Green Castle Aero Club

Flight Simulator Checkout

Approved 04/22/2024, supersedes all previous versions

I. Manuals, Guides, and System Overview

☐ Ensure the new user can locate and has reviewed the following documents prior to the checkout
- ☐ *Qualification and Approval Guide*
- ☐ *System Startup and Shutdown Manual*
- ☐ *Avionics Manual*
- ☐ *Instructor Operator Station (IOS) Manual*

☐ Conduct a brief overview & identify the locations of all AATD components
> Power supply box, computer, WiFi router, projector & screens, IOS, flight deck

☐ Conduct a thorough introduction of the AATD flight deck and its elements
- ☐ All instruments, switches, & controls
  > **NOTE**: Circuit breakers can be pulled but have no effect on the system
  > **NOTE**: Expect slight lags or delays between analog inputs and digital system recognition
- ☐ Hobbs meter - used to record chargeable time while master switch is on (same as rental aircraft)
- ☐ Headset jacks for pilot and instructor
- ☐ Flight deck lighting (overhead from rear and under dash)

II. System Start & Setup

☐ Complete the step-by-step startup checklist (ref. *System Startup and Shutdown Manual*)

☐ Complete these scenario setup steps
- ☐ Complete the Startup Checklist (ref. *System Startup and Shutdown Manual*)
- ☐ Safely enter & exit the flight deck
  > **CAUTION**: Use care to lift & open doors without bumping projector screens!
- ☐ (optional) Connect electronic flight bag (EFB) to the AATD WiFi network

III. Operations

☐ Conduct a short flight: Use checklists, takeoff, fly a pattern, and land at Green Castle airport (IA24)

☐ Practice inducing system failures
- ☐ Catastrophic Engine Failure (Engines -> Failures -> Engine Fail 1)
- ☐ Loss of oil pressure (Engines -> Accessory -> Oil Pump 1)
- ☐ Alternator failure (Systems -> Electrical -> Generator 1)
- ☐ Vacuum pump failure (Instruments -> Sensor -> Vacuum Pump #1 & Vacuum Pump #2)
- ☐ Turn coordinator (Instruments -> Primary -> Pilot Turn Indicator)
- ☐ Pitot tube blockage (Instruments -> Sensor -> Pitot-tube #1 blockage)
- ☐ Flap malfunction (Control surfaces -> Lock at current -> Left/Right flap 1: Lock)

IV. System Shutdown

☐ Complete the step-by-step Shutdown Checklist (ref. *System Startup and Shutdown Manual*)

_____   _____   _____

Print New User Name   New User Signature   Date

_____   _____   _____

Print Instructor Name   Instructor Signature   Date