Version 1 PR 24

Emergency Checklists

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

Engine Failure Immediately After

Takeon	
Airspeed	Flaps up: 70 KIAS
Fla	ps 10°-FULL: 65 KIAS
Mixture	CUT-OFF
Fuel shutoff valve	OFF (pull full out)
Magnetos	OFF
Flaps A	S REQUIRED (FULL
	recommended)
Standby battery	OFF
Master (ALT and	BAT) OFF
Door	UNLATCH
Land	STRAIGHT AHEAD

Engine Failure During Flight

(Restart Procedures)			
Airspeed 68 KIA	AS (best glide speed)		
Fuel shutoff valve	ON (push full in)		
Fuel selector valve	BOTH		
Fuel pump	ON		
Mixture RIC	H (if restart has not		
	occurred)		
Magnetos	BOTH		
If propeller stopped: START, advance			
throttle slowly, lean mixture as required			
Fuel pump	OFF		
If fuel flow drops to zero, turn fuel			
pump back on			

Emergency Landing Without Engine Power

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

Precautionary Landing With Engine Power

Seats, seatbelts	UPRIGHT, SECURE
Airspeed	65 KIAS
Flaps	20°
Selected field	FLY OVER, noting
t	errain and obstructions
Flaps FU	ILL (on final approach)
Airspeed	65 KIAS
Standby battery	OFF
Master (ALT and	d OFF (when landing
BAT)	assured)
Doors	UNLATCH BEFORE
	TOUCHDOWN
Touchdown S	SLIGHTLY TAIL LOW
Mixture	CUT-OFF
Magnetos	OFF
Brakes	APPLY HEAVILY

Ditching Radio MAYDAY on 121.5 MHz (Give

	location, intentions)		
Transponder	SQUAWK 7700		
Heavy objects (in	SECURE or		
baggage area)	JETTISON (if		
	possible)		
Seats, seatbelts U	UPRIGHT, SECURE		
Flaps	20°-FULL		
Power 300	FT/MIN DESCENT		
	AT 55 KIAS		
If no power available, approach flaps up			
70 KIAS or flaps 10° 65 KIAS			
Strong wind, heavy seas: LAND INTO			
WIND			
	11 T 4 3 TT		

Light wind, heavy swells: LAND PARALLEL TO SWELLS

UNLATCH Doors LEVEL ATTITUDE at Touchdown established rate of descent CUSHION at touchdown with folded coat

ACTIVATE EVACUATE THROUGH Airplane CABIN DOORS

If necessary, open window and flood cabin to equalize pressure so doors can be opened

INFLATE WHEN Life vests, raft CLEAR OF AIRPLANE

Fire During Start on Ground

Inc Daims Sta	on on one
Magnetos switch	START (continue
	cranking to start the
	engine
If engine starts:	
Power 1800 R	PM for a few minute
Engine	SHUTDOWN
If engine fails to st	art:
Throttle	FUL
Mixture	CUT-OF1
Magnetos switch	START (continu
	cranking
Fuel shutoff valv	re OFF (pull
Fuel pump	OFI
Magnetos	OFI
Standby battery	OFI
Master (ALT an	d BAT) OFI
Engine	SECURI
Parking brake	RELEASI
Fire extinguishe	r OBTAIN
Airplane	EVACUATI
Fire I	EXTINGUISH via fir
extingui	sher, wool blanket, o
	dir

Engine Fire in Flight

Mixture	CUT-OFI
Fuel shutoff valve	OFF (pull
Fuel pump	OFI
Master (ALT and BAT)) OFI
Cabin heat and air	OFF (excep
	overhead vents
Airspeed	100 KIAS

Both cases: inspect and repair damage

before conducting another flight.

If fire not extinguished, increase speed to find an airspeed, within airspeed limitations, which provides an incombustible mixture

Forced landing Refer to Emergency Landing Without Engine Power checklist

OFF

OFF

ON

CLOSE

Electrical Fire in Flight Master (ALT and BAT)

Standby battery

Venta /oobin oin/hoot

vents/cabin air/neat	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 co	mpletely		
extinguished			
If fire extinguished and electrical power			
necessary to continue flight:			
Circuit breakersCHECK, do not reset			
Master (ALT and BAT)	ON		
Standby battery	ON		
Avionics (BUS 1)	ON		

Cabin Fire

Avionics (BUS 2)

Standby			OFF
Master (A	ALT and BA	AT)	OFF
Vents/cal	bin air/	CLOSE (to	o avoid
heat			drafts)
Fire extin	nguisher		USE
Vents/cal	bin air/heat		OPEN
When sure fire is completely			
	extinguis	hed	
Land	ASAP to	inspect for d	lamage

Emergency Checklists

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

Inadvertent Icing Encounter During Flight

Pitot heat	ON
Turn or change altitude	to obtain an
OAT less conducive to	icing.
Cabin heat	FULL ON
Defrosters	OPEN
Cabin air	ADJUST
Maximize defroster	heat and airflov
Induction icing	MONITOR
Adjust throttle to he	old RPM. Adjus
mixture as needed for	or any change in
power settings	

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

LEAVE RETRACTED Flaps 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 Perform in level attitude Landing Avoid missed approaches if possible Missed approaches should be avoided whenever possible

Static Source Blockage (Erroneous Instrument Reading Suspected)

Alternate	static	PULL ON
Cabin hea	t/air	PULL ON
Vents		CLOSED
Airspeed	Consult	t calibration table
	Section 5, F	igure 5-1 of POH

Excessive Fuel Vapor (Fuel Flow Stabilization Procedures)

If flow fluctuates \geq 1 GPH or power	
surges occur	
Fuel pump	ON
Mixture	ADJUST
as necessary for smooth operation	
Fuel selector valve	SELECT OTHER
	TANK (if symptoms
contin	
Fuel pump	OFF (after fuel flow
	stabilized)

Landing With a Flat Main Tire Approach

Flaps	FUI
Touchdown GOOD	MAIN TIRE FIRS
Keep flat tire in a	ir as long as possib
with aileron contr	
Directional control	MAINTAIN usin
	brake on good whe

Landing With a Flat Nose Tire

Approach	NORMAI
Approach Flaps	AS REQUIREI
Touchdown	ON MAINS
Hold nosewheel	off ground as long as
nessible mainte	in full up alaratan a

possible, maintain full up elevator as airplane slows to stop

HIGH VOLTS or M Bat Amps >

Master (ALT only)	OFF
Reduce Electrical Load checklist	RUN

LOW VOLTS Annunciator Comes $\mathrm{On} < 1000 \; \mathrm{RPM}$

Low voltage annunciator VERIFY OFF If annunciator remains on, run "LOW VOLTS Annunciator On ≥ 1000 RPM' checklist, and have electrical system inspected before next flight

LOW VOLTS Annunciator On ≥ 1000 RPM

1000 101 111	
Master (ALT only)	OFF
ALT FIELD breaker	CHECK IN
Master (ALT and BAT)	ON
LOW VOLTS	VERIFY OFF
annunciator)	
M Bus volts VERIFY 2	27.5V minimum

M Bat amps VERIFY POSITIVE If LOW VOLTS annunciator remains

Reduce Electrical Load checklist RUN

Reduce Electrical Load

AVIONICS (DUS 1)	OFF
Pitot heat	OFF
Beacon, taxi, nav, strobe lights	OFF
Landing light OFF (use as re	eq'd for
la	anding)
Cabin power 12V	OFF

Note: When M bus volts drops below 20V, the standby battery will supply power to the essential bus for at least 30 minutes

COM1, NAV1 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

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

NORMAL ADC/AHRS circuit breakers (ESS BUS and ST 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 ADC/AHRS circuit

breakers (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

Red X - PFD Attitude Indicator

ADC/AHRS circuit CHECK IN breakers (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 CHECK IN breakers (ESS BUS and AVN BUS 1)

If open, reset circuit breaker. If circuit breaker opens again, do not reset

USE for heading Magnetic compass information

PFD1 COOLING or MFD1 COOLING Annunciator(s)

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

on glareshield) If forward avionics fan failed:

Standby battery OFF unless needed for emergency power

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

ENGINE page to make sure vacuum pointer is within green arc

CHECK EIS

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 heat OFF (push full in) Cabin air ON (pull full out) Cabin vents OPEN Windows OPEN (163 KIAS maximum

windows open speed) If high CO level remains:

Land AS SOON AS PRACTICAL