Version 1 PR 30

## **Emergency Checklists**

<b>Engine Failure During Takeoff Roll</b>		
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	valve OFF (pull full out)	
Magnetos	OFF	
Flaps	AS REQUIRED (FULL	
	recommended)	
Standby battery OFF		
Master (ALT and BAT) OF		
Door	UNLATCH	
Land	STRAIGHT AHEAD	

# Engine Failure During Flight (Restart Procedures)

Airspeed 68 KIAS (best glide speed)
Fuel shutoff valve ON (push full in)
Fuel selector valve BOTH
Fuel pump ON
Mixture RICH (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

# **Emergency Landing Without Engine Power**

pump back on

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

# Precautionary Landing With Engine Power

Eligine Fow	eı	
Seats, seatb	elts	UPRIGHT, SECURE
Airspeed		65 KIAS
Flaps		20°
Selected fiel	d	FLY OVER, noting
		terrain and
		obstructions
Flaps	FULL	(on final approach)
Airspeed		65 KIAS
Standby bat	tery	OFF
Master (ALT	and	OFF (when
BAT)		landing assured)
Doors		UNLATCH BEFORE
		TOUCHDOWN
Touchdown	S	LIGHTLY TAIL LOW
Mixture		CUT-OFF
Magnetos		OFF
Brakes		APPLY HEAVILY

### Ditching

Radio MAYD.	AY on 121.5 MHz (Give
	location, intentions)
Transponder	SQUAWK 7700
Heavy objects (	(in SECURE or
baggage area)	JETTISON (if
	possible)
Seats, seatbelts	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 Light wind, heavy swells: LAND PARALLEL TO SWELLS

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

Face Cosinon at totchdown with folded coat ELT ACTIVATE Airplane EVACUATE THROUGH

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

Life vests, raft INFLATE WHEN CLEAR OF AIRPLANE

### Fire During Start on Ground

Magnetos switch	START (continu cranking to star
	the engine
If engine starts:	_
Power 1800 RI	PM for a few minute
Engine	SHUTDOW
If engine fails to	start:
Throttle	FUL
Mixture	CUT-OF
Magnetos	START (continu
switch	cranking
Fuel shutoff va	alve OFF (pull
Fuel pump	OF
Magnetos	OF
Standby batter	ry OF
Master (ALT a	nd BAT) OF
Engine	SECUR
Parking brake	RELEAS
Fire extinguis	her OBTAI
Airplane	EVACUAT
Fire	EXTINGUISH via fir

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

extinguisher, wool blanket, or

### **Engine Fire in Flight**

mixture	CUI-OFF
Fuel shutoff valve	OFF (pull)
Fuel pump	OFF
Master (ALT and BAT	C) OFF
Cabin heat and air	OFF (except
	overhead vents)
Airspeed	100 KIAS

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

Forced landing EXECUTE

Refer to Emergency Landing

Refer to Emergency Landing Without Engine Power checklist

## Electrical Fire in Flight

Standby Dattery	Off	
Master (ALT and BAT)	OFF	
Vents/cabin air/heat	CLOSE	
Fire extinguisher	USE	
Avionics (BUS 1 and BUS 2)	OFF	
All switches (except magnetos	s) OFF	
Vents/cabin air/heat	OPEN	
When sure fire is completely		
extinguished		

If fire extinguished and electrical power necessary to continue flight:
Circuit breakers CHECK, do not

	reset
Master (ALT and BAT)	ON
Standby battery	ON
Avionics (BUS 1)	ON
Avionics (BUS 2)	ON

#### Cabin Fire

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

## **Emergency Checklists**

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

## Inadvertent Icing Encounter During

rngnt	
Pitot heat	ON
Turn or change a	ltitude to obtain an
OAT less conduci	ve to icing.
Cabin heat	FULL ON
Defrosters	OPEN
Cabin air	ADJUST
Maximize defros	ster heat and airflow
Induction icing	MONITOR
Adjust throttle t	o hold RPM. Adjust
mixture as need	ed for any change ir
power settings	
Land	NEAREST AIRPORT

up, select suitable off-airport landing site With  $\geq 1/4$  inch of ice on the leading edges, prepare for significantly

With an extremely rapid ice build-

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 Cabin heat/air	PULL ON
Cabin heat/air	PULL ON
Vents	CLOSED
Airspeed Consult	calibration table
Section 5	Figure 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		smooth operation
	Fuel selector valve	SELECT OTHER
		TANK (if
		symptoms
		continue)
	Fuel pump C	OFF (after fuel flow
		stabilized)

### Landing With a Flat Main Tire

Approach	NORMA
Flaps	FUL
Touchdown	GOOD MAIN TIRE FIRST
	p flat tire in air as long a
pos	sible with aileron contro
Directional	MAINTAIN usin
control	brake on goo
	wheel as require

### Landing With a Flat Nose Tire

Approach	NORMA
Flaps	AS REQUIRE
Touchdown	ON MAIN
Hold nosewheel off ground as long a	
possible, maintain full up elevator a	
airplane slows to stop	

#### HIGH VOLTS or M Bat Amps > 40

Master (ALT only)	OFF
Reduce Electrical Load	checklist RUN

## LOW VOLTS Annunciator Comes On < 1000 RPM

Throttle	1000 RPM
Low voltage annunciate	or VERIFY OFF
If annunciator remains	
<b>VOLTS Annunciator On</b>	≥ 1000 RPM"
checklist, and have elec	trical system
inspected before next fl	ight
<u> </u>	•

## LOW VOLTS Annunciator On ≥ 1000

Master (ALT	only)	OF
ALT FIELD bi	reaker	CHECK IN
Master (ALT a	and BAT)	O
LOW VOLTS		VERIFY OF
annunciator)		
M Bus volts	VERIFY 27.	.5V minimun
M Bat amps		IFY POSITIVI
If LOW VOLTS	S annuncia	tor remains
on:		
Reduce Ele	ctrical Loa	d RUN

### Reduce Electrical Load

checklist

Avionics (BUS 1)	)	OFF
Pitot heat		OFF
Beacon, taxi, na	v, strobe lights	OFF
Landing light	OFF (use as req	'd for
	lan	ding)

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

30 minutes
COM1, NAV1 TUNE
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 breakersCHECK IN (ESS BUS and AVN BUS 1) If open, reset circuit breaker. If circuit breaker opens again, do not

Standby airspeed USE for airspeed indicator information

#### Red X - PFD Altitude Indicator

ADC/AHRS circuit breakersCHECK IN (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 breakersCHECK 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 breakersCHECK 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 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

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

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
Vindows OPEN (163 KIAS maximum	
	windows open speed)

If high CO level remains:

Land AS SOON AS PRACTICAL