

T-6A Boldface Emergency Procedures and Operating Limitations**01 Jul 2020**

Name	Checked By	Date
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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

OBOGS Failure / Overtemp / Physiological Symptoms

GREEN RING - PULL (AS REQUIRED)

DESCENT BELOW 10,000 FEET MSL - INITIATE

OBOGS SUPPLY LEVER - OFF

Eject

EJECTION HANDLE - PULL

Section 2. Operating Limits

01 Jul 2020

Engine	Starting
Maximum Torque Takeoff / Max <u>100</u> % Transient <u>132</u> % (<u>20</u> Seconds) Torque above <u>102</u> % is indicative of a system malfunction.	Starter Limit: <u>20</u> Seconds Wait <u>30</u> Sec, <u>2</u> Min, <u>5</u> Min, <u>30</u> Min after each start/motoring attempt Maximum ITT <u>871 to 1000</u> °C for <u>5</u> Sec (<i>Do Not Attempt Restart</i>) Maximum Oil Pressure <u>200</u> PSI Minimum Oil Temperature <u>-40</u> °C Minimum Battery Voltage <u>23.5</u> V
Maximum ITT Idle <u>750</u> °C Takeoff / Max <u>820</u> °C Transient <u>821 to 870</u> °C (Up to <u>20</u> Seconds)	Pressurization
N₁ Idle <u>60</u> to <u>61</u> % Ground, <u>67</u> % (Min) Flight	Normal Above 18,000 Ft MSL <u>3.6</u> ± <u>0.2</u> PSI Overpressurization Safety Valve Opens <u>4.0</u> PSI
N_p Idle <u>46</u> to <u>50</u> % Takeoff / Max <u>100</u> %, (<u>100</u> % ± <u>2</u> % PMU Off) Avoid stabilized ground operations from <u>62</u> to <u>80</u> % N _p	Fuel
Oil Pressure Takeoff / Max <u>90</u> to <u>120</u> PSI Aerobatics / Spins <u>40</u> to <u>130</u> PSI Aerobatics / Spins (Idle) <u>15</u> to <u>40</u> PSI (<u>5</u> Sec)	Normal Recovery Fuel <u>200</u> Pounds Minimum Fuel <u>150</u> Pounds (<u>200</u> Pounds Solo) Emergency Fuel <u>100</u> Pounds Minimum Fuel for Aerobatics <u>150</u> Pounds per side
Oil Temp Takeoff / Max <u>10</u> to <u>105</u> °C Transient <u>106</u> to <u>110</u> °C (<u>10</u> Minutes)	Runway
Prohibited Maneuvers	Minimum Landing Distance Available (LDA) <u>4,000</u> Feet or heavy weight flaps <u>up</u> landing distance plus <u>500</u> Feet, whichever is greater Minimum Runway Width <u>75</u> Feet
1. <u>Inverted</u> Stalls 2. <u>Inverted</u> Spins 3. Aggravated <u>spins past 2 turns</u> 4. Spins with the PCL <u>above idle</u> 5. Spins with the <u>landing gear</u> , <u>flaps</u> , or <u>speed brake</u> extended 6. Spins with the <u>PMU off</u> 7. Spins below <u>10,000</u> feet pressure altitude 8. Spins above <u>22,000</u> feet pressure altitude 9. Abrupt <u>cross-controlled (snap)</u> maneuvers 10. Aerobatic maneuvers, spins, or stalls with greater than <u>50</u> pounds fuel imbalance 11. <u>Tail</u> slides	Winds
Airspeed Limitations	Max Crosswinds Dry Runway <u>25</u> Knots Wet Runway <u>10</u> Knots Icy Runway <u>5</u> Knots Touch-and-Go <u>20</u> Knots Formation Takeoff / Landing <u>15</u> Knots Maximum Tailwind Component for Takeoff <u>10</u> Knots Maximum Wind with Canopy Open <u>40</u> Knots
Max Airspeed Gear and/or Flaps <u>150</u> KIAS Max Operating Speed <u>316</u> KIAS or <u>0.67</u> Mach Full rudder deflection above <u>150</u> KIAS will exceed the limits of the rudder control system.	Acceleration Limits
	Symmetric Clean <u>-3.5</u> to <u>7.0</u> Gs Symmetric Gear / Flaps <u>0</u> to <u>2.5</u> Gs Asymmetric Clean <u>-1.0</u> to <u>4.7</u> Gs Asymmetric Gear / Flaps <u>0</u> to <u>2.0</u> Gs
	Intentional Spin Entry
	Minimum Altitude for Entry <u>13,500</u> Feet MSL Minimum Cloud Clearance <u>7,000</u> Feet above clouds
	Icing
	Maximum Icing Band / Icing Type <u>5,000</u> Feet / <u>light rime</u>
	Temperature
	Ground operation is limited to ambient temperatures of <u>-23</u> to <u>43</u> °C