

T-28 Pilot Report

Flight: 666
Date: 06171995
Flight Time: 17:10:23 – 18:36:31
Pilot: Charlie Summers
Controller: Dennis Musil
Location: Loveland, CO
Mission: Research flight

Computer Time	Video Time	Comments
17:10:23		Take-off
17:18:46		Field mill test for 1 min 34 sec, but not discernible due to precip charging and ambient fields
17:37:07		Orbit around a point 180°/10 nmi from Gill VORTAC
17:44:26		In-cloud, Pen #1; 260° hdng; 140 kts IAS; 12.5 kft alt
17:44:43		Out-of-cloud (same flight parameters)
17:45:01		In-cloud, Pen #2; 260° hdng; 140 kts IAS; 12.5 kft alt (different cloud)
17:45:52		Out-of-cloud (same flight parameters)
17:47:08		In-cloud, Pen #3; 260° hdng; 150 kts IAS; 12.5 kft alt (different cloud)
		Lgt rain
		Turn to 170° hdng while in mdt rain
		No ice
		Climb to 15 kft; 180° right turn to N
17:54:31		Out-of-cloud
17:57:36		In-cloud, Pen #4; 350° hdng; 120 kts IAS; 14.5 kft alt (same cloud)
18:00:18		Out-of-cloud; 020° hdng; 140 kts IAS; 15 kft alt
18:00:24		In-cloud, Pen #5; 015° hdng; 140 kts IAS; 15 kft alt (different cloud)
		Good bumps; mdt turb
18:04:52		Out-of-cloud (same flight parameters)
		Left turn to go back through
18:05:08		In-cloud, Pen #6; 210° hdng; 130 kts IAS; 15 kft alt (same cloud)
		Go 40° then another 10° left
		Mdt turb
18:08:42		Out-of-cloud; 160° hdng; 125 kts IAS; 15 kft
		Reverse to right; climb to FL 17
18:11:14		In-cloud, Pen #7; 360° hdng; 130 kts IAS; 17 kft alt (same cloud)
		Light rime ice
18:14:24		Out-of-cloud; 360° hdng; 130 kts IAS; 17 kft alt
		Reverse course
18:15:21		In-cloud, Pen #8; 180° hdng; 140 kts IAS; 17 kft alt (different cloud)
		Lgt/mtd turb; lgt rime ice
18:18:10		Out-of-cloud; 180° hdng; 140 kts IAS; 17 kft
		Reverse course to right
18:20:46		In-cloud, Pen #9; 020° hdng; 135 kts IAS; 17 kft alt (same cloud)
		Lgt to mdt turb
18:23:41		Out-of-cloud (same flight parameters)
		Reverse course to right

18:23:58		In-cloud, Pen #10; 180° hdgn; 140 kts IAS; 17 kft alt (same cloud)
		Lgt rime ice
18:26:46		Out-of-cloud; 185° hdng; 130 kts IAS; 17 kft alt; $\frac{1}{4}$ " rime ice
		Descend and RTB. Ice melts off at 12 kft
18:36:31		land

NOTES

Weather

Strong S winds with nearly overcast mid-level clouds all day. Convective cells started moving of mountains to the SW of DEN after 1600 MDT. Worked a storm to the W of CHILL that was moving rapidly NNE during the study. Andy noted evidence of high winds from storm as he drove from CHILL site back to Loveland airport.

Maintenance

Operations

Storm passes conducted at 12 kft, 15 kft, and 17 kft. No hail was observed. Field mill test was done in light precip. Precip ranged from light to moderate. Turbulence ranged from light to moderate. No lightning was observed. Vertical drafts ranged up to 1000 ft/min up or down. At most light rime ice accumulated on airframe.