

Flight Summary Report: AVE 2004 Mission, Data Flight #5, 7 November 2004

Aircrew: Scott Regan and Dom Del Rosso

Duration: 5.4 hrs

Takeoff: 11:09

Gear Up: 11:09

Gear Down: 15:38

Landing: 16:15

Point 3: 22°35'N 88°57'W

Point 4: 26°49'N 89°58'W

Point 5: 28°37'N 90°26'W

Point 6: 30°25'N 90°54'W

Point 7: 29°40'N 89°05'W

Flight Profile:

- 10:58 – DAT recorder on
- 11:11 – JHL on, CPL laser on
- 11:15 – CAFS Upper and Lower on
- We took off and flew through clear skies immediately overhead EFD, cleared to 15000.
- 11:23 – Photo taken south over broken cloud layer.
- 11:35 – Reached MAHEE @ FL520.
- 11:45 – End of broken cloud layer
- 11:54 – CAFS Lower fail
- 11:59 – CAFS Lower reset 1x
- 12:02 – Broken cloud layer about 15 nm N of FIR Merida
- 12:07 – Took photo of cloud cover.
- 12:12 – CAFS Upper fail
- 12:16 – CAFS Upper reset
- 12:17 – CAFS Upper and Lower were cycled per checklist w/o incident.
- 12:22 – Took photo (2) of reef.
- 12:23 – South Point 3
- 12:23 – Video tape recorder in cockpit was set to record.
- 12:26 – Ascended to FL560.
- 12:43 – Video tape recorder in cockpit turned off.
- 12:45 – Edge of cloud cover (125 nm from point 4).
- 12:55 – CAFS Lower fail
- 12:58 – Video tape recorder in cockpit was set to record.
- 12:59 – CAFS Lower reset 1x.
- 13:03 – Light turbulence noted.
- 13:15 – CAFS Upper and Lower were cycled per checklist w/o incident.
- 13:15 – Edge of broken cloud cover noted 24 nm from Point 5.
- 13:24 – Satellite overpass 22.5 nm from Point 5
- 13:24 – Took photos (2) W, E.

- 13:38 – ATC denied request to coordinate spiral due to traffic. Worked a plan to FL430.
- 13:46 – North Point 6, FL560
- 13:46 – Took photos (2) S, W.
- 13:47 – Turned off camcorder.
- 13:50 – Took photo of smoke.
- 14:00 – Spoiler decent, spiral down, with 1-minute straight-and-level dwell, FL560 at 290deg
- 14:05 – Took photo.
- 14:11 – Leg 1, FL 490 @ 300deg
- 14:15 – CAFS Upper and Lower were cycled per checklist w/o incident.
- 14:18 – Leg 2, FL 460 @ 300deg
- 14:25 – Leg 3, FL 430 @ 300deg
- 14:31 – Leg 4, FL 460 @ 300deg
- 14:37 – Leg 5, FL 490 @ 293deg
- 14:44 – Leg 6, FL 520 @ 300deg
- 14:51 – Leg 7, FL 550 @ 300deg
- 14:54 – Turned on camcorder.
- 15:07 – Smoke plumes noted over flight, FL562 @302 deg, 156 nm from SBI (29°41' N, 94°02' W).
- 15:12 – Camcorder screen flashing – turned off.
- 15:15 – Took smoke photo 126 nm from SBI, 25 nm E of track.
- 15:15 – CAFS Upper and Lower were cycled per checklist w/o incident.
- 15:17 – Took photo of smoke, heading 293, FL567, 20 nm E of track.
- 15:28 – Took photos (2) smoke N of position, 56 nm from SBI, 15 nm N of track.
- 15:31 – CPL laser fail light flickered.
- 15:32 – Took photo down of fire.
- 15:38 – S-HIS Sound fail indication, spoilers out – turned off due to end of mission.
- 15:38 – CPL laser fail
- 15:38 – Gear down
- 14:24 – CPL laser failed to reset 2x – turned off at FL450.
- 16:03 – JHL off (3,000 ft)
- 16:09 – SP-2 off, ARGUS off
- 16:15 – Land EFD

Instrument Issues:

- **CAFS** – The Upper and Lower failed but reset per check list.
- At the end of flight, CPL laser failed. Did not reset, per checklist.