Version 1 PR 23

## **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 Takeoff

Airspeed	Flaps up: 70 KIAS
	Flaps 10°-FULL: 65 KIAS
Mixture	CUT-OFF
Fuel shutoff val	ve OFF (pull full out)
Magnetos	OFF
Flaps	AS REQUIRED (FULL
	recommended)
Standby battery	OFF
Master (ALT ar	d BAT) OFF
Door	UNLATCH
Land	STRAIGHT AHEAD

# Engine Failure During Flight (Restart Procedures)

(Restart I Iu	cedures	,	
Airspeed	68 KIAS	S (best glide speed)	
Fuel shutoff v	alve	ON (push full in)	
Fuel selector	valve	BOTH	
Fuel pump		ON	
Mixture	RICE	I (if restart has not	
		occurred)	
Magnetos		BOTH	
If propeller stopped: START, advance			
throttle slowly, lean mixture as required			
Fuel pump		OFF	
If fuel f	low drop	os to zero, turn fuel	
pump b	ack on		

## Emergency Landing Without

Engine Power	
Seats, seatbelts	UPRIGHT, SECURE
Airspeed	Flaps up: 70 KIAS
F	laps 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 Power

rower	
Seats, seatbelt	s UPRIGHT, SECURE
Airspeed	65 KIAS
Flaps	20°
Selected field	FLY OVER, noting terrain
	and obstructions
Flaps	FULL (on final approach)
Airspeed	65 KIAS
Standby batte	ry OFF
Master (ALT a	and OFF (when landing
BAT)	assured)
Doors	UNLATCH BEFORE
	TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Mixture	CUT-OFF
Magnetos	OFF
Brakes	APPLY HEAVILY

MAYDAY on 121.5 MHz (Give

location intentions

CABIN DOORS

OF AIRPLANE

#### Ditching Radio

	location, intentions)	
Transponder	SQUAWK 7700	
Heavy objects (in	n 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 avai	ilable, 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	
est	tablished rate of descent	
Face CUSH	ION at touchdown with	
	folded coat	
ELT	ACTIVATE	
Airplane	EVACUATE THROUGH	

If necessary, open window and flood

be opened.

cabin to equalize pressure so doors can

Life vests, raft INFLATE WHEN CLEAR

#### Fire During Start on Ground

Magnetos switch	START (continu
Magnetos switch	,
	cranking to start th
	engine
If engine starts:	
Power 1800 F	PM for a few minute
Engine	SHUTDOW
If engine fails to st	art:
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 an	d BAT) OF
Engine	SECUR
Parking brake	RELEAS
Fire extinguishe	r OBTAII
Airplane	EVACUAT
Fire	EXTINGUISH via fir
extinguishe	r, wool blanket, or di
Both cases: inspec	t and repair damage
before conducting	another flight.

#### Engine Fire in Flight

CUT-OF
OFF (pull
OF
OF.
(except overhead
vents
100 KIA

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

Forced landing EXECUTE

Forced landing EXECUTE Refer to Emergency Landing Without Engine Power checklist

# Electrical Fire in Flight Standby battery OFF Master (ALT and BAT) OFF Vents/cabin air/heat CLOSE

Vents/cabin air/heat Clober

Avionics (BUS 1 and BUS 2) OFF

All switches (except magnetos) 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	y	OFF
Master (ALT ar	nd BAT)	OFF
Vents/cabin air/heat		CLOSE (to avoid
		drafts)
Fire extinguish	er	USE
Vents/cabin air	/heat	OPEN
When sure fire is completely		
exti	nguish	ed
Land AS	AP to in	nspect for damage

## **Emergency Checklists**

Wing Fire	
Landing, taxi lights	OFF
Nav, strobe lights	OFF
Pitot heat	OFF
NOTE: Sideslip to keep flames away	y
from fuel tanks and cabin. Land ASAP	
using flaps only as required for final	
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 airflo			
	Induction icing	MONITOR	
Adjust throttle to hold RPM. Adjust			
	mixture as needed for 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 s	tatic	PULL ON
Cabin heat	/air	PULL ON
Vents		CLOSED
Airspeed	Consult c	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	
		stabilized)	

#### Landing With a Flat Main Tire

Approach			NORMA
Flaps			FUL
Touchdown	GOOD	MAIN	TIRE FIRS
Keep flat tire in air as long as possibl			
with aileron control			
Directional c	ontrol	MAIN	TAIN usin

brake on good wheel as required

#### Landing With a Flat Nose Tire

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

#### 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 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

Master (ALT only)	OFF
ALT FIELD breaker	CHECK IN
Master (ALT and BAT)	ON
LOW VOLTS annunciator)	VERIFY OFF
M Bus volts VERIFY 27.	5V minimum
M Bat amps VERII	FY POSITIVE
If LOW VOLTS annunciator remains	
on:	
Reduce Electrical Load ch	necklist RUN

#### Reduce Electrical Load Avionics (BUS 1)

Pitot heat

Beacon, taxi, nav, strobe lights		OFF
Landing light	OFF (use as r	eq'd for
	1	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		TUNE

OFF

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

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 altimeter CHECK current barometric pressure SET. USE for altitude information

#### 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

Allifuliciator(s)		
Cabin heat	REDUCE (minimum	
	preferred)	
Forward avionics	CHECK (feel for	
fan	airflow from screen	
	on glareshield)	
If forward axionics for 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 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 heat	OFF (push full in)	
Cabin air	ON (pull full out)	
Cabin vents	OPEN	
Windows	OPEN (163 KIAS maximum	
	windows open speed)	
If 1: -1. CO 11		

f high CO level remains:

Land AS SOON AS PRACTICAL