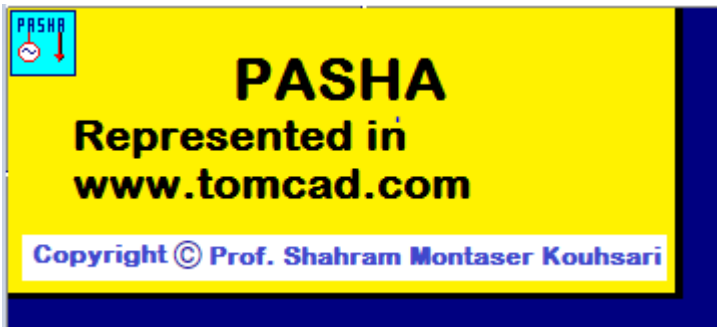

APPENDIX D

Special keys

This appendix gives a complete listing of all the special keys available in PASHA. They are listed for each section in terms of the menus available in each.

However, some keys are available in all or many sections which are listed below.

<]> key

Brings the mouse cursor to the centre of the screen (in resolution 640*480).

<[> key

Shifts the screen 30% to the right or left in the next redisplay of the screen. It is mostly needed in the edit pages (in resolution 640*480).

<F1,F2,F3,F4,F5> keys

Provides a direct connection between a graphic symbol of an element and the data assosiated with that element. If any of these keys typed while the cursors are positioned at an element symbol (busbar, line, transformer, generator, motor , obviously when the diagram is available , in drawing , or load flow , or fault level sections) the appropriate edit page corresponding to that element and the key which is pressed (F1 for data 1, F2 for data 2, F3 for data 3, F4 for data 4, F5 for data 5) will be displayed. The required element data is highlighted and the data is ready for editing.

Returning from the editing page will bring you back to the position where you have started and the appropriate analysis (if any) had been done automatically with the

new data.

This is a powerful tool for system study, when during the study many edition of the data is desired.

<F7> key

Produce an image of the screen on PCX files, starts with the name of PASH0001.PCX . This file may be later on called by MS WINDOWS.

<F9> key

This key can be pressed anywhere on the screen to enter 'notes' on the screen at that position. The notes are typed in after the position has been selected with the <F9> key, and should be terminated with the <CR> key.

<F10> key

This key can be pressed anywhere on the screen to enter 'notes' on the screen at that position. The notes are typed in after the position has been selected with the <F10> key, and should be terminated with the <CR> key.

D.1 The Main menu.

<H> key

When the <H> key is pressed when cursor is positioned over one of the main menu options, HELP information is displayed concerning that option.

<L> Key

If the <L> key is pressed when over the main menu, the option:

[TRANSIENT STABILITY CALCULATION]

is disabled. This changes the amount of data displayed in the Edit section, and inhibits transient stability calculations.

<O> Key

When used with [TRANSIENT STABILITY] option skips the calculation stage and reads the results from the last study <O> is short for 'old').

<S> Key

If the <S> key is pressed when over the main menu, the option:

[TRANSIENT STABILITY CALCULATION]

is enabled. This changes the amount of data displayed in the Edit section, and allows transient stability calculations to be carried out.

<T> Key

When pressed over the main menu enables a study title to be entered, which appears in the tabular output in the study sections.

D.2 Load flow main menu.

<1> Key

Displays Busbar loads and MVA flows on the network diagram, when pressed anywhere on the diagram, except over [PRINT], [PLOT], [FULL LIST], and [HELP] options.

When pressed over the [FULL LIST] option it displays the Line power flows section of the tabulated results.

<2> Key

Displays Busbar voltages and MW flows on the network diagram, when pressed anywhere on the diagram, except over [PRINT], [PLOT], [FULL LIST], and [HELP] options.

When pressed over the [FULL LIST] option it displays the overload circuits and violated voltage section of the tabulated results.

<3> Key

Displays Busbar voltages and MVAR flows on the network diagram, when pressed anywhere on the diagram, except over [PRINT], [PLOT], [FULL LIST], and [HELP] options.

When pressed over the [FULL LIST] option it displays the busbar section of the tabulated results.

<4> Key

Displays Busbar voltages and angles, and MW and MVAR

flows on the network diagram, when pressed anywhere on the diagram, except over [PRINT], [PLOT], [FULL LIST], and [HELP] options.

When pressed over the [FULL LIST] option it displays the area report of the tabulated results.

<5> Key

Displays Busbar voltages and angles MW and MVAR flows, and TAP SETTING on the network diagram, when pressed anywhere on the diagram, except over [PRINT], [PLOT], [FULL LIST], and [HELP] options.

When pressed over the [FULL LIST] option it displays the controls section of the tabulated results.

<6> Key

When pressed over the [FULL LIST] option it displays the induction motors section of the tabulated results.

<7> Key

When pressed over the [FULL LIST] option it displays the transformer tap-changes section of the tabulated results.

<X> Key

When pressed anywhere on the screen this key returns the user to the PASHA main menu.

D.3 Load flow display menu.

<X> Key

Pressing this key when positioned over one of the options selects that mode and returns to the load flow main section, and displays the network diagram in this mode.

D.4 Fault level min menu.

<1> Key

When pressed with the cursor away from the menu, this key selects the [L-G] option.

<2> Key

When pressed with the cursor away from the menu, this

key selects the [L-L] option.

<3> Key

When pressed with the cursor away from the menu, this key selects the [L-L-G] option.

<4> Key

When pressed with the cursor away from the menu, this key selects the [L-L-L] option.

<A> Key

When pressed over one of the fault options ([L-G], [L-L],[L-L-G],[L-L-L]) the Asymmetric RMS currents.

<P> Key

When pressed over one of the fault options ([L-G], [L-L],[L-L-G],[L-L-L]) the Asymmetric Peak currents.

<X> Key

When pressed anywhere on the screen this key returns the user to the PASHA main menu.

D.5 Fault level waveform menu.

<1> Key

When pressed with the cursor away from the menu, this key selects the [L-G-W] option.

<2> Key

When pressed with the cursor away from the menu, this key selects the [L-L W] option.

<3> Key

When pressed with the cursor away from the menu, this key selects the [L-L-G W] option.

<4> Key

When pressed with the cursor away from the menu, this key selects the [L-L-L W] option.

<X> Key

When pressed anywhere on the screen this key returns the user the PASHA main menu.

D.6 Edit and data base page menus

The following keys are applicable to the menu displayed at the bottom of each edit page, and the bottom of each data base page. All the special keys, operate with the [REDISPLAY] option.

<1> Key

Press this key to transfer from either DATA 3 or DATA 2 to the DATA 1 page.

<2> Key

Press this key to transfer from either DATA 3 or DATA 1 to the DATA 2 page.

<3> Key

Press this key to transfer from either DATA 1 or DATA 2 to the DATA 2 page.

<F> Key

Press this key to transfer to the next data table in the sequence:

line, transformer, generator, AVR, governor, induction motor, line, ...

<B> Key

Press this key to transfer to the previous group of data i.e. in reverse order to <F>.

<T> Key

Press this key to transfer from the data base pages to the corresponding plant group in the edit section, and vice-versa.

NOTE: when a DATA 2 or DATA 3 section does not exist, pressing <2> or <3> redisplays the current page.

D.7 The transient stability section.

There are two keys which can be used in the transient stability section, when the study has terminated, but before the options have been displayed.

<N> Key

This key can be pressed anywhere on the screen to enter 'notes' on the screen at that position. The notes are typed in after the position has been selected with the <N> key, and should be terminated with the <CR> key.

This key can also be used to enter notes on the graphs in the plotting section if required.

<O> Key

This key is pressed to call up the transient stability display/analysis options or interrupt the study in any time of calculation.

This key is also used to select the next graph to be plotted when plotting one per page in the transient stability plotting section.