on.
Terminal Number	SINTRAN III device number for the terminal to be registered. Each terminal is given a unique number.
Terminal Type	Terminal type, given by the system supervisor to the individual terminal (usually 53).
Terminal Category	N : if the terminal is to be controlled by TPS-II. S : if the terminal is controlled by SINTRAN III.
Printer Number	The use of this field is installation dependent. This field may be used to "connect" terminals to a printer.
Alternative Printer Number	The use of this field is installation dependent. This field may be used to "connect" terminals to a printer.
New/Display/ Terminate	N(ew): to enter new terminals. D(isplay): to list the registered terminals. T(erminate): to exit to the maintenance menu.
Error Messages	Error messages are displayed at the bottom left corner of the screen and are self-explanatory.

----->>>>>

4.2 TUSER - USERS

The TUSER function is used to register terminal user-names and passwords and to specify the kind of access the individual users will have to the various systems running under TPS-II.

With the command TUSER, the following screen picture is displayed:

ND TPS-II OPERATORS TERMINAL MAINTENANCE TERMINAL				Version B. 08.59 19. aug. 1984			
User name :				Default Usersystem: ..			
Password :				SINTRAN User area :			
				SINTRAN Password :			
System Number	System Name	System Type	System Authoriz. Level	Enter Type	Enter Menu/Func	Function group Number Authoriz.	
..	
..	
..	
User-def. :			

New/Display/Terminate : .

FIELD NAME:	DESCRIPTION:
UserName	The terminal user's signature.
Password	The terminal user's password.
Default User System	The TPS-II user system number. Used only if the terminal user has a default user system.
SINTRAN User Area	The terminal users SINTRAN III user-area (if any).
SINTRAN Password	The SINTRAN-III user-area password (if any).
System Number	A TPS-II user system number is displayed.
System Name	A TPS-II user system name is displayed.
System Type	The TPS-II user system type.
Authorization Level	0=no access, 9 is highest access. Enter the terminal users general authorization level for this user system.
----->>>>>	

Enter Type Used to indicate in what way the terminal user should enter this TPS-II system.
 (M : through a menu, F : through a function).

Enter Menu/Func. If the user should enter this TPS-II user system through a submenu or a specific function enter the submenu or function number here.

Function Group Used if the terminal user is to be a member of a function group (function 4.3).
 - **Number** Enter function group number and the terminal users
 - **Authorization** authorization level inside this group.

The above lines are repeated for each defined user system.

User-Default The use of these fields is installation dependent. The values entered will be available for user application programs at runtime.

**New/Display/
Terminate** New: enter data for a new terminal user.
 Display: display data for an existing terminal user.
 Terminate: exit to the maintenance menu.

Access control in TPS-II is defined in the following way:

Each user is recorded in the control system database with a name, and a password, if desired.

The user is given different authorization levels for each user system in TPS-II. Here 0= no access, and 9= highest access.

In each user system, the user can access menus and functions which are on the same or lower level of authorization than the his or her own general authorization level.

Each user may have a special authorization level for one specific group of functions ("Function Group" - 4.3) in each user system. The user's authorization level inside a function group may be higher than the users general authorization level.

4.3 FGRP - FUNCTION GROUPS

This function is used to define groups of functions for which the user may be given special access to.

- Each user can only belong to one group in each user system.
- Function groups are used to give a terminal user special authorization for a defined group of user-system functions (application programs). Function groups may be used to overrule the users general authorization level.
- A number of function groups may be defined for each user system.

The example below shows what appears on the screen:

ND TPS-II OPERATORS TERMINAL MAINTENANCE FUNCTION GROUPS	Version B.																														
<p>Function group number : ...</p> <p>Applications in this group :</p> <table style="margin: auto; border: none;"> <tr><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td></tr> <tr><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td></tr> <tr><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td></tr> </table>	
...																						
...																						
...																						

New/Display/Terminate : .

FIELD NAME:	DESCRIPTIONS:
<hr style="border-top: 1px dashed black;"/>	
Function Group Number	Enter here a unique number for this function group.
Application in This Group	Enter the TPS-II application program numbers which the group consists of.
	<p><u>N</u>ew: to register a new function group.</p> <p><u>D</u>isplay: to display an existing function group.</p> <p><u>T</u>erminate: exit from the function.</p>

4.4 MEFU - DEFINITION OF MENUS AND FUNCTIONS

The function MEFU is used to define all menus, functions and reports in an individual TPS-II user system.

This function is normally used only by the system supervisor. The operator can, however, use the function to modify the authorization code for a menu or a function.

There are two kinds of screen pictures associated with this function, depending on whether you are defining a Function or a Menu.

An example of a picture which appear on the screen:

Screen picture for defining Menus:

ND TPS-II OPERATORS TERMINAL MAINTENANCE MENUS/FUNCTIONS	Version B. 08.59 19. aug. 1984
Menu No.: ... Menu text :	Page: .
Entry No.: ... Entry text :	Type: .
...	.
...	.
...	.
...	.
Menu number : ... Menu name :	Authorization level : .

Screen picture for defining Functions:

ND TPS-II OPERATORS TERMINAL MAINTENANCE MENUS/FUNCTIONS	Version B. 08.59 19. aug. 1984
Menu No.: ... Menu text :	Page: .
Entry No.: ... Entry text :	Type: .
...	.
...	.
...	.
...	.
Function no. : ... Function name:	Authorization level : .
No. of appl. : . Appl. numbers:	

Note that only the lower part of the screen differs in the two forms.

----->>>>>

FIELD NAME: DESCRIPTIONS:

Menu Number: Menu number, between 1 and 999.

Menu Text: Menu text, descriptive name of the menu.
 Is automatically filled out.

Entry Number: In a menu, the entries should be given
 consecutive numbers from 1 and upwards.

Entry Text: A descriptive name of the menu-entry.

 Type: One character. The legal values are:
 M (for Menu) : the entry is a submenu.
 F (for Function) : the entry is a function.
 R (for Report) : the entry is a report.
 All other characters are illegal.

Entry Number, Entry Text and Type are repeated 10 times in each form. Up to 20 entries may be defined for a menu, the rest on page 2.

Remember: a good menu does not have more than 9 entries!

Lower window when the entry type is a submenu (M):

Menu number: Submenu number.

Menu name: Menu name (maximum 8 characters) that may be used to
 select this submenu.

Authorization Terminal users authorization level for using this submenu.
Level

Lower window when entry type is function (F) or report (R):

Function no.: The number of main function (application) for the entries.

Function Name: The function name, maximum 8 characters.

Authorization The terminal user's authorization level
Level: to use this submenu.

No. of Appl.: The number of applications in the function (max 6).

Appl. Numbers: Sequence of applications constituting the function, one
 entry for the number of applications given above.

NOTE: When the entry type is report (R), the lower window is automatically filled out by the system with the exception of the function name and the auth. level.

NOTE: When you use the function MEFU for the first time for a user system, start with displaying menu number 10 (the system defined top level). The menu defined as "main-menu" for the user system will automatically be stored in the menu no.10. You can now continue filling entries in the defined "main-menu".

4.5 SYST - USER SYSTEMS

This function should be used only by system supervisors. It is used for providing information on the systems which are controlled (or may be accessed) by TPS-II.

ND TPS-II OPERATORS TERMINAL MAINTENANCE USER-SYSTEM INFORMATION		Version B. 08.59 19. aug. 1984
System name	:
SINON menu text	:
System type	:	..
System number	:	..
Database name	:
Database owner	:
SIBAS system number:		...
SIBAS runflag(oct.):	
Main-menu number	:	...
Standard log-in application	:	...

New/Display/Terminate : .

FIELD NAME:	DESCRIPTIONS:
-------------	---------------

- | | |
|---------------------------------|---|
| 1. System Name | The name used in TPS-II. |
| 2. SINON Menu Text | The name used when selected from user terminals. |
| 3. System Type | DB : if the system is a database system under TPS-II.
' ' : if the system is of background type, e.g., NOTIS. |
| 4. System Number | > 0 : database system.
< 0 : SINTRAN III subsystem to be accessed from user terminals. |
| 5. Database Name | Name of the database. |
| 6. Database Owner | Name of the SINTRAN user owning the database. |
| 7. SIBAS System No. | Number of the SIBAS process which controls the database. |
| 8. SIBAS Runflag | The SIBAS runflag for the database. |
| 9. Main Menu Number | Main-menu number in the user system. |
| 10. Standard Log-in Application | Enter an application number in the user system, if you want all users to enter the user system through a specific function. |

NOTE:

Fields 5 to 10 are only used for database systems which are controlled by TPS-II.
The system name SINTRAN should be registered if terminal users are to have access to the operating system SINTRAN III from their TPS-II terminals.

----->>>>

4.6 SYDB - DATABASES

This function should be used only by the system supervisor. This is where the internal structure of the data registers is defined to the TPS-II system.

ND TPS-II OPERATORS TERMINAL MAINTENANCE DATABASE DESCRIPTIONS		Version B. 08.59 19. aug. 1984
System name : System number : ... Database name : No. of realms : ... Page: .. ----- Realm names -----		

New/Display/Terminate : .

FIELD NAME: DESCRIPTIONS:

System Name

System Number

Database Name

No. of realms

Realm names

These fields are filled out automatically
by the system.

Number of realms that are to be recorded in the next
fields.

Realm names defined in the user database.

- The realm names should be repeated as many times as indicated in the no-of-realms field.
- The realms registered will be "readied" for use by the SIGNON special application.
- 63 realms may be registered on each page; additional realm names can be entered on extra pages.
- The "page number" is updated automatically.

—end of chapter—

CHAPTER 5
ERROR FUNCTIONS

.....

- **ERROR FUNCTIONS**
- **ABNO - ERROR CORRECTION**
- **RCOVR - RESTART AFTER ERROR**

```
***  MAIN - MENU  ***
1. OPER  Normal Operation
2. REPO  Report System
3. COPY  Copy Functions
4. MAINT  Maintenance
5. ABNO  Error Correction
6. SPEC  Special Functions
7. ESYST Exit To Other System
```

MENU NO. 5.1

```
*** 5.1 ERROR - CORRECTION ***
1. RCOVR Restart after Error
```

5 ABNO - ERROR CORRECTION

Where a user system under TPS-II stops on account of a critical error in a terminal user function, the user system stops automatically, and an error message appears on the operator's terminal and the user terminals.

After an error condition, the user system can be used only after the command RCOVR has been given or after TPS-II is reloaded and restarted from the beginning (see Part 1, section 1.6):

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
<p>*** 5. ERROR - CORRECTION ***</p> <p>1. RCOVR Restart After Error</p>		<p>W A R N I N G</p> <p>This function must only be used after the system has stopped because of an error</p> <p>==></p> <p>Want to continue(Y/N):.</p>	
Response :			

5.1 RCOVR - RESTART AFTER ERROR

The function RCOVR should only be used when the system stops and you get a message like:

- SYSTEM-1 - STOPPED BECAUSE OF CRITICAL ERROR.
CONTACT THE SYSTEM SUPERVISOR

When performing RCOVR, the following messages will be written on the log lines of the operator's terminal.

<time> <user-system> ROLLED BACK TO 12:15 18.08.84
<time> <user-system> REPROCESSING OF R-LOG FINISHED
<time> <user-system> RESTART AFTER ERROR FINISHED : OK

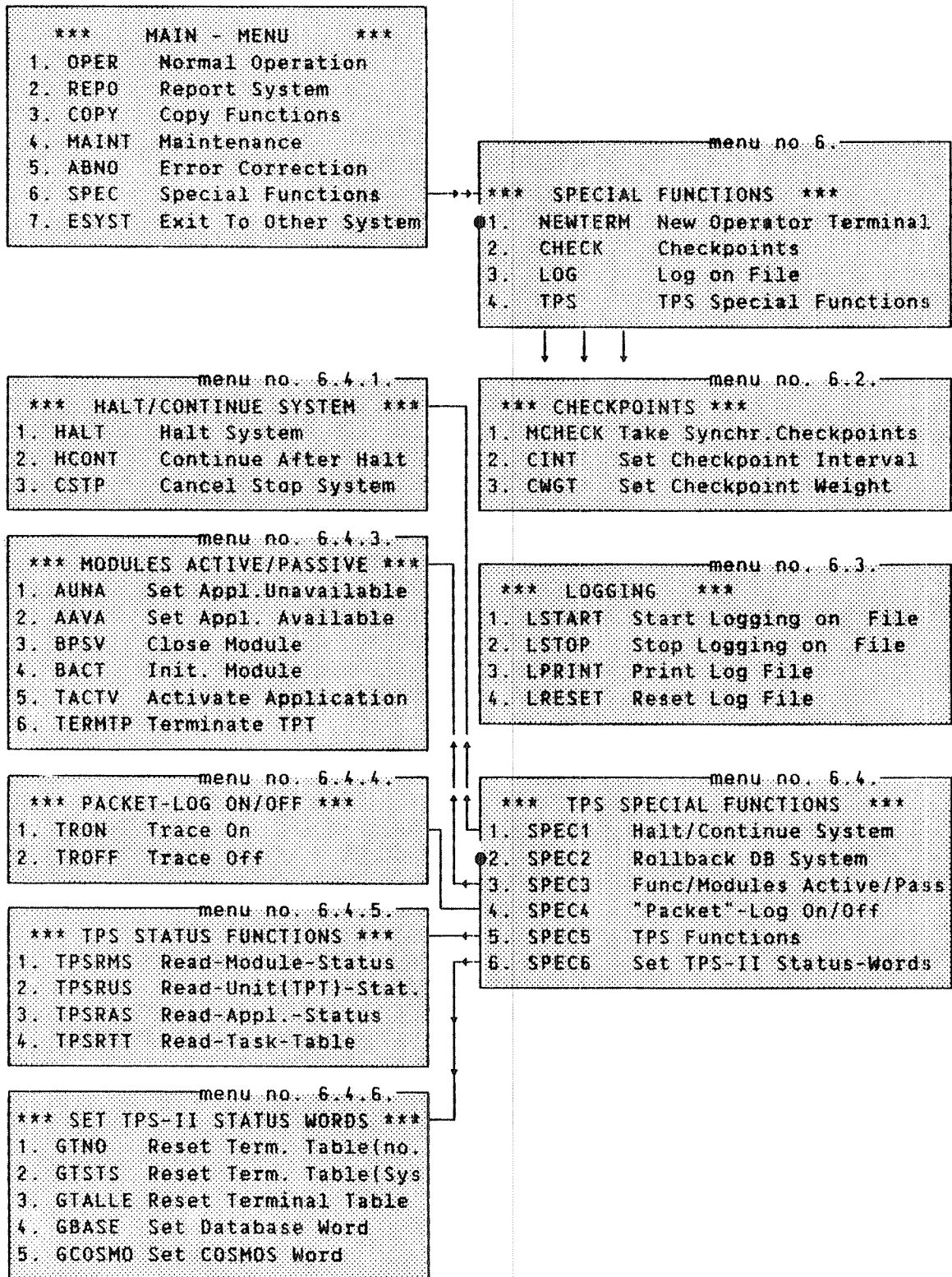
The messages mean that the system is up and running again. Terminal users should, however, check to see if their last updates are available. If not, they must be registered once again.

If the message: <time> <user-system> RESTART AFTER ERROR FINISHED : OK does not appear on the operator's terminal, the system has not recovered from the last error. In this case, the system supervisor should be contacted.

CHAPTER 6
SPECIAL FUNCTIONS

.....

● SPECIAL FUNCTIONS
● NEWTRM NEW OPERATOR TERMINAL
● CHECK CHECKPOINTS
● LOG LOGGING
● TPS SPECIAL TPS FUNCTIONS
● MCHECK TAKE SYNCHRONIZED CHECKPOINT
● CINT SET CHECKPOINT INTERVAL
● CWGT SET CHECKPOINT WEIGHT
● LSTART START LOGGING ON FILE
● LSTOP STOP LOGGING ON FILE
● LPRINT PRINT LOG FILE
● LRESET RESET LOG FILE
● SPEC1 HALT/CONTINUE SYSTEM
● SPEC2 ROLL BACK DB-SYSTEM
● SPEC3 FUNC/MODULES ACTIVE/PASSIVE
● SPEC4 TPS-PACKET-LOG ON/OFF
● SPEC5 TPS-STATUS FUNCTIONS
● SPEC6 SET TPS-II STATUS-WORDS
● HALT HALT SYSTEM
● HCONT CONTINUE AFTER HALT
● CSTOP CANCEL STOP SYSTEM
● AUNA SET APPL. UNAVAILABLE
● AAVA SET APPL. AVAILABLE
● BPSV CLOSE MODULE
● BACT INIT MODULE
● TACTV ACTIVATE APPLICATION
● TERMTP TERMINATE TPT
● TRON TRACE ON
● TROFF TRACE OFF
● TPSRMS READ-MODULE-STATUS
● TPSRUS READ-UNIT(TPT)-STATUS
● TPSRAS READ-APPLICATION STATUS
● TPSRTT READ-TASK-TABLE
● GTNO RESET TERMINAL TABLE (NO.)
● GTSYS RESET TERMINAL TABLE (SYSTEM)
● GTALLE RESET TERMINAL TABLE
● GBASE SET DATABASE WORD
● GCOSMO SET "COSMOS" WORD



● These functions do not lead to submenus.

6 SPEC - SPECIAL FUNCTIONS

This menu contains functions which are seldom used. The most common special function is probably NEWTRM for changing the operator's terminal.

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 6. SPECIAL - FUNCTIONS ***			
1. NEWTRM	New Operator Terminal		
2. CHECK	Checkpoints		
3. LOG	Log on File	==>	
4. TPS	TPS Functions		
Select : Response :			
Log-lines:			

6.1 NEWTRM - NEW OPERATOR TERMINAL

The command NEWTRM is used to make any terminal, which is connected to TPS-II, the operator's terminal.

The new operator terminal number is entered in the right window of the screen picture.

When you have used this command, you will be prompted to enter the user's name and password at the new operator terminal.

6.2 CHECK - CHECKPOINTS

This function contains the commands for controlling the use of checkpoints for database registers in TPS-II.

A checkpoint is an instance in time at which TPS-II saves data, and information about the current activities. Checkpoints are used by TPS-II in error situations so that the database and the systems are returned to an earlier, error-free state. Checkpoints are usually taken automatically by the system. In special situations, the operator may take a checkpoint manually.

With the command CHECK the following menu appears on the screen:

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 6.2 CHECKPOINTS ***			
1.	MCHECK	Take Synchronized Checkpoint	Checkpoint interval should have a value between 5 & 99 min. Recommended : 30 min. Interval :
2.	CINT	Set Checkpoint Interval	
3.	CWGT	Set Checkpoint Weight	
			=>
Select : 2	Response :		
Log :			

6.2.1 MCHECK - TAKE SYNCHRONIZED CHECKPOINT

The command is used to take a checkpoint in the chosen system. The system number is entered in the corresponding prompt in the right-hand "window".

6.2.2 CINT - SET CHECKPOINT INTERVAL

TPS-II automatically takes checkpoints for each user system.

This command determines how often checkpoints are taken. The checkpoint interval is given in number of minutes. If you enter a 0 as the interval, a checkpoint will be taken only at start or stop, or at a manual command.

----->>>>>

6.2.3 CMGT - SET CHECKPOINT WEIGHT

Automatic checkpoints can be taken, depending upon the load on the individual user system.

When initializing a particular user system, a Checkpoint Weight is determined for each function in it. TPS-II adds up these weights as the functions are used. When the total exceeds the total-weight set in this command, TPS-II automatically takes a checkpoint for the user system (and starts counting again from 0).

6.3 LOG - LOG ON FILE

The menu contains functions for defining the log-device and for logging of the internal activity in TPS-II. The data logged is: all commands and the responses, error messages, and information which normally appears on the terminal. Normally, messages describing the activities in the TPS-II system are routed to the computer error device. The messages may, however, be routed to a disk file. The default operational mode is set by the installation program OPCOM-INIT.

ND TPS-II OPERATORS TERMINAL		Version B.
	08.59	19. aug. 1984
<p>*** 6.3 LOG ON FILE ***</p> <p>1. LSTART Start Logging on File</p> <p>2. LSTOP Stop Logging on File</p> <p>3. LPRINT Print Log File</p> <p>4. LRESET Reset Log File</p> <p>==></p>		
Select :	Response :	
Log :		

6.3.1 LSTART - START LOGGING ON FILE

This command changes the log-device from the computer error device to a disk file.

6.3.2 LSTOP - STOP LOGGING ON FILE

This command changes the log-device from the TPS-II disk file to the computer error device.

6.3.3 LPRINT - PRINT LOG FILE

This command prints out the contents of the TPS-II log file on a printer. You will be prompted to enter the printer name. If you change your mind, and if you do not want a printout, enter \leftarrow only.

----->>>>

6.3.4 LRESET - RESET LOG FILE

The log file is set to empty. We advise you to use this after you have printed a log-file.

6.4 TPS - TPS FUNCTIONS

With the command TPS, the following picture appears on the screen:

ND TPS-II OPERATORS TERMINAL	Version B. 08.59 19. aug. 1984
<p>*** 6.4 TPS FUNCTIONS ***</p> <p>1. SPEC1 Halt/Continue System</p> <p>2. SPEC2 Rollback DB-System</p> <p>3. SPEC3 Func./Modules Active/Passive</p> <p>4. SPEC4 TPS Packet-Log On/Off</p> <p>5. SPEC5 TPS Functions</p> <p>6. SPEC6 Set TPS-II Status-Words</p> <p>==></p>	
Select : Log-lines:	Response :

The functions in this menu are described in the following pages.

6.4.1 SPEC1 - HALT/CONTINUE SYSTEM

With the command SPEC1, the following menu appears on the screen:

ND TPS-II OPERATORS TERMINAL		08.59	Version B. 19. aug. 1984
*** 6.4.1 HALT/CONTINUE ***		.	S Y S T E M S
1.	HALT Halt System	.	0 CONTROL SYSTEM
2.	HCONT Continue After Halt	.	1 ACCOUNTING
3.	CSTP Cancel Stop System	.	2 PERSONAL
		==>	Select system :
Select :	Response :		
Log-lines:			

6.4.1.1 HALT - HALT SYSTEM

All user terminals connected to selected user systems are suspended until the command HCONT - "Continue after halt" or RCOVR - "Restart after error" is given.

The command is used to freeze the state of the user system. Data will not be lost for this function. You can later continue from where you left off when the command was activated.

6.4.1.2 HCONT - CONTINUE AFTER HALT

HCONT allows user terminals to continue the current activity. The function should be used after the function HALT has been used.

6.4.1.3 CSTP - CANCEL STOP

The command is used to cancel the execution of the command 1.2 - STOP - "Stop system" before the message "<hour> <system -> -is stopped" appears.

6.4.2 SPEC2 - ROLLBACK DB-SYSTEM

This command is used to rollback the system to a previous checkpoint. After this command is performed, all updates of the database done after the synchronized checkpoint are lost. This command should, therefore, be used with great care. When the command is executed, the following message appears:

```
:<time> <user-system> ROLLED BACK TO 15.31 21.08 1984
```

6.4.3 SPEC3 - FUNCTIONS/MODULES ACTIVE/PASSIVE

With the command SPEC3, the following picture appears on the screen:

ND TPS-II OPERATORS TERMINAL		Version 8. 08.59 19. aug. 1984	
*** 6.4.3 ACTIVE/PASSIVE ***			
1.	AUNA	Set Appl. Unavailable	:
2.	AAVA	Set Appl. Available	:
3.	BPSV	Close Module	:
4.	BACT	Init Module	:
5.	TACTV	Activate Application	:
6.	TERMTP	Terminate TPT	:
		==>	:
Select :		Response :	
Log-lines:			

6.4.3.1 AUNA - SET APPL. UNAVAILABLE

This command makes an application unavailable for use under TPS-II.

You will be prompted to enter the following parameters:

- TPS module number (the module no. of a TCM),
- the application number.

After giving this command, reload the application or perform the next command to make the application available again.

6.4.3.2 AAVA - SET APPLICATION AVAILABLE

An application which has been set unavailable by the AUNA is made available for use again.

You will be prompted to enter the following parameters:

- TPS module number (the module no. of a TCM),
- the application number.

----->>>>

6.4.3.3 BPSV - CLOSE MODULE

This command is used to stop a TPS-II internal module (TCM or IOM). It is usually used for the system containing a I/O-module (3270-CU, X25-IOM, 3270-HOST). You will be prompted to enter the module number.

6.4.3.4 BACT - INIT MODULE

This command is used to start an internal TPS-II module. You will be prompted to enter the TPS-II module number.

6.4.3.5 TACTV - ACTIVATE APPLICATION

This command is used to activate an application in the TPS-II system for a specific Transaction Processing Task (TPT).

The following parameters must be supplied:

1. TPS-II system number.
 2. Application number.
 3. Parameter - 1 (user defined)(usually terminal no.)
- Parameter 3 is transferred to the application in the first word of the ITERM-area.

Examples:

TPS-II with
1 application
system

Activate SINON on terminal 52 to connect a new terminal to the TPS-II system.

1 : 1
2 : -2
3 : 52

Activate TPS-II ND-500 monitor program TPMON on terminal 53 to debug user applications.

1 : 1
2 : -3
3 : 53

Examples:

TPS-II with more
than 1 user
application
system

Activate SINON on terminal 52 to connect a new terminal to the TPS-II system.

Parameters:
1 : 0
2 : -2
3 : 52

Activate TPS-II ND-500 monitor program TPMON on terminal 53 to debug a user application in user system SYSTEM-2.

Parameters.
1 : 2
2 : -3
3 : 53

Note the difference in the TPS-II module numbers.!!!

----->>>>>

6.4.3.6 TERMTP - TERMINATES TPT

The command terminates a Transaction Processing Task.
The following parameters must be supplied:

1. TPS-II system number.
2. TPT number.

Example:

Terminate TP104 (i.e. TPT number 4 in system no. 1).

Parameters:

1 : 1

2 : 4

6.4.4 SPEC4 - TPS PACKET-LOG ON/OFF

These functions are used to turn on/off logging of all internal activity "packets" in TPS-II. (For further information, see the TPS-II System Programmer Guide, ND-60.212.01.)

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 6.4.4. TPS PACKET-LOG ***		T P S T R A C E	
1. TRON	Trace On	:	Give the CPU for which trace is to be turned on/off, for example, CPU-0
2. TROFF	Trace Off	:	
		:	
		:	
		==>	CPU no.:
Select :	Response :		
Log-lines:			

6.4.4.1 TRON - TRACE ON

This command is used for debugging purposes. Use it to log all internal messages ("packets") in the TPS-II system.

The following parameter must be supplied:
CPU-0.

6.4.4.2 TROFF - TRACE OFF

This command is used to turn the internal packet-log off.

The following parameter must be supplied:
CPU-0.

6.4.5 SPEC5 - TPS STATUS FUNCTIONS

The function contains commands for inspection of various internal status variables in TPS-II. (See also the TPS-II System Programmer Guide.)

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 6.4.5 TPS STATUS FUNCTIONS ***			
1.	TPSRMS	Read-Module-Status	:
2.	TPSRUS	Read-Unit(TPT)-Status	:
3.	TPSRAS	Read-Application Status	:
4.	TPSRTT	Read-Task-Table	:
		=>	:
Select :		Response :	
Log-lines:			

6.4.5.1 TPSRMS - READ-MODULE-STATUS

This command is used for debugging purposes. Use it to display internal variables in the TPS-II modules. The TPS-II module number must be specified. The output is routed to the TPS-II log device.

6.4.5.2 TPSRUS - READ-UNIT-STATUS

This command is used for debugging purposes. Use it to display internal variables of TPTs. The TPS-II system number and TPT number must be specified. The output is routed to the TPS-II log device.

6.4.5.3 TPSRAS - READ-APPLICATION-STATUS

This command is used to check the current status of an application in TPS-II. The TPS-II module number and application number must be specified.

6.4.5.4 TPSRTT - READ-TASK-TABLE

This command is used to display the current activities of all active TPTs connected to a TPT-II module.

Parameter: TPS-II module number.

Output: Active TPT numbers with currently active application numbers.

6.4.6 SPEC6 - SET TPS-II STATUS WORDS

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 6.4.6 SET TPS-II STATUS WORDS ***			
1.	GTNO	Reset Terminal Table (No.)	.
2.	GTSYS	Reset Terminal Table (System)	.
3.	GTALLE	Reset Terminal Table (All)	.
4.	GBASE	Set Database Status Word	.
5.	GCOSMO	Set "COSMOS" Word	.
		=>	.
Select :	Response :		
Log-lines:			

6.4.6.1 GTNO - RESET TERMINAL TABLE (NO.)

This command is used to erase the current internal TPS-II status information for a given terminal.
Parameter: terminal number.

6.4.6.2 GTSYS - RESET TERMINAL TABLE (SYSTEM)

This command is used to erase the current internal TPS-II status information for all terminals active in a TPS-II system.
Parameter: TPS-II system number.

6.4.6.3 GTALLE - RESET TERMINAL TABLE (ALL)

This command is used to erase the whole internal TPS-II status table for all connected terminals.

----->>>>

6.4.6.4 GBASE - SET DATABASE STATUS WORD

The TPS-II special application updates a status word in RTCOMMON for each connected database system. (0=closed, 1=opened, <0=in error). The status word is checked in connection with commands like START, STOP, and so on. This command is used to alter the status word.

Parameters:

1. TPS-II system number.
2. New status word value.

6.4.6.5 GCOSMO - SET "COSMOS" WORD

In TPS-II version B, it is possible to connect the system and run the applications from a remote terminal (connected through COSMOS).

This feature is turned OFF by default.

With this command, it is possible to change the default value.

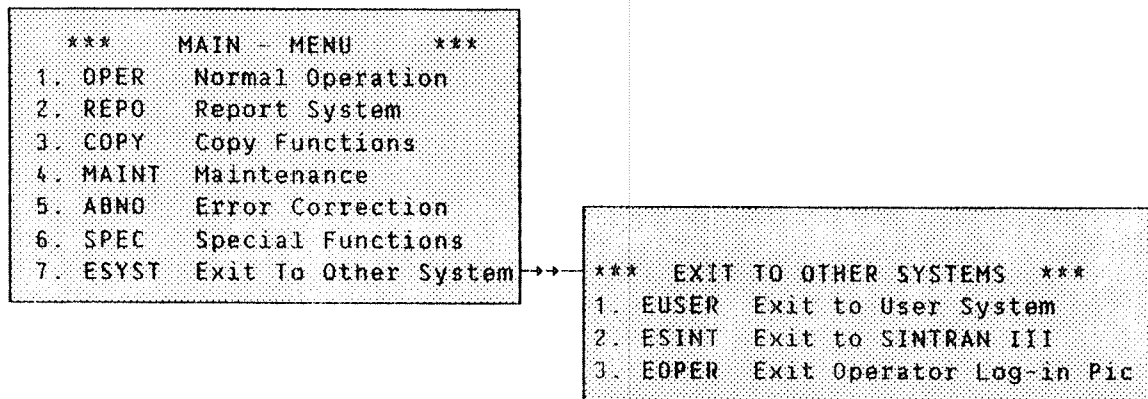
Parameters: 0 : Turn OFF
 1 : Turn ON.

—end of chapter—

CHAPTER 7
EXIT TO OTHER SYSTEMS

.....

- EXIT TO OTHER SYSTEMS
- EUSER EXIT TO USER SYSTEM
- ESINT EXIT TO SINTRAN III
- EOPER EXIT TO OPERATOR LOG-IN PICTURE



7 ESYST - EXIT TO OTHER SYSTEMS

With the command EXIT, the following menu appears:

ND TPS-II OPERATORS TERMINAL		Version B. 08.59 19. aug. 1984	
*** 7. EXIT TO OTHER SYSTEMS ***			
1.	EUSER	Exit to User System	
2.	ESINT	Exit to SINTRAN III	
3.	EOPER	Exit to Operator Log-in Pic. ==>	
Select :		Response :	
Log-lines:			

7.1 EUSER - EXIT TO USER SYSTEM

This command is used when the operator's terminal is to be returned to normal user functions.

After selecting this command, the picture for entering the terminal user-name and password is displayed.

The individual user system can now be used from the operator's terminal.

7.2 ESINT - EXIT TO SINTRAN III

With this command you can log in under the SINTRAN OPERATING SYSTEM from the operator's terminal. You will be prompted to enter SINTRAN III user-name and password.

----->>>>

7.3 EOPER - EXIT TO OPERATOR LOG-IN PICTURE

The picture for entering name and password for operators on the TPS-II operator's terminal is displayed. This is the same picture as that which appears when the terminal is first switched on.

end of chapter

APPENDIX A
ERRORS AND ERROR MESSAGES

.....

- CRITICAL AND NON-CRITICAL ERRORS
- ERROR MESSAGES AND DIAGNOSTICS

CRITICAL AND NON-CRITICAL ERRORS

When you operate the TPS-II system, warnings and error messages from the activities in the system are routed to the operator's terminal. One or two message lines may appear in the "log-lines" fields, and more descriptive error messages are sent to the computer's error device (or the TPS-II log-file).

Most warnings and error messages originate from the user system's application programs.

Critical Errors The TPS-II checks whether an error situation is critical or not. If the error situation is critical, TPS-II will stop the system immediately. The following message will be displayed on the operator terminal.

Log-lines: ABEND : APPL. ERROR IN <function-name>-/ TERMINAL ..
 -<system name> - STOPPED BECAUSE OF SYSTEM ERROR
 CONTACT SYSTEM-SUPERVISOR

Non-Critical Errors In a non-critical error situation, usually only one message line as shown below will appear:

Log-lines: ABEND : APPL. ERROR IN <function-name>-/ TERMINAL ..

In this case, the TPS-II system will continue as usual, but the error should be reported to the system supervisor.

Detailed descriptions of the critical and non-critical errors will be found on the error device of the computer.

ERROR MESSAGES AND DIAGNOSTICS IN TPS-II

Error messages are in
the alphabetical order.

List of most error messages, when and why they occur and what to do.

=====

MESSAGE : ABEND: APPL. ERROR IN -..... - / TERMINAL...

WHEN : Abnormal termination of an application
program.

REASON : Error in the executing program.

ACTION : The runtime error message which appears on
the error device should be sent to the
system supervisor. If the error is not
"critical", ie., causing the system to stop,
no further action is necessary. The system
supervisor should decide if the function is
to be taken out of use until the error is
corrected.

MESSAGE : ABEND: APPL. ERROR IN PROG. AP.. AT TERMINAL..

WHEN : See MESSAGE 10

REASON : See MESSAGE 10

ACTION : See MESSAGE 10

MESSAGE : ABEND: OPERATOR TIMEOUT IN AP... / TERMINAL...

WHEN :

REASON : A user's terminal is abandoned inside a
function for normally more than 25 minutes
without the function having been used.

ACTION : Normally nothing.
On the user's terminal the picture for
logging in (if necessary, choice of system)
will reappear.

MESSAGE : ABNORMAL TERMINATION OF - ABEND - (...)

WHEN :

REASON : TPS-II special application ABEND terminated
abnormally.

ACTION : Contact system supervisor.

----->>>>

MESSAGE : APPLICATION - SLECT- IS NOT AVAILABLE

WHEN : After selection of functions on a user's terminal.
REASON : The essential system programs are not accessible for TPS-II and must be reloaded.
ACTION : Contact system supervisor.

MESSAGE : CHECK: ERROR...WHEN CONTROLLING R-LOG (SISTA)

WHEN : When TPS-II takes a checkpoint of the databases.
REASON : SIBAS call to check use of R-log could not be performed correctly.
ACTION : Contact system supervisor.

MESSAGE : ERROR IN USER SYSTEMS LOG IN APPLICATION !

WHEN : Connected with logging in at a user's terminal.
REASON : Error in a user system's log in program. (Installation dependent).
ACTION : Contact system supervisor.

MESSAGE : LACKING DATA ON TERMINALS

WHEN : After the command "START SYSTEM".
REASON : Information is missing about terminals connected to TPS-II.
ACTION : Register necessary information via the function "TERM - TERMINALS" (4.1).

MESSAGE : LACKING DATA ON TERMINAL USERS

WHEN : After the command "START SYSTEM".
REASON : Information is missing about the users who are to use the system.
ACTION : Register necessary information via the function "TUSER - USERS" (4.2).

----->>>>

MESSAGE : LACKING DATA ON USER SYSTEMS

WHEN : After the command "START SYSTEM".
REASON : Data not registered for the user system in question.
ACTION : Contact system supervisor, or use functions "SYST - USER-SYSTEMS" (4.5), to register the necessary information.

MESSAGE : LACKING INFORMATION ON USER SYSTEM REALMS

WHEN :
REASON : Information is not available for the user database's internal structure.
ACTION : Contact system supervisor, or use the function "SYDB - User Databases" (4.6) to register the necessary information.

MESSAGE : MENU/FUNCTION IS NOT REGISTERED

WHEN : After selecting a menu in a user system.
REASON : The necessary data on menu/functions has not been registered.
ACTION : Contact system supervisor, or use function "MEFU - MENU/FUNCTIONS" (4.4) to enter the necessary information.

MESSAGE : NO ENTRIES DEFINED IN MENU NO.: ...

WHEN : When selecting a menu in a user system.
REASON : The necessary data on menu/functions has not been registered.
ACTION : Contact system supervisor, or use function "MEFU - MENU/FUNCTIONS" (4.4) to enter the necessary information.

MESSAGE : OPERATOR TERMINAL-NO NOT AVAILABLE

WHEN : After command "START SYSTEM".
REASON : Operator terminal number not known to TPS-II.
ACTION : Use function "TERM -TERMINALS" (4.1) to enter the operator terminal.

----->>>>

MESSAGE : SIGNON: ERROR FROM TSOPN. STATUS = ..

WHEN :
REASON : Internal error in TPS-II.
ACTION : Contact system supervisor if any terminals
 "fall out". (Status indicates error type,
 see TPS manual.)

MESSAGE : SIGNON: ERROR WHEN OPENING THE DATABASE-

WHEN : When logging in on a user's terminal.
REASON : The database could not be opened correctly.
ACTION : Contact system supervisor.

MESSAGE : SINON : TERMINAL TABLE FILLED

WHEN : A new terminal tried to enter TPS-II from
 SINTRAN III.
REASON : No free space in the TPS-II terminal tables.
ACTION : Contact system supervisor.

MESSAGE : SINON: ERROR RETURN FROM MENU/FUNCTION.../...

WHEN : TPS-II detected an error return from an
 application program.
REASON :
ACTION : Contact system supervisor if any terminal
 "falls out".

MESSAGE : - <SYS.NAME> - ERROR NO. ..FROM SINON CALL

WHEN : After the command "RCOVR - RESTART AFTER
 ERROR".
REASON : Error related to execution of rollback/
 recovery.
ACTION : Contact system supervisor.

MESSAGE : - <SYS.NAME> - ERROR NO. .. WHEN REPROCESSING

WHEN : After the command "RCOVR - RESTART AFTER
 ERROR".
REASON : Error when reprocessing calls to a database.
ACTION : Contact system supervisor.

----->>>>

MESSAGE : - <SYS.NAME> - ERROR NO. .. AT START OF SIBAS

WHEN : After the command "RCOVR - RESTART AFTER
ERROR".
REASON : TPS-II unable to start the database again.
ACTION : Contact system supervisor.

MESSAGE : -<SYS.NAME>- STOPPED BECAUSE OF SYSTEM ERROR
C O N T A C T S Y S T E M S U P E R V I S O R

WHEN : Usually in connection with message 10/11.
REASON : The error which has occurred is "critical",
ie., the system in which the error
originated must be stopped by TPS for
further use.
ACTION : The system supervisor must be contacted. The
system which has been stopped can usually be
started again with the command "RCOVR -
RESTART AFTER ERROR" (5.1).

The function which resulted in an error
should not be reused until the program
has been corrected.

MESSAGE : - <SYS.NAME> - ERROR NO. ... DURING STOP

WHEN : After the command "STOP SYSTEM"
REASON : The systems database was not closed
correctly.
ACTION : Contact system supervisor.

MESSAGE : - <SYS.NAME> - ERROR NO. AT CHECKPOINT

WHEN : In connection with taking a checkpoint of
the control system's or user system's
database.
REASON : Checkpoint not carried out normally.
ACTION : Contact system supervisor.

MESSAGE : - <SYS.NAME> - ERROR NO. .. AT ROLL-BACK

WHEN : After the command "RCOVR - RESTART AFTER
ERROR" or the command
"SPEC2- ROLL-BACK DB-SYSTEM".
REASON : Error when performing rollback of the
database.
ACTION : Contact system supervisor.

----->>>>

MESSAGE : -- <SYSTEM NAME> - ERROR NO. ...AT INITIATION

WHEN : After the command "START SYSTEM".
REASON : The system's database could not be opened correctly.
ACTION : Contact system supervisor.

MESSAGE : TOO MANY ATTEMPTS TO ENTER ON TERMINAL:...

WHEN : A terminal user has failed to enter the correct user name and password.
REASON :
ACTION : As the terminal in question is disconnected, it must be restarted either by performing a STOP and START of TPS-II, or by using the command TACTV (Activate Application).
(Parameters:
System with one user database system:
parameter 1: 1
parameter 2:-2
parameter 3: terminal number

System with >1 user database system:
parameter 1: 0
parameter 2:-2
parameter 3: terminal number)

MESSAGE : TOO MANY TERMINALS ARE REGISTERED !!

WHEN : After the command "START SYSTEM".
REASON : Too many terminals have been registered by the function "TERM - TERMINALS" than the TPS-II system is dimensioned for.
ACTION : Some terminals should be removed by the function "TERM - TERMINALS" (4.1).

MESSAGE : TPOPN: ERROR IN SYSTEM CONFIGURATION

WHEN : After the command "START SYSTEM".
REASON : TPS-II is installed incorrectly.
ACTION : Contact system supervisor.

----->>>>

MESSAGE : TPOPN: START OF CONTROL SYSTEM FAILED ?

WHEN : After the command "START SYSTEM".
REASON : Control system failed when starting up.
ACTION : Contact system supervisor.

MESSAGE : TPCLO: ERROR ... FROM "RUN" DATA BASE

WHEN : After command "STOP SYSTEM"
or "ABEND SYSTEM".
REASON : Unable to set database in "running" mode.
ACTION : Contact system supervisor.

MESSAGE : TPCLO: ERROR ... FROM "PAUSE" DATA BASE

WHEN : After command "STOP SYSTEM"
or command "ABEND SYSTEM".
REASON : Unable to set database in DBA mode before
closing.
ACTION : Contact system supervisor.

MESSAGE : TPCLO: DATA BASE IS NOT CLOSED. E R R O R ! !

WHEN : After command "STOP SYSTEM"
or command "ABEND SYSTEM".
REASON : Database could not be closed correctly.
ACTION : Contact system supervisor.

MESSAGE : TPCLO: ABNORMAL TERMINATION ! !

WHEN : After command "STOP SYSTEM"
or command "ABEND SYSTEM".
REASON : System program for system close-down
terminated abnormally.
ACTION : Contact system supervisor.

MESSAGE : USER SYSTEMS LOG IN APPLICATION NOT AVAILABLE

WHEN : After entering a user system on a user
terminal.
REASON : The essential user application program is
not accessible for TPS-II and must be
reloaded.
ACTION : Contact system supervisor.

end of appendix

APPENDIX B
COMMANDS IN SINTRAN - REGISTRATION OF OPERATORS

.....

- ABBREVIATING SINTRAN COMMANDS
- EXIT FROM SINTRAN
- PRINTING COMMANDS
- REGISTRATION OF OPERATORS

COMMANDS IN SINTRAN - REGISTRATION OF OPERATORS

The ND computers use a common operating system called SINTRAN. One of the functions of SINTRAN is to allocate the machine's resources in the best possible way. One can, for example, issue commands which affect the usage of peripheral units like printers and disk units.

You can enter SINTRAN by using the function ESINT (8.2). When you are in SINTRAN, the commercial at sign, "@", together with the cursor is displayed on the screen. This indicates that you are in touch with SINTRAN and can give its commands. There are some commands in SINTRAN which the operator of TPS-II should know about. We will describe these commands here.

Abbreviating SINTRAN Commands

SINTRAN commands can be abbreviated, but only in such a way that they cannot be mistaken for other commands.

Exit from SINTRAN

You can exit from SINTRAN by simply entering "log". Then the TPS-II menu comes up again.

Uppercase or Lowercase

A SINTRAN command can be written in uppercase or lowercase letters; it is always terminated by carriage return (CR).

Printing Commands

The command START-PRINT activates the printing of "special forms", the result listings. The command STOP-PRINT causes the printer to stop printing any output until it is set going again.

Registering Operator and Password

To register a new operator, or to change or delete a name use the SINTRAN command @OPERATOR-PASSWORD. This will produce a screen picture as shown below:

```

** REGISTRATION OF OPERATORS **

      Name      Password
Operator 1 : .....
Operator 2 : .....
Operator 3 : .....

EDIT/UPDATE/TERMINATE:
```

Legal values:

- E : to enter a new name or to change an existing name.
- U : the data in the picture will be registered.
- T : to terminate the function.

A name is removed by blanking it out.

APPENDIX C
TPS-II COMMANDS REFERENCE LIST

.....

TPS-II FUNCTIONS LIST

MENU NUMBER:	NAME:	DESCRIPTION:
1.1.	START	- Start System
1.2.	STOP	- Stop System
1.3.	ABEND	- Abend System
1.4.	STATUS	- Status Systems
1.4.1.	SSYST	- Status of Systems
1.4.2.	STERM	- Status of Terminals
1.5.	MESS	- Send Message
1.5.1.	MSYST	- Message to User System
1.5.2.	MTERM	- Message to a Terminal
1.5.3.	MALL	- Message to all Terminals
2.	REPO	- Report System
2.1	RSTAT	- Status
2.2	RPRINT	- Hard Copy
2.3	RDELET	- Deletion
2.4	RMAN	- Start Manual Reports
2.5	RSTART	- Start Report System
2.6	RSTOP	- Stop Report System
2.7	RDEF	- Define Reports
2.8		- Ordering of Reports
3.	COPY	- Copy Functions
		- Security Copying
		- Backup Copying
		- Disk Pack Control
4.	MAINT	- Maintenance
4.1	TERM	- Terminals
4.2	TUSER	- Users
4.3	FGRP	- Function Groups
4.4	MEFU	- Menus/Functions
4.4	SYST	- User Systems
4.5	SYDB	- User Databases
5.	ABNO	- Error Correction
5.1	RCOVR	- Restart After Error

----->>>>>

MENU NUMBER:	NAME:	DESCRIPTION:
6.	SPEC	- Special Functions
6.1.	NEWTRM	- New Operator Terminal
6.2.	CHECK	- Checkpoints
6.2.1.	MCHECK	- Take Synchronized Checkpoints
6.2.2	CINT	- Set Checkpoint Interval
6.2.3	CWGT	- Set Checkpoint Weight
6.3.	LOG	- Log on File
6.3.1	LSTART	- Start Logging on File
6.3.2	LSTOP	- Stop Logging on File
6.3.3	LPRINT	- Print Log File
6.3.4	LRESET	- Reset Log File
6.4.1.	SPEC1	- Halt/Continue System
6.4.1.1	HALT	- Halt System
6.4.1.2	HCONT	- Continue After Halt
6.4.1.3	CSTP	- Cancel Stop System
6.4.2	SPEC2	- Rollback Database System
6.4.3.	SPEC3	- Functions/Modules Active/Passive
6.4.3.1	AUNA	- Set Application Unavailable
6.4.3.2	AAVA	- Set Application Available
6.4.3.3	BPSV	- Initiate Module
6.4.3.4	BACT	- Close Module
6.4.3.5	TACTV	- Activate Application
6.4.3.6	TERMTPT	- Terminate TPT
6.4.4.	SPEC4	- TPS "Packet"-Log On/Off
6.4.4.1	TRON	- Trace On
6.4.4.2	TROFF	- Trace Off
6.4.5.	SPEC5	- TPS Status Functions
6.4.5.1	TPSRMS	- Read Module Status
6.4.5.2	TPSRUS	- Read Unit Status
6.4.5.3	TPSRAS	- Read Application Status
6.4.5.4	TPSRTT	- Read Task Table
6.4.6.	SPEC6	- Set TPS-II Status Words
6.4.6.1	GTNO	- Reset Terminal Table (no.)
6.4.6.2	GTSYS	- Reset Terminal Table (sys.)
6.4.6.3	GTALLE	- Reset Terminal Table (all)
6.4.6.4	GBASE	- Set Database Status Word
6.4.6.5.	GCOSMO	- Set "COSMOS" Word
7.	ESYST	- Exit to Other Systems
7.1	EUSER	- Exit to User System
7.2	ESINT	- Exit to SINTRAN III
7.3	EOPER	- Exit to Operator Log-in Picture

 end of appendix

Index

Abend System	98.
ABNO Error Correction	65.
Activate Application	97.
Active Terminals	26.
Application Activate	97.
Automatic Reports	44.
Backup Copying	49.
Cancelling	
Command	21.
Input	18, 21.
Caring for Floppy Disks	7.
Changing Disk Pack	6.
CHECK Checkpoints	70.
CINT Set Checkpoint Interval	70.
Command	
Cancel	21.
Selection	18.
Computer	9.
Copy Functions	49.
Correcting Errors	65.
Critical Errors	91.
CWGT Set Checkpoint Weight	70.
Database	
Description	61.
Realms	61.
Defining	
Functions	58.
Menus	58.
Defining Groups of Functions	57.
Defining Log Device	72.
Disk Pack	6.
Disks Floppy	7.
Disk Pack Care	6.
Disk Pack Control	49.
EOPER Operator Log-in Picture	86.
Error	
Correction	65.
Messages	91.
ESINT Exit SINTRAN	86.
EUSER User System	86.
Exit TPS-II	86.
Exit to Operator Log-in Picture	86.
Exit to SINTRAN	86.
FGRP Function Groups	53.
Floppy Disks	7.
Function	
Definition	58.
Groups	53, 57.
Functions Status	68, 81, 108.
Groups of Functions	57.
Hard Copy	34.
Hardware in TPS-II	4.
Identification of Operator	13.

Input Cancelling	18, 21.
Keyboard	5.
Log File	72, 73, 108.
LOG Log on Files	69.
Main Menu	14.
Manual Reports	31, 44, 107.
MCHECK Take Synchronized Checkpoint	70.
MEFU Menus Functions	53.
Menu	
Definition	58.
Main	14.
Relationships	15.
Structure	16.
Menus and Functions	53.
Message Send	23.
Messages Error	91.
NEWTRM New Terminal Operator	69.
Non-Critical Errors	91.
Normal Operation Overview	18.
Operation Typical	19.
Operator	
Identification	13.
Password	13.
Periodic Reports	44.
Printer	8.
Paper	8.
RCOVR Restart after Error	65.
RDEF Define Reports	31, 41.
RDELET Deletion	31.
Realm Names in Database	61.
Register Terminals	54.
Relationship of Menus	15.
Report	
Deletion	36.
Status	32.
System	31-46, 107.
Reports Manual	107.
Reports Run Manually	44.
Reports Run Periodically	44.
Report Hard Copy	34.
Restart after Error	65.
RMAN Start Manual Reports	31.
RPRINT Hard Copy	31.
RSTART Start Report System	31.
RSTAT Status	31.
RSTOP Stop Report System	31.
Security Copying	49.
Selecting Command	18.
Selection System	22.
Send Message	23.
SPEC1 Halt-Continue System	75.
SPEC2 Rollback DB-System	76.
SPEC3 Functions Modules Active Passive	77.

SPEC4 TPS Packet-Log On Off	80.
SPEC5 TPS Status Functions	81.
SPEC6 Set TPS-II Status-Words	82.
Special Functions	69.
SSYST Systems	25.
Start System	21, 39, 93, 94, 97, 98.
Starting	
Computer	9.
TPS-II	9.
Start Manual Reports	38.
Start Report System	39.
Status	
Functions	68, 81, 108.
Report	32.
STERM Terminals	25.
Stop System	67, 68, 96, 98, 108.
Stop Report System	40.
Structure of Menus	16.
SYDB User Databases	53.
SYST User	60.
System	
Abend	98.
Report	31-46, 107.
Selection	22.
Start	22, 39, 93, 94, 97, 98.
Stop	67, 68, 96, 98, 108.
SYST User Systems	53.
TERM Terminals	53, 54.
Terminal	5.
Registration	54.
Screen	5.
Terminals Active	26.
Terminals Linked to TPS	27.
Terminal User Access	55.
Terminate TPT	68.
TPS Functions	74.
TPS-II	
Hardware	4.
Initialization	9.
Personnel	3.
Service	3.
TPS Functions	69.
TPT Terminate	68.
TUSER Terminal Users	55.
Typical Operation	19.
User	
Databases	53.
Systems	53, 60, 86.

SEND US YOUR COMMENTS!!!

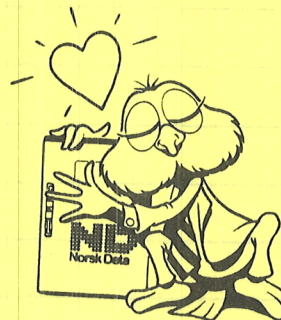


Are you frustrated because of unclear information in this manual? Do you have trouble finding things? Why don't you join the Reader's Club and send us a note? You will receive a membership card — and an answer to your comments.

Please let us know if you

- * find errors
- * cannot understand information
- * cannot find information
- * find needless information

Do you think we could improve the manual by rearranging the contents? You could also tell us if you like the manual!



HELP YOURSELF BY HELPING US!!

Manual name: ND TPS—II Operator Guide

Manual number: ND-30.030.2A EN

What problems do you have? (use extra pages if needed) _____

Do you have suggestions for improving this manual ? _____

Your name: _____ Date: _____

Company: _____ Position: _____

Address: _____

What are you using this manual for ? _____

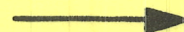
NOTE!

This form is primarily for documentation errors. Software and system errors should be reported on Customer System Reports.

Send to:

Norsk Data A.S
Documentation Department
P.O. Box 25, Bogerud
0621 Oslo 6, Norway

Norsk Data's answer will be found on reverse side



Answer from Norsk Data

Answered by

Date

Norsk Data A.S

Documentation Department
P.O. Box 25, Bogerud
0621 Oslo6, Norway

Systems that put people first

NORSK DATA A.S OLAF HELSETS VEI 5 P.O. BOX 25 BOGERUD 0621 OSLO 6 NORWAY
TEL.: 02 - 29 54 00 - TELEX: 18284 NDN