T-6A BOLDFACE Emergency Procedures and Operating Limitations		01 June 2023
Name	Checked By	Date

Section 1. BOLDFACE Emergency Procedures

Emergency Engine Shutdown on the Ground

PCL - OFF

FIREWALL SHUTOFF HANDLE - PULL

Abort

PCL - IDLE

BRAKES - AS REQUIRED

Engine Failure Immediately After Takeoff (Sufficient Runway Remaining Straight Ahead)

AIRSPEED - 110 KNOTS (MINIMUM)

PCL - AS REQUIRED

EMER LDG GR HANDLE - PULL (AS REQUIRED)

Engine Failure During Flight

ZOOM/GLIDE - 125 KNOTS (MINIMUM)

PCL - OFF

INTERCEPT ELP

Immediate Airstart (PMU NORM)

PCL - OFF

STARTER SWITCH - AUTO/RESET

PCL - IDLE, ABOVE 13% N1

Uncommanded Power Changes / Loss of Power / Uncommanded Propeller Feather

PCL - MID RANGE

PMU SWITCH - OFF

PROP SYS CIRCUIT BREAKER (left front console) - PULL, IF Np STABLE BELOW 40%

Inadvertent Departure From Controlled Flight

PCL - IDLE

CONTROLS - NEUTRAL

ALTITUDE - CHECK

Fire In Flight, If Fire is Confirmed:

PCL - OFF

FIREWALL SHUTOFF HANDLE - PULL

<32>PHYSIOLOGICAL SYMPTOMS

BOS PUSH MAN - PRESS ON

<30>OBOGS Failure / Overtemp / Physiological Symptoms/<32>OXY CRIT Annunciator

GREEN RING - PULL (AS REQUIRED)

DESCENT BELOW 10,000 FEET MSL - INITIATE

OBOGS SUPPLY LEVER - OFF (BOTH)

Eject

EJECTION HANDLE - PULL

Engine

Maximum Torque

Takeoff / Max **100** %

Transient **101** % to **107** % (**5** Seconds)

Torque above **107** % is indicative of a system malfunction.

Maximum ITT

Idle **750** °C

Takeoff / Max **820** °C

Transient **821** to **870** °C (**20** Seconds)

N_1

Idle **60** to **61** % Ground, **67** % (Min) Flight

Np

Idle **46** to **50** %

Takeoff / Max **100** %, (**100** % ± **2** % PMU Off)

Avoid stabilized ground operations from **62** to **80** % Np

Oil Pressure

Takeoff / Max **90** to **120** PSI

Aerobatics / Spins **40** to **130** PSI

Aerobatics / Spins (Idle) **15** to **40** PSI (**5** Sec)

Oil Temp

Takeoff / Max **10** to **105** °C

Transient **106** to **110** °C (**10** Min)

Maximum Fuel Flow

All phases of flight **799** **PPH**

Prohibited Maneuvers

1. **Inverted** Stalls
2. **Inverted** Spins
3. Aggravated **spins past 2 turns**
4. Spins with the PCL **above idle**
5. Spins with **landing gear**, **flaps**, or **speed brake** extended
6. Spins with the **PMU off**
7. Spins below **10,000** feet pressure altitude
8. Spins above **22,000** feet pressure altitude
9. Abrupt **cross-controlled (snap)** maneuvers
10. Aerobatic maneuvers, spins, or stalls with greater than **50** pounds fuel imbalance
11. **Tail** slides

Airspeed Limitations

Max Airspeed Gear and/or Flaps **150** KIAS

Max Operating Speed **316** KIAS or **0.67** Mach

Full rudder deflection above **150** KIAS will exceed the limits of the rudder control system.

Starting

Starter Limit: **20** Seconds

Wait **30** Sec, **2** Min, **5** Min, **30** Min after each start/motoring attempt

Maximum ITT **871** to **1,000** °C for **5** Sec (Do Not Attempt Restart)

Maximum Oil Pressure **200** PSI

Minimum Oil Temperature **-40** °C

Minimum Battery Voltage **23.5** V

Pressurization

Normal Above 18,000 Ft MSL **3.6** ± **0.2** PSI

Overpressurization Safety Valve Opens **4.0** PSI

Fuel

Normal Recovery Fuel **200** Pounds

Minimum Fuel **150** Pounds (**200** Pounds Solo)

Emergency Fuel **100** Pounds

Minimum Fuel for Aerobatics **150** Pounds per side

Runway

Minimum Landing Distance Available (LDA) **4,000** Feet, or heavy weight flaps **up** landing ground roll plus **500** Feet, whichever is greater

Minimum Runway Width **75** Feet

Winds

Maximum Crosswinds

Dry Runway	**25** Knots
Wet Runway	**10** Knots
Icy Runway	**5** Knots
Touch-and-Go	**20** Knots
Formation Takeoff / Landing	**15** Knots
Maximum Tailwind Component for Takeoff	**10** Knots
Maximum Wind with Canopy Open	**40** Knots

Acceleration Limits

Symmetric Clean	**-3.5** to **7.0** Gs
Symmetric Gear / Flaps	**0** to **2.5** Gs
Asymmetric Clean	**-1.0** to **4.7** Gs
Asymmetric Gear / Flaps	**0** to **2.0** Gs

Intentional Spin Entry

Minimum Altitude for Entry **13,500** Feet MSL

Minimum Cloud Clearance **7,000** Feet above clouds

Icing

Maximum Icing Band **5,000** Feet

Maximum Icing Type **light rime**

Temperature

Ground operation is limited to ambient temperatures of **-23** to **43** °C