



Hanscom Aero Club Safety Meeting

27 July 2022



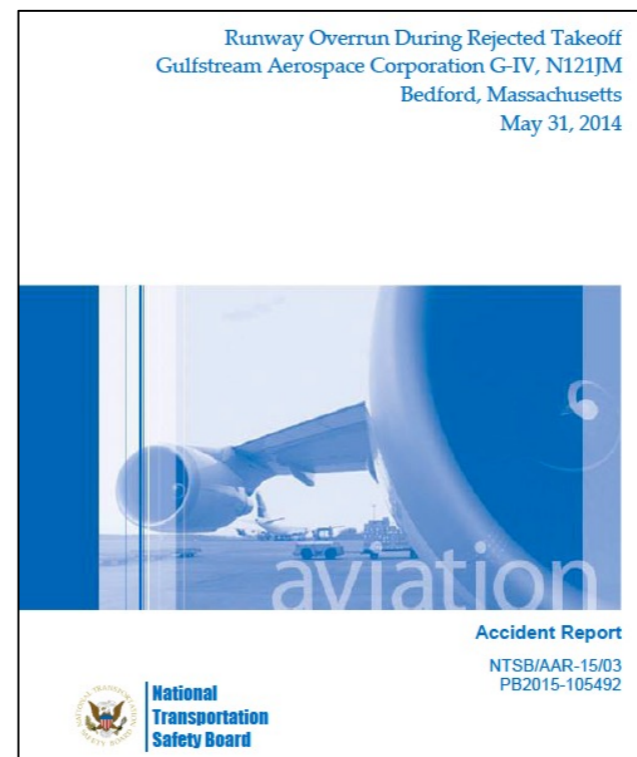
Outline

- **Aero Club Checklists**
- **Accidents Resulting from Failure to Use Checklists**



Checklist Use

- Errors of omission are some of the most common everyday forms of error, even among highly skilled experts, and have occurred in about 20% of flight crew-involved major accidents
- For optimum benefit, normal checklist items should be verbally called out by flight crewmembers using a challenge-verification-response format
- Executing checklists by memory or without standardized verbal callouts removes many of their benefits and leaves a flight crew more susceptible to error.

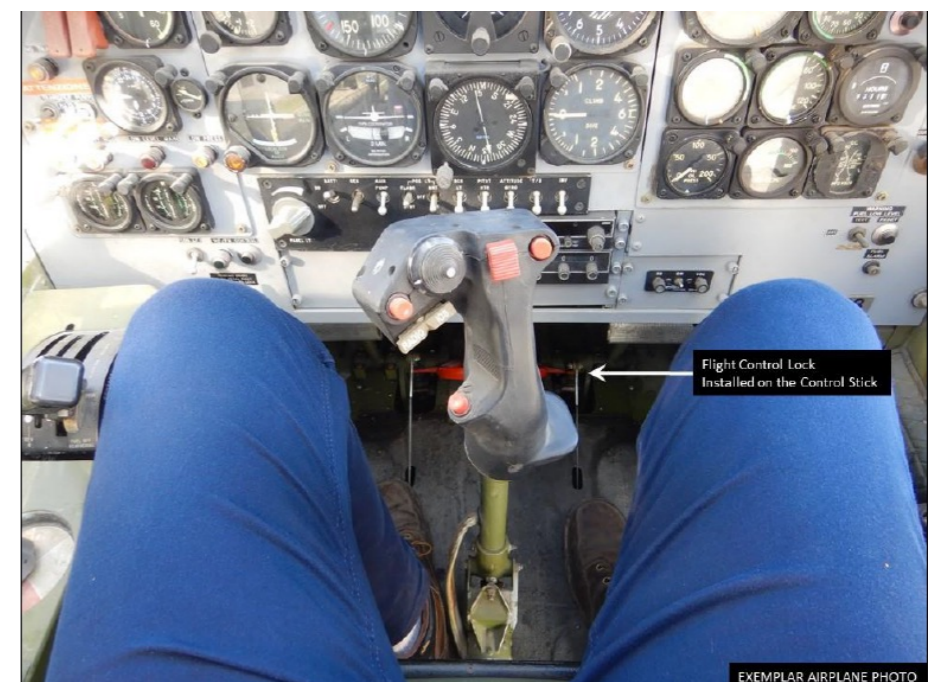
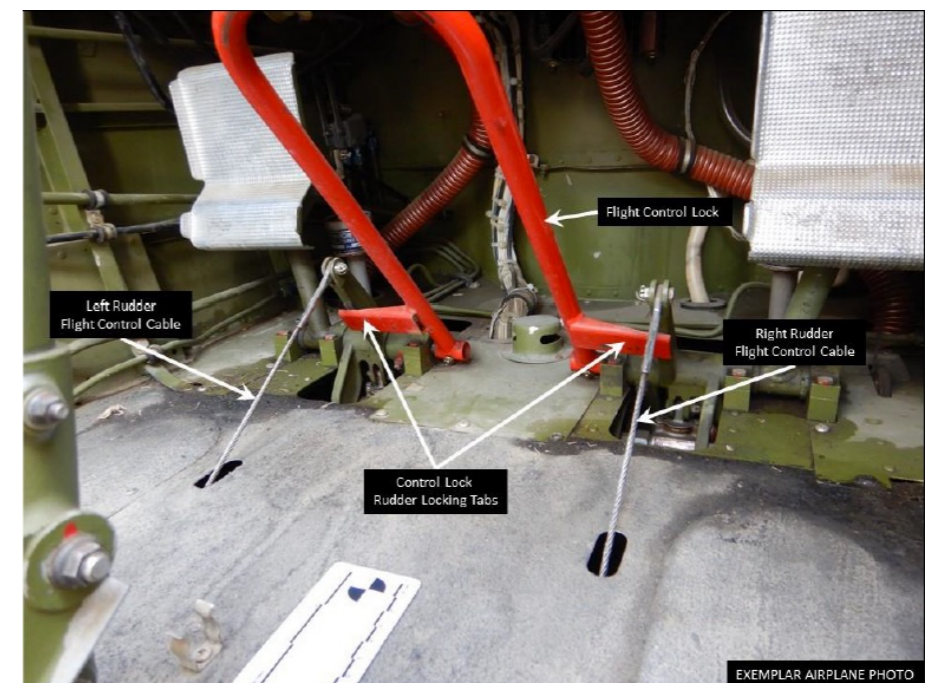


1. [NTSB AAR-15/03](#), "Aircraft Accident Report, Runway Overrun During Rejected Takeoff, Gulfstream Aerospace Corporation G-IV, N121JM, Bedford, Massachusetts, May 31, 2014," Section 2.2, pg 37



N28U Accident on July 24, 2021

- On July 24, 2021, an SIAI Marchetti SM.1019B, registration N28U, was destroyed at KLWS, Lewiston, Idaho
- The pilot, Navy aviator Dale “Snort” Snodgrass, was fatally injured.
- The Marchetti was owned by 717 Aviation Inc, and was being operated as a Part 91 flight.
- The [NTSB report](#), released on July 6, concluded that [Snodgrass](#) failed to remove his plane’s flight control lock
- “Had the pilot completed a functional check of the controls before initiating takeoff, the presence of the lock would have been detected and the accident would have been prevented.”
- <https://www.youtube.com/watch?v=EvODKP32Vq4>





Aero Club Checklists

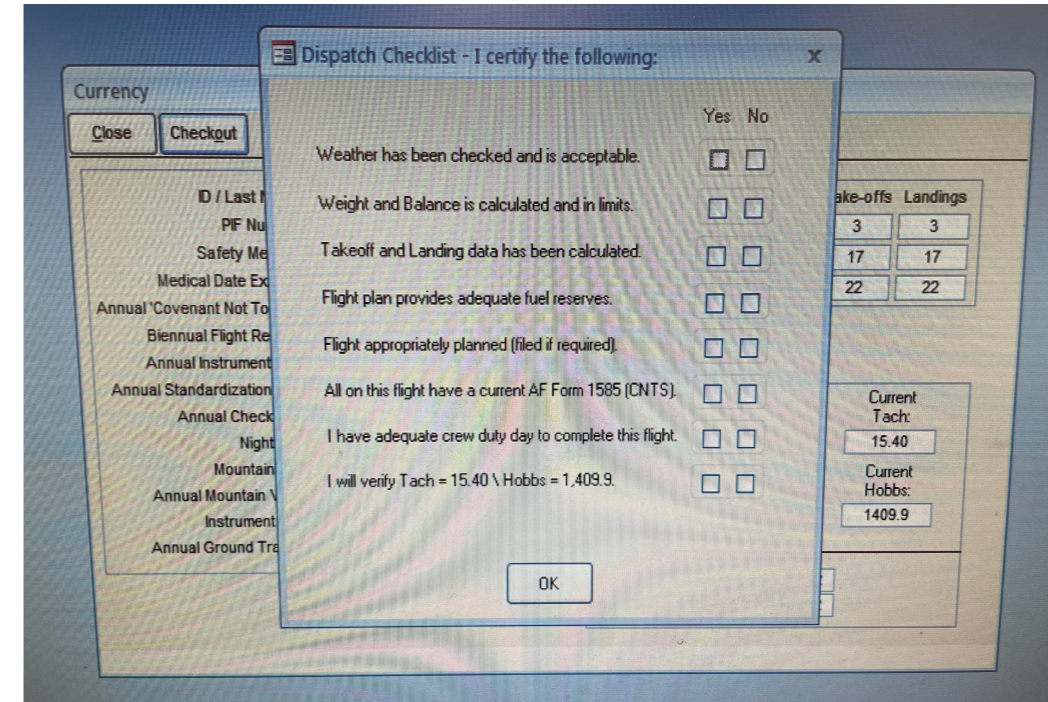
- **There's a reason USAF Aero Clubs require use of checklists**
- **Several expected to be completed prior to and during flight**
 - Preflight aids
 - Aircraft In-flight Operations
- **Some you should already have memorized**
 - Power Loss in Flight
 - Emergency Engine Restart
 - Engine Fire in Flight
 - Landing Checklist



Checklists on the Ground

CLEARANCE AUTHORITY'S CHECKLIST	
TYPE OF FLIGHT	<input type="checkbox"/> VFR <input type="checkbox"/> IFR <input type="checkbox"/> NIGHT <input type="checkbox"/> X/C
PILOT QUALIFICATION / CURRENCY	
<input type="checkbox"/> DISPATCH SLIP	(From Computer)
DS <input type="checkbox"/> PILOT NOT GROUNDED	(Grounded list in SOF book)
DS <input type="checkbox"/> COVENANTS CURRENT	(Member Folder, Attachments)
DS <input type="checkbox"/> CURRENT MEDICAL/ CERTIFICATES	(Member Folder)
DS <input type="checkbox"/> ANNUAL/ INITIAL CHECKOUT	(Member Folder)
DS <input type="checkbox"/> CURRENT WRITTEN EXAMS	(Member Folder)
DS <input type="checkbox"/> SAFETY MEETING ATTENDANCE/ BRIEFED	(Member Folder/ PIF Card-must attend 1/quarter)
DS <input type="checkbox"/> LATEST PIF SIGNED OFF	(Member Folder/ PIF Card)
DS <input type="checkbox"/> CURRENT FOR FLIGHT	(Logbook-IAW FAA & FTC regs)
<input type="checkbox"/> CURRENT ENDORSEMENTS	(Logbook-IAW FAA & FTC regs)
DS <input type="checkbox"/> CURRENT BFR (Biannual Flight Review)	(Logbook-IAW FAA & FTC regs)
DS <input type="checkbox"/> PILOT NOT EXCEEDED CREW DUTY DAY LIMITATIONS	(Length of scheduled time, When did they report to work?)
ONLY A FTC CFI CAN CLEAR STUDENT SOLO FLIGHTS	
<input type="checkbox"/> STUDENTS - DUAL WITHIN 30 DAYS	(Member Folder/ Logbook)
<input type="checkbox"/> STUDENTS - ENDORSEMENTS	(Member Folder/ Logbook)
AIRCRAFT STATUS	
<input type="checkbox"/> AIRCRAFT IN SERVICE	(Status Board/ AC binder)
<input type="checkbox"/> TIME SUFFICIENT BEFORE NEXT INSPECTION	(Status Board/ AC binder)
<input type="checkbox"/> DISCREPANCIES	(AC binder, 781A)
DS <input type="checkbox"/> WEIGHT AND BALANCE	(Attached if more than 2 aboard)
FLIGHT PLANNING	
<input type="checkbox"/> FLIGHT WILL NOT INTERFERE WITH NEXT PILOT	(Check Schedule)
<input type="checkbox"/> NOTAM's and TFR's	FSS
DS <input type="checkbox"/> WEATHER BRIEFING	(FSS or DUATS)
<input type="checkbox"/> WEATHER MINIMUMS	(FTC/ FAA Regulations)
<input type="checkbox"/> PASSENGER REQUIREMENTS MET	
<input type="checkbox"/> CURRENT CHARTS/ PUBLICATIONS	
<input type="checkbox"/> FLIGHT PLAN/ PERFORMANCE CALCULATIONS	
<input type="checkbox"/> V _{MCA} CALCULATION FOR BARON B55 @ ALTITUDE	
<input type="checkbox"/> AIRPORTS AND ALTERNATES SATISFACTORY	
DS <input type="checkbox"/> FUEL REMAINING UPON LANDING	(FTC regs)
<input type="checkbox"/> EQUIPMENT SUFFICIENT	(Nav/ Com, Flashlight, Survival Gear, etc.)
<input type="checkbox"/> CROSS COUNTRY OVER 72 HOURS SCHEDULED	Manager's Approval:
DS <input type="checkbox"/> FSS FLIGHT PLAN ON FILE	(FTC regs)
ALL TRASH AND PERSONAL ITEMS WILL BE REMOVED AFTER EACH FLIGHT	
REMARKS AND ITINERARY/ FUEL STOPS	
29. I certify that to the best of my knowledge the above information is true and the Pilot in Command is complying with FTC and FAA regulations.	
Signature of Clearance Authority/ SOF	

**Clearance Authority Checklist
(on reverse of ICAO flight plan form)**



ADP Dispatch Checklist

I'M SAFE CHECKLIST

Illness -- Do I have any symptoms?

Medication -- Have I been taking prescription or over-the-counter drugs?

Stress -- Am I under psychological pressure from the job? Worried about financial matters, health problems, or family discord?

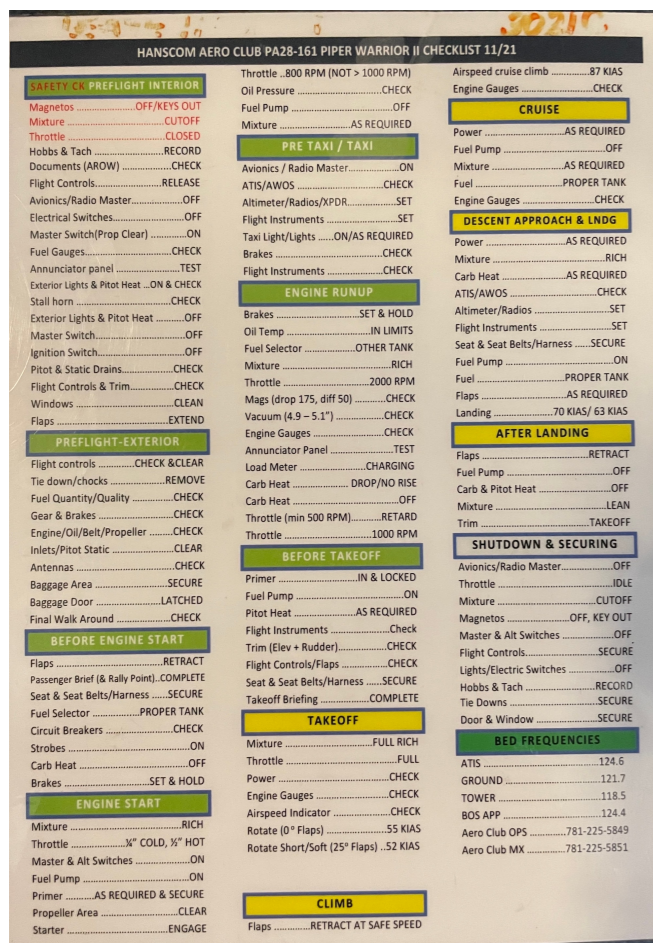
Alcohol -- Have I been drinking within 8 hours? Within 24 hours?

Fatigue -- Am I tired and not adequately rested?

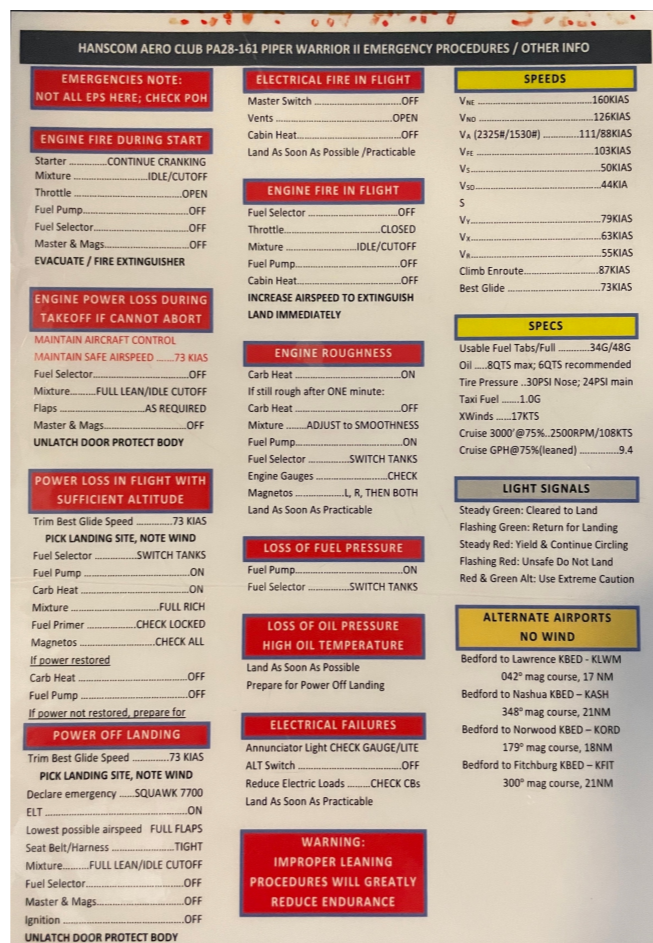
Eating -- Am I adequately nourished?



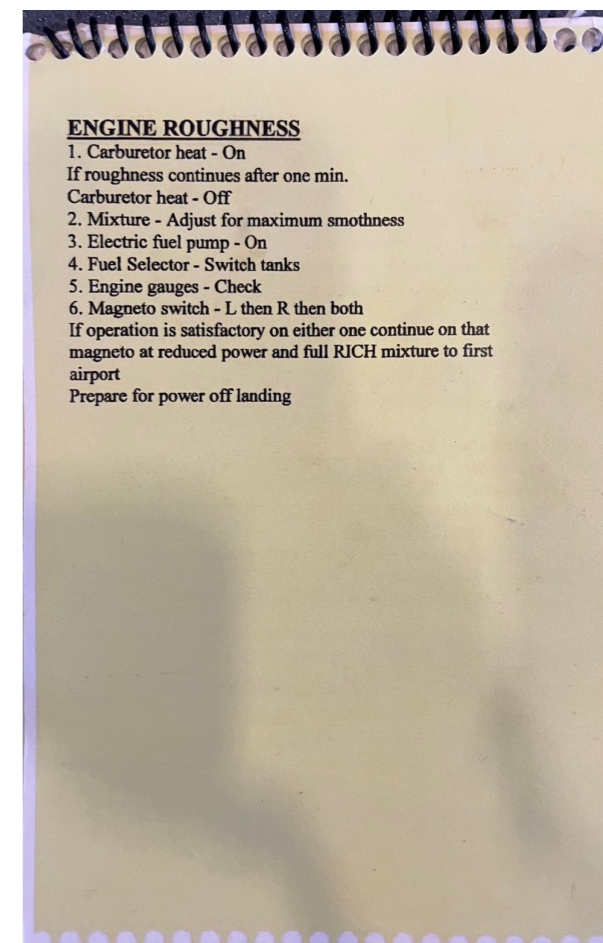
Checklists in the Plane



Hanscom Aero Club
“Checkmate” checklist
(Warrior, normal side)



Hanscom Aero Club
“Checkmate” checklist
(Warrior, Emergency Side)



Hanscom Aero Club
“Flipbook” checklist

**PA-28-161
Landing Checklist Placard**





Final Thoughts

- **Use your checklists!**
 - Even great pilots sadly have died because they failed to do so
 - The steps in them are all important, don't skip them unless consciously appropriate
 - » INOP system
 - » no Autopilot on the Warrior
- **Follow both the ground and in-flight checklists**
- **Memorize the critical ones you won't have time to look-up when seconds count**
 - Power Loss in Flight
 - Emergency Engine Restart
 - Engine Fire in Flight
 - Landing Checklist
- **Don't just say them in your head, verbalize the steps**
 - Don't just say it, do it after you say it and confirm
 - "Gear down, 3-green, no Red, check"