Test to see if Captain could have created the six flight files.

(DRAFT V3.0)

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Introduction

At the moment there are three thought processes about the captains alleged practice flight into the Southern Indian Ocean.

1- He did create all the flight files

2- We are not sure if he created all the flight files

3 - He definitely could not have created all the flight files

So in order to try work out which one of the above fits in with the official narrative we should try to replicate what the captain would have done with his simulator and see if it is possible to create the flight files as shown in the official safety report.

Test Overview

We need to get those with extensive experience with the Windows 7 operating system, Microsoft Flight simulator 2004 and the add on aircraft the PSS Boeing 777 to come up with a recipe (i.e. detailed instructions) that can be followed by independent computer consultants that show what the captain would need to do to and also what the authorities needed to do after taking away his simulator such that they can successfully extract the six flight files as reported in the Malaysian Safety report.

So it is reasonable to assume if our top IT/Flight Simulator consultants are unable to produce the six flight files then one can very reasonably state that the retrieved flight files were not created by the captain.

The first thing that needs to be agreed by both sides i.e. those that 'believe it was the captain that created the six flight files' and 'those that believe he did not' is what should be included in the test.

Test Prerequisites

Because of the structure of the recovered flight simulator files it is clear that they were created automatically by the flight simulator program.

So therefore all flight files must be created in this manner.

Note, the flight files can be saved in any directory on the SSD drive.

The reason they must be saved on the SSD drive is that report specifically says the Microsoft Flight simulator 2004 flight files were found on the 'Extream SanDisk SSD 240 GB'.

Note, the files with the file names as above must all be saved in the one directory used by the flight simulator to hold the flight files.

Test details

Both sides would need to agree with the following:

Flight files positions as shown in the Malaysian Safety report

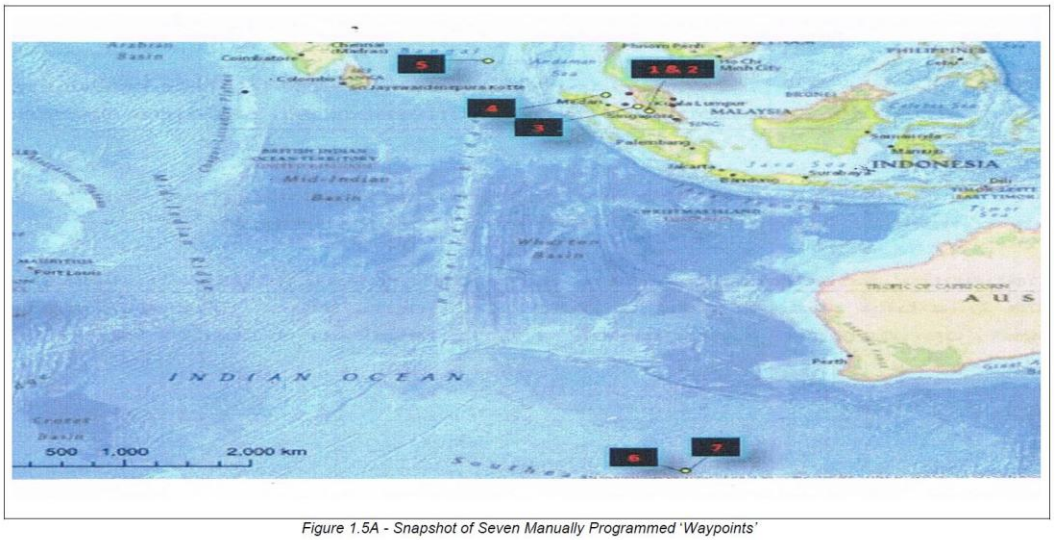

Figure 1.5A - Snapshot of Seven Manually Programmed 'Waypoints'

Source: Royal Malaysia Police

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Flight file latitudes and File names

	B	C	D	E	F	G	H
	Flight Sim Case	N2	N3	N5	N10	45S1	45S2
	Latitude	2.74	3.42	5.11	10.18	-45.09	-45.13
	FLT File Type Code	Prev_Sav		Program_Temp (D/ATSB)			

File number	Latitude *	File Name
1	2.74	Previous flight.FLT
2	3.42	Program generated temporary flight.FLT
3	5.11	Program generated temporary flight.FLT
4	10.18	Program generated temporary flight.FLT
5	-45.09	Program generated temporary flight.FLT
6	-45.13	Unknown

* When the files are generated the latitude and longitudes do not have to exactly match but should be set reasonably close to the values reported.

Computer set up to mimic the captain's flight simulator

We need to set up the computer as follows:

What	Details	Comments
A Computer	Just any Desktop computer	
Operating System	Windows 7 Ultimate	
System disk	An SSD Drive	It does not matter which internal SSD drive is used. Ideally use the same one. This was an Extream Sandisk SSD 240 GB.
Flight simulator software	Microsoft Flight Simulator 2004	
Aircraft used	PSS Boeing 777	This was the aircraft selected by the captain.

Boot up disk

It was confirmed the flight files which were found on the SSD drive (Extream Sandisk SSD 240 GB).

Most likely the SSD containing the flights files was the boot up disk. However this cannot be confirmed so any disk containing the Windows 7 operating system can be used in the test.

Test instructions for simulating what the captain did

Provide detailed instructions on what the flight simulator user would have to do in order to create the above flight files. Make the latitude/longitude reasonably close to the ones reported on. The computer can just be set to the current date.

The main idea is just create the six files as mentioned above with fairly similar latitude/longitudes and with the exact file names for the first five files. Note, as we do not know the name of the sixth flight then this can be reflected in the test.

Test instructions on how the authorities extracted out the six flight files

Provide detailed instructions on how the authorities extracted out the six flight files with the same file names (just for the first five files). Note, in the report it mentions that all the coordinates (i.e. latitude/longitudes) were extracted from the Volume Shadow Information.

Ideally these flight files should all be extracted from the Volume Shadow Information. However it is acceptable if they are just retrieved from the main disk area.

There is mention in the report that the authorities were using a Forensic Tool Kit.

This was:

(FTK) 4.2

FTK Imager 3.1

FTK Registry Viewer 1.6

Internet Evidence Finder 6.1

Encase V6.18.

These can be used if required. However, if they are used detailed instructions must be produced so an independent IT /Flight simulator consultant can replicate the results.

Summary

Once the detailed instructions for creating the flight files and then extracting them from the computer have been created an independent IT/Flight Simulator consultant can confirm the same.

There are some items that were mentioned in the previous draft of this document in this summary which are outside the scope of this test.

If required these can be covered at a later time once the test has been completed. These covered the topics of Simtime=0, No Boeing 777 parameters

and the fact the Australian Safety Transport Bureau (ATSB) are only releasing part of each flight file.

So to sum up at this stage all that matters is to create instructions that an IT/Flight simulator specialist can follow on a computer setup similar to the Captains's flight simulator and generate the above mentioned flight files.

This means a single directory on the SSD drive with these file names:

- Previous flight.FLT

- Program generated temporary flight.FLT

- Program generated temporary flight.FLT

- Program generated temporary flight.FLT

- Program generated temporary flight.FLT

- UNKNOWN