Laser-Scan Ltd.

PLOTTING (FPP) - Acceptance Tests

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"FPP Acceptance" Category: Acceptance Tests

Issue 1.0	Ron Russell	6-Jan-1987
Issue 1.1	Paul Hardy	27-Jul-1987
Issue 1.2	Paul Hardy	9-Aug-1987
Issue 1.3	Clarke Brunt	14-Jun-1988
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1 Introduction

This document describes the acceptance test procedure for the FPP fast plotter program which is the major component of the Laser-Scan PLOTTING software package. It assumes that the user is familiar with digital cartography, and with operation of the FPP plotting program on DEC VAX computers. See the "PLOTTING Software Product Specification (SPS)" for a precise description of FPP. See the "FPP Reference Manual" for further information on FPP.

The relevant data for the acceptance tests are listed in appendix A and are supplied by Laser-Scan on installation of the system.

The detail of the plot output being tested will obviously be dependent on the installation and the particular plotter involved.

Note that Laser-Scan reserve the right to make minor modifications to this acceptance procedure to match their policy of continued software development.

2 Initialisation of Acceptance Test Environment

If not already set up as part of the LAMPS system installation, DCL symbols and logical names should be set up by giving the DCL command:

```
@dcl_filename
```

For the appropriate filename, see appendix A.

This sets up the DCL symbol FPP as a foreign command to run the particular version of FPP being used at your site. At sites with more than one type of plotter it will set up a series of DCL symbols eg. FPPPS, FPPCAL5800.

It will set up the following logical names if not already done:

1. LSL$IF: - this points to the directory containing the acceptance test IFF file

2. LSL$FRT: - this points to the directory containing the acceptance test FRT, SRI and TRI files

3 Running the FPP acceptance test

3.1 Invoking FPP

Invoke the program by giving the appropriate DCL command. At most sites this will be "FPP". At sites with more than one type of plotter it may be necessary to qualify this command by type of plotter eg. FPPBEN for Benson pen plotter. See appendix A for the command to use for these tests.

Note that FPP prompts for input with:-

```
FPP>
```

Pass [ ]/Fail [ ]

3.2 Reading commands from the terminal

3.2.1 Selection of FRT, SRI and TRI files -

Select a set of FRT, SRI, and TRI files by giving the command

```
FRT frt_filename
```

and note the message indicating successful reading of the FRT file. (For filename see appendix A).

Pass [ ]/Fail [ ]

3.2.2 Selection of scale for plotting -

The scale of the plotted map depends on the required map scale, and what the coordinates in the IFF file represent (e.g. ground metres or sheet mm).

Select the scale of the plotted map by giving the commands:-

```
SCALE SHEET sheet_scale
SCALE IFF   iff_scale
```

and the enlargement required by giving the command:-

```
ENLARGE enlarge_scale
```

The default action of FPP is to centre the plot in the drawing area. This is usually appropriate for a film plotter, but not necessarily on a roll paper plotter. If required, set the plot position by giving the command:-

```
POSITION position_number
```

(For values to be given to these commands, see appendix A).

Show that the scaling commands have been accepted by giving the command:-

SHOW SCALE

Pass [ ]/Fail [ ]

3.2.3 **Text handling** -

To tell the program how to deal with text, give the relevant FPP commands.

The required commands are given in appendix A. Note the next prompt indicating successful reading of the commands.

Pass [ ]/Fail [ ]

3.2.4 **Selection of IFF file** -

Select an IFF file to be plotted by giving command

IFF iff_filename

and note the messages indicating successful reading of SRI and TRI files. (For the iff_filename to be used, see appendix A).

Pass [ ]/Fail [ ]

Note the message giving the scale and extent of the plot and the confirmation of occurrence of each layer.

Pass [ ]/Fail [ ]

Confirm that the map is plotted as expected by examining the plot for size, content (all features plotted), and feature representation. If using a film plotter, or any device where the output cannot be examined without removing the medium, then defer checking the plot until the acceptance test is completed. Note the the final section of the plot may not be output until the FPP program exits.

Pass [ ]/Fail [ ]

3.3 **On-line HELP**

Obtain help on FPP commands by giving the commands:-

HELP

HELP SHOW

HELP SHOW TOL

Note the levels of information given.

Pass [ ]/Fail [ ]

3.4 **Exiting from FPP**

To exit from FPP give the command

EXIT

Pass [ ]/Fail [ ]

4 Conclusions

This completes the acceptance tests for the Laser-Scan PLOTTING software package.

Overall Pass [ ]/Fail [ ]

Comments:

Customer Representative: **Date:**

Laser-Scan Representative: **Date:**

APPENDIX A

Data to be used for acceptance test.

DCL file - dcl_filename @LSL$COM:PLOTTING_ACCEPT

Invocation DCL command FPPPS

FRT filename - frt_filename OS

IFF filename - iff_filename LITESDEMO

Scaling information:

sheet_scale	1250	!Map is 1:1250 scale
iff_scale	1000	!Units are metres (1000mm)
enlarge_scale	1	

Note - If plotting area is less than 50cm, then an appropriate enlarge_scale greater than 1 should be used.

Positioning information:

position_number	0 for roll medium plotters omit command (default 4) for sheet plotters

Text handing commands:

ENABLE HEIGHT
ENABLE POINT