Miltech Simulations U-2

Emergency Procedures

Two emergency checklists for our rendition of the U-2S: oxygen failure or hypoxia, and a takeoff with the pogos still attached. Each checklist starts with what you see.

Warning
Simulation use only. These procedures are written from the behaviour of the simulation. They are not the real aircraft's emergency procedures and must not be used on a real aircraft.

OXYGEN FAILURE OR HYPOXIA

OXY with NO. 1 OXY or NO. 2 OXY (warnings: converter off, below 50 psi or 1 liter), LOW OXY QTY (both together below 2 L), HIGH OXY CONSUM RATE. Without usable oxygen and with the cabin above 8,000 ft the view narrows and dims.

1 OXYGEN SYSTEM 1 AND 2 - ON Oxygen panel, left console; OXY goes out after about 5 s → Cabin, Oxygen and Hypoxia

2 LOX QUANTITY AND PRESSURE - CHECK LIQUID OXYGEN gauge and SYS > PERF LOX 1 / LOX 2; about 80 psi with a system ON

3 CANOPY SEAL - ON With the seal OFF the cabin is at aircraft altitude

NO USABLE OXYGEN

4 DESCENT - IMMEDIATELY Descend at once, as fast as is safe, until the cabin is below 8,000 ft

5 CABIN ALTITUDE - BELOW 8,000 FT SYS > PERF ALTITUDE CABIN. Pressurized (seal ON), the cabin stays at or below 8,000 ft up to about 19,000 ft aircraft altitude; unpressurized, descend below 8,000 ft

Note
Note: Symptoms clear 45 s after oxygen is back, or 90 s after descending without it. Time to blackout without oxygen: about 4 min at a 25,000 ft cabin, 90 s at 30,000 ft, 10 to 20 s at 40,000 ft and above → Cabin, Oxygen and Hypoxia

Note
Note: The hypoxia simulation can be switched off on the EFB Settings tab → Electronic Flight Bag (EFB)

TAKEOFF WITH POGOS STILL ATTACHED

Both pogos still on after liftoff: the runway crew did not pull the pogo safety pins (you rolled early, or the chase car is off). With the pins in, neither pogo falls on the takeoff roll, and they stay on in normal flight.

1 CLIMB - SAFE ALTITUDE, WINGS LEVEL Fly the aircraft first: the pogos do not change how it handles

2 WINGS - ROCK HARD, LEFT AND RIGHT Four to seven hard roll reversals break a pinned pogo off → Introduction

3 POGOS - CHECK GONE Repeat step 2 until both have fallen

Note
Note: To avoid it, hold still on the runway with the chase car on (EFB Settings tab) until you hear "ground crew clear" → Chase Car and Ground Support Equipment

Related pages: Checklists · Warnings and Alerts · Cabin, Oxygen and Hypoxia

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