NATIONAL TRANSPORTATION SAFETY BOARD Office of Research and Engineering Vehicle Recorder Division Washington, DC 20594



GROUP CHAIRMAN'S FACTUAL REPORT OF INVESTIGATION ADDENDUM – FLIGHT SIMULATOR DATA Electronic Recording Devices and Flight Data Factual Report DCA15MA019

By Sean Payne

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division Washington, D.C. 20594

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ADDENDUM – FLIGHT SIMULATOR DATA Electronic Recording Devices and Flight Data

Group Chairman's Factual Report By Sean Payne

1. EVENT SUMMARY

Location: Koehn Dry Lake, California

Date: October 31. 2014

Vehicle: Model 339 SpaceShipTwo

Registration: N339SS

Operator: Scaled Composites NTSB Number: DCA15MA019

This addendum covers flight simulator data collected during the investigation. The flight simulator sessions included in this addendum are as follows:

- SIM SESSION 4 RUN 001
- SIM SESSION 4 RUN 003
- SIM SESSION 7 RUN 001
- SIM SESSION 7 RUN 002
- SIM SESSION 7 RUN 003
- SIM SESSION 8 RUN 001
- SIM SESSION 8 RUN 002
- SIM SESSION 8 RUN 003

The following 8 plots describe the vehicle's feather lock state, TAS, INS Mach and altitude. An indicator for INS Mach at Mach 1.4 and the time of the feather system state change is overlaid on each plot. Additional information about the simulator sessions can be found in the Operational Factors Group Chairman's Factual Report which can be found in the public docket for this accident.

Figure 1. SIM SESSION 4 - RUN 001
Scaled Composites SpaceShipTwo, PF04-SIM4-001, N339SS

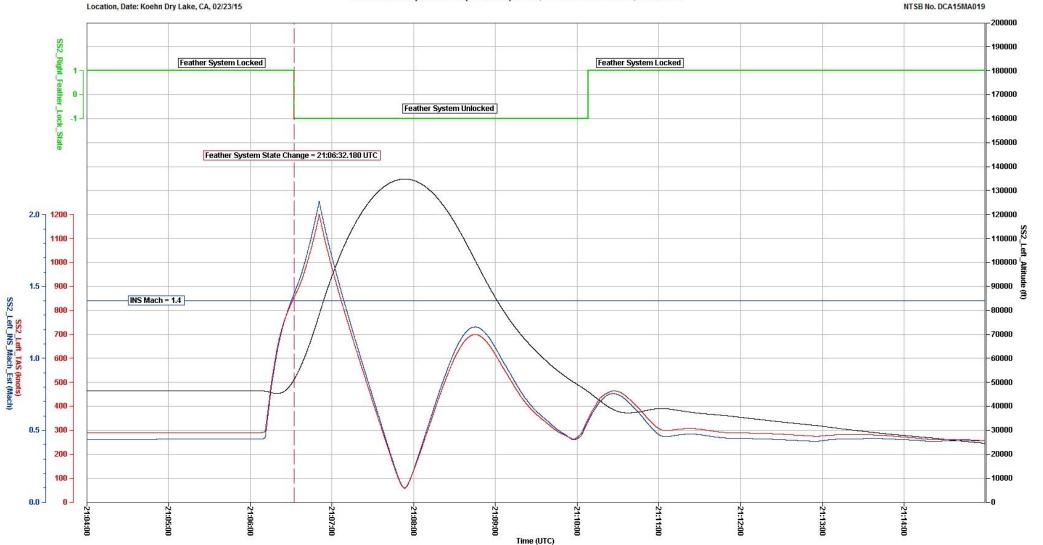


Figure 2. SIM SESSION 4 - RUN 003 Scaled Composites SpaceShipTwo, PF04-SIM4-003, N339SS

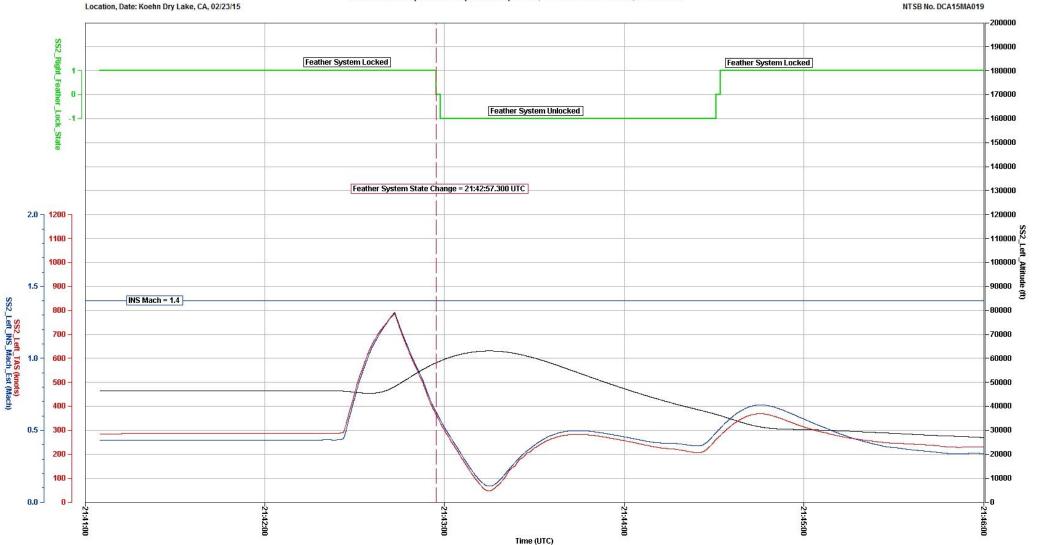


Figure 3. SIM SESSION 7 - RUN 001
Scaled Composites SpaceShipTwo, PF04-SIM7-001, N339SS

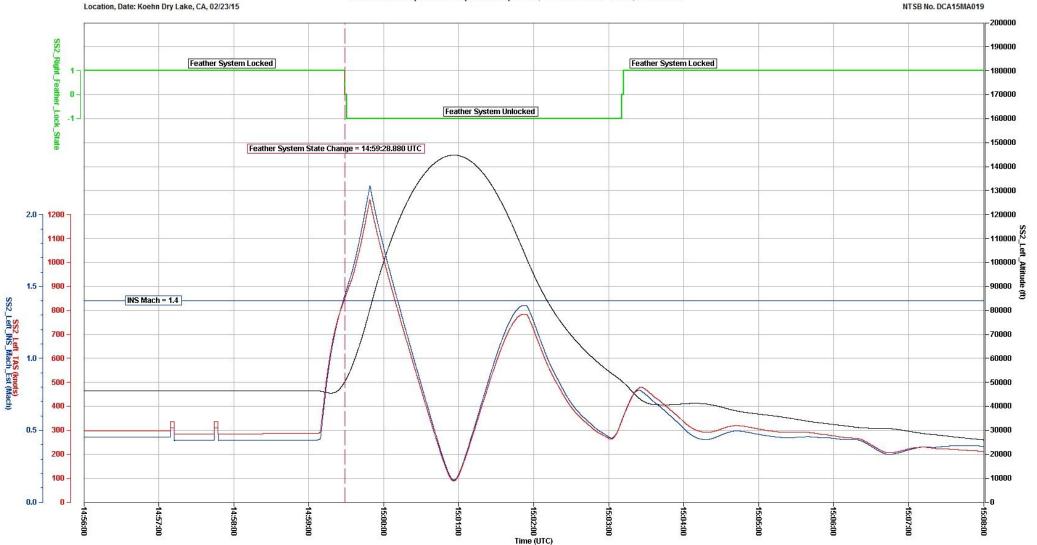


Figure 4. SIM SESSION 7 - RUN 002
Scaled Composites SpaceShipTwo, PF04-SIM7-002, N339SS

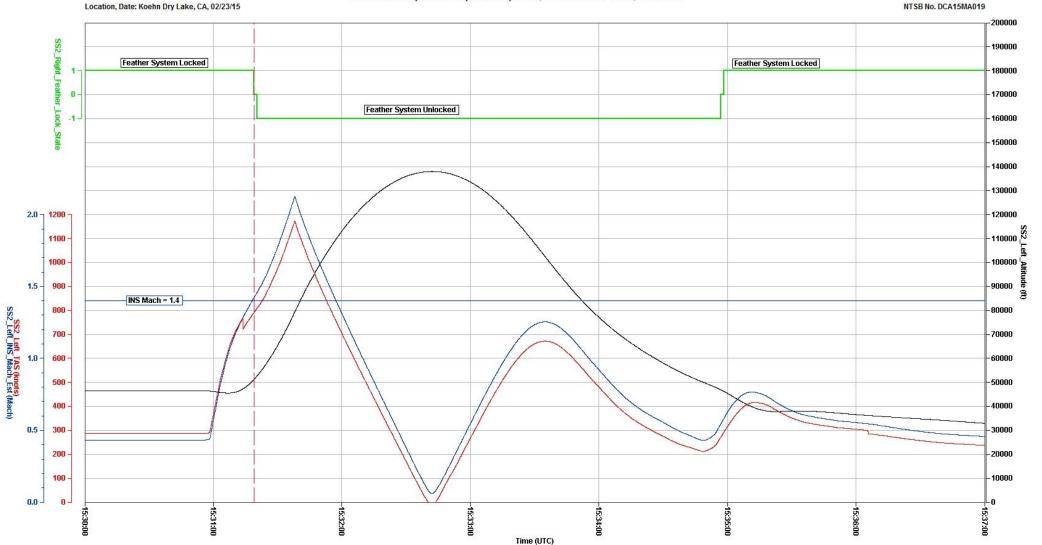


Figure 5. SIM SESSION 7 - RUN 003
Scaled Composites SpaceShipTwo, PF04-SIM7-003, N339SS

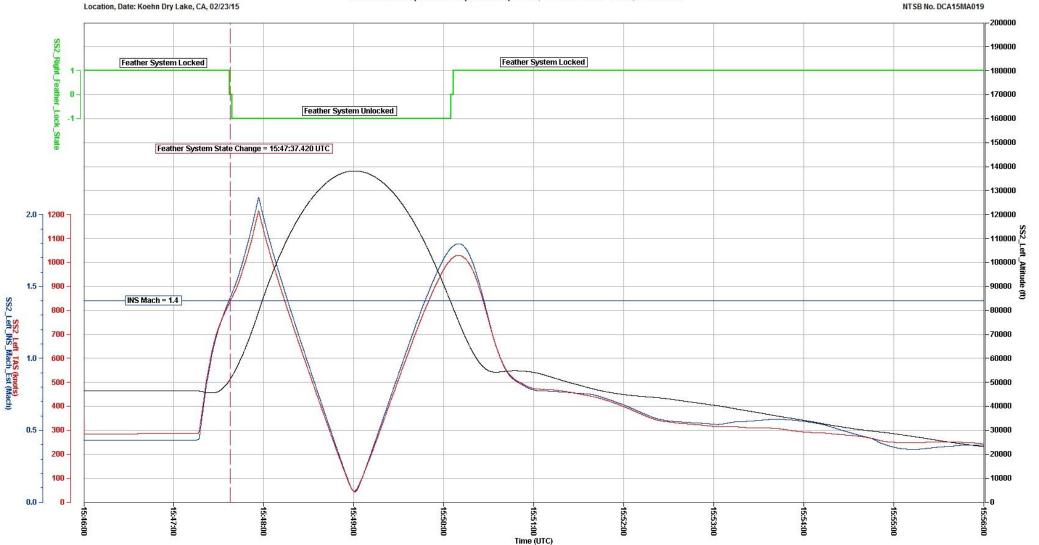


Figure 6. SIM SESSION 8 - RUN 001 Scaled Composites SpaceShipTwo, PF04-SIM8-001, N339SS

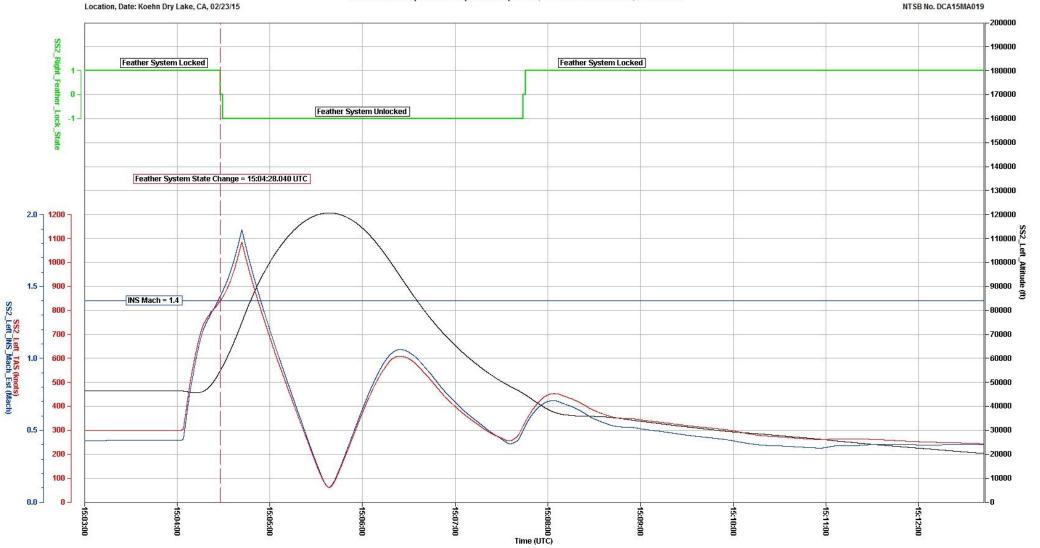


Figure 7. SIM SESSION 8 - RUN 002 Scaled Composites SpaceShipTwo, PF04-SIM8-002, N339SS

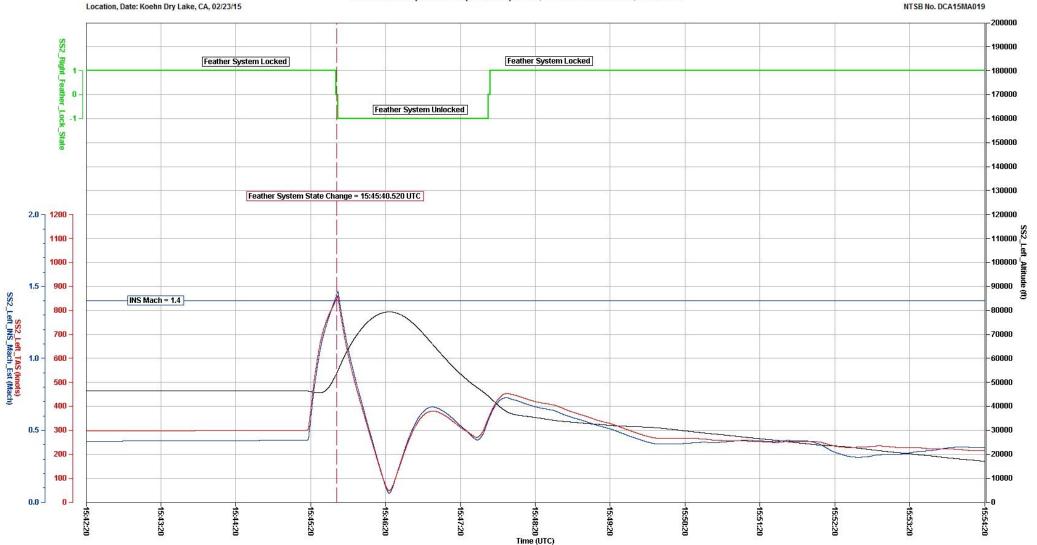


Figure 8. SIM SESSION 8 - RUN 003
Scaled Composites SpaceShipTwo, PF04-SIM7-001, N339SS

