Version 1 PR 33

Emergency Checklists

Engine Failure During Ta	keoff Roll
Throttle	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	CUT-OFF
Magnetos	OFF
Standby battery	OFF
Master (ALT and BAT)	OFF

Engine Failure Immediately After Takeoff

Airspeed		Flaps up: 70	KIAS
*	Flaps	10°-FULL: 65	KIAS
Mixture		CUT	-OFF
Fuel shutoff va	lve	OFF (pull full	out)
Magnetos			OFF
Flaps	AS	REQUIRED (FULL
		recommen	ded)
Standby batter	y		OFF
Master (ALT an	d BAT)	OFF
Door		UNLA	ATCH
Land		STRAIGHT AF	HEAD

Engine Failure During Flight (Restart Procedures)

Airspeed	68 KIAS	(best glide speed)
Fuel shutoff	valve	ON (push full in)
Fuel selecto	r valve	BOTH
Fuel pump		ON
Mixture	RICH	(if restart has not
		occurred)
Magnetos		BOTH
If propelle	r stoppe	d: START, advance
throttle slo	owly, lear	n mixture as
required		
Fuel pump		OFF

If fuel flow drops to zero, turn fuel

Emergency Landing Without Engine

pump back on

Power	0
Seats, seatbelts	UPRIGHT, SECURE
Airspeed	Flaps up: 70 KIAS
Fla	ps 10°-FULL: 65 KIAS
Mixture	CUT-OFF
Fuel shutoff valve	OFF (pull)
Magnetos	OFF
Flaps	AS REQUIRED (FULL
	recommended)
Standby battery	OFF
Master (ALT and	OFF (when landing
BAT)	is assured)
Doors	UNLATCH BEFORE
	TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precautionary Landing With Engine Seats, seatbelts UPRIGHT, SECURE Airspeed 65 KIAS Flaps 20° Selected field FLY OVER, noting terrain and obstructions Flaps FULL (on final approach) 65 KIAS Airspeed Standby battery OFF Master (ALT and OFF (when landing BAT) assured) UNLATCH BEFORE Doors TOUCHDOWN SLIGHTLY TAIL LOW Touchdown **CUT-OFF** Mixture Magnetos OFF

Brakes **Ditching**

Radio	MAYD	AY on 121.5 MHz (Give
		location, intentions)
Transpon		SQUAWK 7700
Heavy ob	jects (ir	secure or
baggage a	area)	JETTISON (if
		possible)
Seats, sea	atbelts	UPRIGHT, SECURE
Flaps		20°-FULL
Power		300 FT/MIN DESCENT
		AT 55 KIAS
If no no		ilable approach flags

APPLY HEAVILY

AT 55 KIAS

If no power available, approach flaps
up 70 KIAS or flaps 10° 65 KIAS

Strong wind, heavy seas: LAND INTO
WIND

Light wind, heavy swells: LAND PARALLEL TO SWELLS

Doors UNLATCH
Touchdown LEVEL ATTITUDE at
established rate of
descent

Face CUSHION at touchdown with folded coat ELT ACTIVATE AIRDIAN EVACUATE THROUGH CABIN

DOORS
If necessary, open window and flood
cabin to equalize pressure so doors

Fire During Start on Ground

Magnetos switch	START (continu
	cranking to start th
	engine
If engine starts:	
Power 1800 RI	PM for a few minute
Engine	SHUTDOWI
If engine fails to s	tart:
Throttle	FUL
Mixture	CUT-OF
Magnetos switc	h START (continu
	cranking
Fuel shutoff val	ve OFF (pul
Fuel pump	OF
Magnetos	OF
Standby battery	/ OF
Master (ALT and	d BAT) OF
Engine	SECUR
Parking brake	RELEAS
Fire extinguishe	er OBTAII
Airplane	EVACUAT
Fire	EXTINGUISH via fir
extinguis	sher, wool blanket, o
_	dir

Both cases: inspect and repair damage before conducting another flight.

Engine Fire in Flight Mixture Fuel shutoff valve

. aci silatoli valve	O (pa)	
Fuel pump	OFF	
Master (ALT and BAT)	OFF	
Cabin heat and air	OFF (except	
	overhead vents)	
Airspeed	100 KIAS	
If fire not extinguished, increase		
speed to find an air	rspeed, within	
airspeed limitation	s, which provides	
an incombustible n	nixture	
Forced landing	EXECUTE	
Refer to Emergency	Landing Without	

CUT-OFF

OFF (pull)

OFF

Engine Power checklist Electrical Fire in Flight

Standby battery

Master (ALT and BAT)	OFF
Vents/cabin air/heat	CLOSE
Fire extinguisher	USE
Avionics (BUS 1 and BUS 2)	OFF
All switches (except magnetos)	OFF
Vents/cabin air/heat	OPEN
When sure fire is com	pletely
extinguished	
If fire extinguished and electrication	al
power necessary to continue fli	ght:
Circuit breakers CHECK, do no	ot reset
Master (ALT and BAT)	ON
Standby battery	ON
Avionics (BUS 1)	ON
Avionics (BUS 2)	ON

Cabin Fire Standby battery OFF OFF Master (ALT and BAT) CLOSE (to avoid Vents/cabin air/ heat drafts) Fire extinguisher USE Vents/cabin air/heat OPEN When sure fire is completely extinguished ASAP to inspect for damage

Emergency Checklists

Wing Fire

Landing, taxi lights	OFF
Nav, strobe lights	OFF
Pitot heat	OFF
NOTE: Sideslip to keep flames awa	ay
from fuel tanks and cabin. Land A	SAP
using flaps only as required for fir	nal
approach and touchdown	

Inadvertent Icing Encounter During Flight

Pitot heat	ON
Turn or change altitu	
OAT less conducive to	icing.
Cabin heat	FULL ON
Defrosters	OPEN
Cabin air	ADJUST
Maximize defroster	heat and airflow
Induction icing	MONITOR
Adjust throttle to ho	ld RPM. Adjust
mixture as needed f	or any change in

power settings
Land NEAREST AIRPORT
With an extremely rapid ice build-up,
select suitable off-airport landing site
With ≥ 1/4 inch of ice on the leading
edges, prepare for significantly

higher stall speed Flaps LEAVE RETRACTED Open left window and scrape ice from windshield, if necessary for visibility

Forward slip if necessary for visibility
Approach speed 65-75 KIAS
Depending on level of accumulation
Landing Perform in level attitude
Avoid missed approaches if possible
Missed approaches should be
avoided whenever possible

Static Source Blockage (Erroneous Instrument Reading Suspected)

Alternate	static	PULL ON
Alternate Cabin hea	at/air	PULL ON
Vents		CLOSED
Airspeed	Consult ca	alibration table
	Section 5. Fig	ure 5-1 of POH

Excessive Fuel Vapor (Fuel Flow Stabilization Procedures)

If flow fluctuates ≥ 1 GPH or power	
surges occur	
Fuel pump	ON
Mixture	ADJUST
as necessary for	smooth operation
Fuel selector valve	SELECT OTHER
	TANK (if symptoms
	continue)
Fuel pump	OFF (after fuel flow
•	stahilized)

Landing With a Flat Main Tire

Approach

Flaps		FULL	
Touchdown	GOOD	MAIN TIRE FIRST long as possible	ī
Keep flat tire	in air as	long as possible	ڊ
with aileron c	ontrol		
Directional co	ntrol	MAINTAIN using	5
		brake on good	ł

NORMAL

wheel as required

Landing With a Flat Nose Tire

Flaps AS REQUIRED Touchdown ON MAINS Hold nosewheel off ground as long as possible, maintain full up elevator as airplane slows to stop	Approach	NORMAL	
Hold nosewheel off ground as long as possible, maintain full up elevator as	Flaps	AS REQUIRED	
possible, maintain full up elevator as	Touchdown	ON MAINS	
	Hold nosewheel off	ground as long as	
airplane slows to stop	possible, maintain full up elevator as		
	airplane slows to sto	р	

HIGH VOLTS or M Bat Amps > 40 Master (ALT only) OFF

Master (ALT only) OFF Reduce Electrical Load checklist RUN

LOW VOLTS Annunciator Comes On < 1000 RPM

Throttle	1000 RPM	
Low voltage annunciator	VERIFY OFF	
If annunciator remains o	n, run "LOW	
VOLTS Annunciator On ≥	1000 RPM"	
checklist, and have electrical system		
inspected before next flip	ght	

LOW VOLTS Annunciator On ≥ 1000 RPM

Master (ALT only)	OFF
ALT FIELD breaker	CHECK IN
Master (ALT and BAT) LOW VOLTS annunciator)	NO.
LOW VOLTS annunciator)	VERIFY OFF
M Bus volts VERIFY 27.5	V minimum
	FY POSITIVE
If LOW VOLTS annunciator	r remains
on:	

OH.	
Reduce Electrical Load	RUN
checklist	

OFF

OFF

OFF

Reduce Electrical Load Avionics (BUS 1) Pitot heat

Landing light	OFF (use as req'd for
	landing
Cabin power 12V	
Note: When M bu	us volts drops below
	battery will supply
power to the esse	ential bus for at least
30 minutes	
COM1, NAV1	TUNE

Beacon, taxi, nav, strobe lights

COM1 MIC and NAV1 SELECT If COM2 MIC and NAV2 are selected when avionics bus 2 is off, the radios cannot be tuned

Avionics (BUS 2) OFF if clear of clouds The following items will not operate: autopilot, COM2, transponder, audio panel, NAV2, MFD

Land AS SOON AS PRACTICAL Make sure a successful landing is possible before extending flaps. Flap motor is a large electrical load.

Red X - PFD Airspeed Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1)
If open, reset circuit breaker. If circuit breaker opens again, do not reset Standby airspeed USE for airspeed indicator information

Red X - PFD Altitude Indicator

(ESS BUS and AVN BUS 1)
If open, reset circuit breaker. If circuit breaker opens again, do not reset
Standby altimeter
CHECK current barometric pressure SET. USE for altitude

information

ADC/AHRS circuit breakers CHECK IN

Red X - PFD Attitude Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1)
If open, reset circuit breaker. If circuit breaker opens again, do not reset Standby attitude USE for attitude indicator information

Red X - Horizontal Situation Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1) If open, reset circuit breaker. If circuit breaker opens again, do not reset Magnetic compass USE for heading information

PFD1 COOLING or MFD1 COOLING Annunciator(s)

Cabin heat REDUCE (minimum preferred)
Forward avionics CHECK (feel for airflow from screen on glareshield)

If forward avionics fan failed: Standby battery OFF unless needed for emergency

If PFD1 COOLING or MFD1 COOLING annunciator does not go off within 3 minutes or if both annunciators come on:

Standby battery OFF (land as soon as practical)

LOW VACUUM Annunciator Comes On

Vacuum indicator CHECK EIS ENGINE page to make sure vacuum pointer is within green arc

If vacuum pointer not in green arc or gyro flag shows on standby attitude indicator, do not use standby attitude indicator

High Carbon Monoxide (CO) Level

Cabin hea	t	OFF (push full in)
Cabin air		ON (pull full out) OPEN
Cabin vent	ts	OPEN
Windows	OPEN (16	3 KIAS maximum lows open speed)
	wind	lows open speed)

If high CO level remains:

Land AS SOON AS PRACTICAL