

CAVOK Aviation Training Ltd.

# PIPER PA-34-200 Seneca I. and

# FNPT II MEP STANDARD OPERATIONAL PROCEDURES

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#### PIPER PA-34-200 Seneca I.

#### and

#### **FNPT II MEP STANDARD OPERATIONAL PROCEDURES**

Prepared by:

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Notes:

-These SOP's and Checklists were developed for

PIPER PA-34-200 Seneca I. and FNPT II MEP

training.

This SOP is written in accordance with the Piper PA34-200 Pilot's Operating Manual (POM) and CAVOK Aviation Training Ltd. IFR Procedures.

Approved aircraft manuals always take precedence over this training manual. -Take-off only with flaps 0 -Operation in IFR only approved on 1200 m paved runway or longer.

-Normal procedures shall be completed by memory as a "flow" followed by reading the appropriate normal checklist. Normal checklists can be found in laminated form on board. Additionally, AFTER TAKEOFF, APPROACH, LANDING normal checklists are placed on the instrument panel as well.

-During emergency situations non-normal checklists shall be completed when aircraft and flight path is under positive control and above minimum sector altitude. It is permissible to read non-normal checklists below MSA only when the aircraft is under radar vectors or PIC can maintain positive visual contact with the ground.

-When emergency situation requires imminent action pilots shall complete non- normal checklist by memory. These checklists are: ENGINE FAILURE (FEATHERING PROCEDURE), ENGINE FIRE, PROPELLER OVERSPEED.

Memory items regarding one-engine operation finish when affected engine's mixture is IDLE CUTOFF, aircraft is trimmed and 5 degrees bank toward operating engine is established.

-In the following procedure "CHECK" means item is checked according to the Pilot's Operating Manual.

-When "As required" is indicated in the checklist corresponding item or system status should be called out.

-Comply with the engine leaning procedure according to PA-34-200 POM



#### **CAVOK Operational Limitations**

Engine failure training :

Below 2500 ft AGL simulation of engine failure approved by a power reduction only. The allowed minimum altitude for engine failure training simulated by power reduction is 500 ft AAL.

Actual engine shutdown for training purposes allowed at or above 2500 ft AGL only. This exercise shall be carried out near a suitable aerodrome, so that a safe single engine landing can be carried out in case of an unsuccessful restart.

#### NORMAL PROCEDURES

#### **Preflight Procedures:**

Action		Call
-Weather	Check	
-NOTAMs	Check	
-Aircraft status	Check	
-Crew documents	Check	
-Flight plan	Create and file	
-Minimum Block fuel	Calculate	
-W and B	Check	
-ASDR, TODR, Decision point	Calculate	



### Walk-around inspection procedure:

Note: Before every first take-off a day or after crew change a walk-around inspection should be completed.

Action		Call
Entering the Cockpit:		
-Control lock (if installed)	Remove	
-Landing gear position	Down	
-Circuit breakers	Check in	
-Ignition switches (magnetos)	Off	
-Panel switches	Off	
-Alternators	Off	
-Instrument master switch and Avion	ics Off	
-Master switch	On	
-Landing gear lights	Check 3 greens	
-Fuel Quantity	Check	
-Cowl flaps	Open	
After completion of the items ab	ove:	
-Master switch	Off	
- Inrottles	Idle	
-Propeller controls	Forward	
-Mixture controls	Idle cut-off	
- Turbocharger control levers	Upandlock	
	Open	
-Flaps Check full	travel, then UP	
-Irims	Center	
-Flight controls	Check	
	Secure	
-Bags	Secure	
-Aircraft documents	Check	



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Action		Call
Outside Airplane:		
-Right wing, aileron and flap	Check	
-Right main gear	Check	
-Right wing tip	Check	
-Right leading edge	Check	
-Right fuel cup	Check and secure	
-Right engine nacelle	Check	
-Right propeller	Check	
-Cowl flap	Open and secure	
-Fuel drains	Drain	
-Nose section	Check	
-Nose gear	Check	
-Forward baggage door	Secure and lock	
-Windshield	Clean and secure	
-Left propeller	Check	
-Left engine nacelle	Check	
-Left fuel cup	Check	
-Left leading edge	Check	
-Left wing tip	Check	
-Left main gear	Check	
-Left wing, aileron and flap	Check	
-Pitot tube	Check	
-Stall warning vanes	Check	
-Rear door	Close	
-Left static vent	Check	
-Dorsal fin air scoop	Check	
-Empennage	Check	
-Stabilator	Check	
-Right static vent	Check	
-Antennas	Check	
-Nav and landing lights	Check	
		Walk around
		", wurk urburiu



# Engine start procedure:

Action		Call
Before engine start:		
-Parking brake	Set	
-Seats	Adjust	
-Seat belts	Fasten	
-Aircraft door	Close and secure	
-Avionics	Off	
-Alternate air (if installed)	Off	
-Alternators (Generators)	Off	
-Passenger emergency brie	fing Complete	
		"In case of evacuation I will
		announce <b>EVACUATE NOW</b> ,
		USE LEFT OR RIGHT DOORS.
		Passengers will be required to
		open the assigned door and
		leave the aircraft as quick as
		board In case of pilot
		incapacitation passengers may
		start evacuation without pilot's
		call"
-Before engine start checkli	ist Complete	"Before engine start checklist"
before engine start enceki	ist complete	Boforo ongino start shocklist
		"Dejore engine start thetklist
		complete
In case of at a Controlled A	Airport:	
-Master switch	On	
-COM Radios	On	
-Start-up clearance	Obtain	
-COM Radios	Off	
-Master switch	Off	



Action		Call	
Starting engines:			
-Parking brake	Checked Set		
-Master switch	On		
-Ignition switches	On		
-Electric fuel pumps	On		
(off if the motors are h	ot)		
-Throttle	Open ½ inch		
-Propellers	Full forward		
-Mixture controls	Idle cut-off		
-Anti-collision light	On		
-			
(If engines are cold, PRIME:			
-Electric fuel pump	On		
-Throttle	Full open		
-Mixture control	Move to rich		
position until 3-4 GPH fuel flow is	indicated and		
stabilized then move it late cut-ojj	)		
Throttlo	Opon 1/ inch		
Bropollor area clearance	Vorify	"Propeller Clear"	
Startar	France		
-Starter	Eligage		
-Mixture control Advance a	as engine starts	"Oil pressure checked"	
-OII pressure	ithin 20 coc		
Note: Oil pressure should come within 30 sec			
- Set RPM to	1000 - 1200		
-Alternator	1000 1200 On		
Alternator	on		
Repeat steps with the other engine After both			
engines are running on idle:			
-Fuel numps	Both off		
-Fuel selectors	Both X-feed		
-Fuel pressure	Check		
	Check		
-Attitude indicator	Set		
-Avionics	On and set		
-Alternators Check o	n check output		
-Clock	Sot		
-Navigation lights (at night only	v) On		
		"After start checklist"	
-After start checklist	Complete	"·····································	
	complete	"After start checklist complete"	
		"	



### **Before Taxi procedure:**

Before start to taxi:-Obtain WX information, QNH(Record ATIS, if applicable)-Altimeters (Both)Set	"Altimeters set and crosschecked"
-Obtain WX information, QNH (Record ATIS, if applicable) -Altimeters (Both) Set	"Altimeters set and crosschecked"
-Altimeters (Both) Set	"Altimeters set and crosschecked"
-Altimeters (Both) Set	"Altimeters set and crosschecked"
Note: Confirm planned take-off	
performance and decision point	
match present weather and	
runway status.	
-Departure emergency review: Perform	If I decide to abort the take-off I will call REJECT. If I reject <u>before rotation</u> , I will close power levers immediately and apply maximum breaking. If I reject <u>after rotation</u> , I will check landing gear down 3 greens, set full flaps and land straight ahead. Stop the aircraft and set the parking brake. I will announce evacuation if needed. <u>After decision point</u> I will call CONTINUE. Set full power, maintain rwy heading and accelerate to Vyse (105 MPH). (Vxse, 90MPH until obstacles are cleared) At 500 feet check feathering procedure is complete, verify flaps up. Retract the gear with positive rate of climb. Identify the malfunction and start memory items when positive climb and aircraft control is achieved. In case of VMCI will join visual pattern of rwy XX and land/ in IMC I will follow IFR escape route or ATC instructions for landing" "Departure emergency review complete"

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If ATC provides departure clearance		
during taxi:		
-Aircraft	Stop	
-Parking brake	Set	
-Departure clearance	Record	
-NAVAIDS Set, tune,	identify	
-Departure procedure	Review	"Departure review complete"
		Departure review complete
After taxi clearance received		
-Taxi light	On	
Note: During taxi the pilot should c	heck	
the following:		
-Operation of turn indicator, directional		
gyro and coordination ball instruments.		
-Heater and defroster		
-Rudder and Brakes		
-Trims		



# Before take-off procedure:

Action		Call
Run-Up check:		
Note: Verify local regulations and the area behind		
the aircraft and complete RUN-UP ch	eck before every	
first take-off a day or after crew cha	nge.	
Darking brake	Sot	
	Set	
-Fuel selectors	On	
-cowi haps	Open	
-Throttle S	et 1500 RPM	
Feathering Check (move propell	lercontrol	
fully back and then to the full forward	d position The	
RPM should drop to 1000 RPM in 1 - 3	seconds. Do not	
let RPM drop below 1000 RPM. Repec	at 2-3 times.)	
-Throttle	Set <u>2000 RPM</u>	
-Magnetos check (Normal drop -	- 100 RPM,	
maximum drop - 175 RPM, maximum	n differential drop	
- 50 RPM)		
-Mixture check (move mixture lever towards lean,		
check RPM/FF drop)		
-Alternate air On/Off (if installed), (there should be		
a drop in RPM when the control is placed in the "ON"		
position)		
-Throttle	Set <u>2200 RPM</u>	
Governor check (Retard prop cont	trol until a 200	
drop in RPM is indicated Repeat 3 tim	nes on the first	
fight of the day. Then adjust throttle	+/- 2 in.Hg. The	
propeller speed should stay the sam	e when the	
throttle is moved, showing that the	governor is	
governing)		



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-ThrottleSet 1000 RPMAlternator output – (check, approximately equal output for both alternators)suction check (Vacuum gauge - 4.5 to 5.2 in. A vacuum less than 4.5 indicates a low air flow through the gyro instruments, with possibly inaccurate readings)Fuel pressure check (Switch electric fuel pumps Off then On, fuel pressure should be in the normal operating range, 14-35 PSI)	
-Throttle Idle Power	
Repeat the run-up procedure for the other engine.	
Before Line-up:-Electric fuel pumpsOn-Check engine gaugesin green band-Propellersfull forward-Mixturefull forward-Mixturefull forward-Throttle quadrant frictionAdjust-Alternate air (if installed)Verify off-Cowl flapsOpen (or as required)-FlapsSet for TONote: Set Flaps 0 for IFR DeparturesTrimsTrimsSet for TO(6 units in SIM)-Fuel selectorsVerify On	
At holding point:	
Set parking rake.	"Before Takeoff checklist"
Complete before takeoff checklist.	"Before Takeoff checklist complete"



When line-up clearance recei	ved:
-Check TO and APP area	Clear
-Taxi light	Off
-Landing light	On
-Pitot heat	as required
Note: Set pitot heat on in icing condition	
-Transponder	On/Alt
-WX Radar (if installed)	On
-Line up, align with the rwy, chk HDG	
When Take-off clearance received:	
-Check time	



### Take-off procedure:

Action		Call
-Manual brake	Set	
-Set 2000 RPM, hold the brakes		
(On a very hot day, and if the motor is hot, presence of fuel vapor is possible in the fuel lines. Set higher RPM for a few seconds)		
-Check RPM and FF indications a	re stable	
-Release the brakes and start r	olling	
-TO power	Set	
Power levers full forward (A/C) (	SIM)	"Take-off power set"
Note: Right hand remains on po levers until decision point. Should handling become difficult it is allo use both hands during rotation u established in trimmed climb.	ower aircraft owed to ıntil	Snood alive"
-At speed indicator first moven	nent	"speed alive"
-85 MPH (76 KTS SIM)	Rotate	"Rotate"
90 MPH (76 KTS SIM)	Liftoff	
Rotate the aircraft and maintai 90 MPH. (76 KTS SIM). When decision point and reland not	in Vxse, passing possible:	"Reland not possible"
-Landing gear	UP	"Gear up, no lights"
Note: Select gear up with positive rate of climb and verify retraction		
On normal takeoff, gradually accelerate to (Vy, blue line spd): 105 MPH (89 KTS SIM)		
Note: Maintain the bestangle of clim 90 MPH at sea level (76 KTS SIM) if obs is necessary.	b speed Vx, tade dearance	



If clear of obstacles ar clearance is adequate, <u>At 500' AGL:</u>	id terrain	
-Flaps	1 notch UP (if not UP)	
-Climb power	Set	
24 inHG/2400 RPM	(34/2500 SIM)	
Mixture -Electric fuel pumps -Landing- and taxi lig	Check full forward Off hts Off	
-Cowl flaps	as required	
At 1000' AGL:		
-After take-off check	list Complete	"After take-off checklist"
-Accelerate to enrou applicable 120 MPH	te climb speed if (105 KTS SIM)	"After take-off checklist complete"
Above 1000' AGL		
Mixture Operating Manual 8-1	lean, I.A.W Pilots 1 (approx. 11 GPH FF)	
(SIM:due to simulator pressure decreases by	feature, lean until fuel 1 psi)	
Note: monitor cylind and EGT Note: do not lean mix (CAVOK limitation)	ler head temperature ture at or below 1000' AAL	
At Transition Altitude	<u>):</u>	



# Cruise procedure:

Action		Call
-Power	As required	
-COM 2	Monitor 121.5 Mhz	
Note: Normal	cruise power is	
21 inHg/2100 R	PM (30/2100 SIM),	
If cruising above 1	000' AAL, adjust	
manifold pressure	i.a.w. Power	
Setting Table, (PO	M 8-11, as	
necessary. (approx	к 8 GPH FF)	
Max.EGT1526°F (i	if EGT gauge installed) (SIM:	
due to simulator fe	eature, lean until fuel	
pressure decreases	s by maximum 1 psi) For	
maximum service	life, cylinder head	
temperature shou	ıld be maintained below	
435°F during high	performance cruise	
operation and bel	ow 400°F during economy	
cruise. Operate Co	owl Flaps as necessary.	



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### Cruise, Descent and Landing Procedure (VFR)

Action		Call
on <b>Downwind leg</b>		
-Monitor traffic, wind and down	wind hdg	
at Abeam Threshold:		
-El. Fuel Pumps	On	
-Landing gear	Down	
-Mixture	Rich	
-Cowl Flaps	Open	
-Fuel selectors	On	
after completing base turn:		
-Manifold pressure	13-15 inHg	
(SIM: limit throttle lever posi	tion to	
avoid LDG warning horn)		
-Flaps	set 10	
Note: max. speed for flaps 10		
extension is 160 MPH		
-Start descending, maintain 110 I	MPH with	
flaps 10		
Remark: Sometime during the approx	ach for a	
landing, the throttle controls should	be	
retarded to check the gear warning	horn	
After <b>completing final turn</b> :		
-Flaps	set 25	
Note: max. speed for flaps 25 140 MPH	extension is	
-Maintain 100 MPH on final. redu	uce speed	
to 95 MPH at approximately 300'	AAL	
-Prop. Levers	Full fwd	
Note: to avoid significant propeller nois	e, forwardina	
prop. levers can be delayed until short (	final	
-Landing Lights	On	
		"Landing Checklist#
-complete Landing Checklist		
		"Landina Checklist Complete"



### Cruise, Descent and Landing Procedure (VFR) cont'd

Action	Call
On short final:	
-Last check on gears Down, 3 greens -Reduce speed to 90 MPH for flare	"Gear Down 3 greens"
Remark:	
Reduce the speed in order to overfly the	
threshold with90MPH (90KTSSIM).Land	
withtwohands on the controls. Use gradual	
manual braking.	
Delay the flap retraction on the around	
until vacating the runway unless strong	
crosswind or gustu weather conditions	
exist or maximum braking required.	



### **Descent Procedure IFR:**

Action		Call
Approach preparation		
Note: Get WX and landing condition (I	Record	
ATIS if available) and plan the approach	before	
top of descent. Calculate landing perfor	mance.	
Set, tune, identify NAVAIDS during the		
preparation. It is permissible to continu	e the	
preparation during descent, but it mus	t be	
completed before starting the approac	ch at	
latest.		
Approach Review		
-review STAR Instrument approach, Misse	d	
approach and after landing procedure	Charle	
-Approach minimums (DA, MDA, RVR, VIS)	Check	
-G/A dillude Min. Safa Altituda	Check	
-Min. Sale Altitude	CHECK	
		"Approach Review Complete"
-Descent power 13-15 inHg/2100 RPM	Set	
(SIM: limit throttle lever position to a	void gear	
warning horn)	-	
Remark: Sometime during the approach for a	landing,	
the throttle controls should be retarded to		
check the gear warning horn		
-Mixture Enrich for smooth c	peration	
(EGT above 1300 °F, if EGT gauge instal	led) (SIM:	
set mixture lever full rich position)		
-Cowl Flaps	Set	
-Fuel Selectors	On	
-Seats and beits Set,	, fastened	
at Transition Level		
-Altimeters	Set ONH	"QNH xxxx, altimeters set and
		X-checked"
-When entering traffic pattern, reduce sc	beed to	
120 MPH (120 KTS SIM)		



### Approach procedure IFR:

Action		Call
When passing initial approace	<b>:h fix</b> , or on	
intercept heading, or on dov	wnwind leg:	
Cowl flaps	As required	
		"Approach Checklist"
-Complete Approach Checkli	ct	
		"Annroach Chacklist Complete"
2 NM before EAE or GS alive		Approach checkist complete
(latest 1 dot below GS or 1 N	M before FAF)	
-Electric fuel pumps	On	
-Landing lights	On	
-Landing gear	Down	
-Mixture	Rich	
-Alternate air (if installed)	Off	
-Cowl flaps	Open	
-Flaps	Set 10	
Note: max. speed for flaps 10 ext	ension is 160 MPH.	
Maintain 110 MPH (110 KTS SIM,	) withflaps 10	
extended		
-Fuel selectors	On	
Intercepting GS or descent p	or at FAF:	"Passing FAF/On Glideslope
-Descent power set	approx.15 inHg	xxxx feet checked"
-Start descending		
Note: At FAF or GS intercept verify a	listance and	
altitude		
At 4nm final OM or equival	ent nosition	"Passina OM. xxxx feet_checked"
Bropollors		
-Fropeners		
-riaps Note: may speed for flaps 25 avt	SEL 23	
Maintain 100 MPH (100 KTS SIM	) with flans 25	
extended		
Note: if flaps 40 is required by landing	performance, select	
Flaps40atpilot's discretion, when rw	yisinsightand	
landing is assured. Reduce the speed	in order to overfly	
the threshold with 90MPH, 87MPH	for short field	
iag.(90KTSSIM) IN IFK land WITh	jiups 25.	



# Approach procedure IFR (cont'd):

Passing 1000' AAL (Circling 3	00' AAL):	
-Landing checklist	Complete	"Landing Checklist" "Landing C/L complete"
Approaching minimum by	100 feet:	"Approaching minimum, Gear down 3 greens"
At minima:		"Landing/Go-around"



### Landingprocedure:

Action	Call
When visual at minima:	"Landing"
Reduce the speed in order to overfly the	
threshold with 90Mph (90 KTS SIM).	
Land with two hands on the controls.	
Use gradual manual braking. Delay the	
flap retraction on the ground until	
vacating the runway unless strong	
crosswind or gusty weather conditions	
exist or maximum braking required.	

### Taxi in procedure:

Action		Call
After vacating the runway:		
-Landing lights	Off	
-Taxi light	On	
-Electric fuel pumps	Off	
-Flaps	Up	
-Cowl flaps Check Fully	open	
-Transponder	Off	
-WX Radar (if installed)	STBY	

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#### Shut down procedure:

Action		Call
At stand:		
-Parking brake	Set	
-Avionics	Off	
-Mixture	Idle-cutoff	
-Alternators	Off	
-Magnetos	Off	
-Nav & strobe lights	Off	
-Avionics	Off	
-WX Radar (if installed)	Off	
-Master switch	Off	
-Shutdown checklist	Complete	"Shutdown Checklist" "Shutdown checklist complete"
		"onataown encekist complete



### Missed approach procedure:

In case of go-around:   -Go-around power Set   Full forward (A/C) (SIM)   -Propellers Check full forward   -Mixture Check rich   -Rotate (approx. 8-10°, 12°SIM, with approx. 3°/sec)   -Flaps 1 notch up   -Check Positive rate Gear Up   Note: Checkspeed is above VMC before flap retraction. Retract the gear with positive rate of climb.   Gradually accelerate to (Vy, blue line spd):   105 MPH (89 KTS SIM)   Note: Maintain the best angle of climb speed Vx, 90   MPH at sea level (76 KTS SIM) if obstade dearance is necessary.   If clear of obstacles and terrain clearance is adequate,   At 500'AGL:
-Go-around power Set   Full forward (A/C) (SIM)   -Propellers Check full forward   -Mixture Check rich   -Rotate (approx. 8-10°, 12°SIM, with approx. 3°/sec)   -Flaps 1 notch up   -Check Positive rate Gear Up   Note: Checkspeed is above VMC before flap retraction. Retract the gear with positive rate of climb. Gradually accelerate to (Vy, blue line spd):   105 MPH (89 KTS SIM)   Note: Maintain the best angle of climb speed Vx, 90   MPH at sea level (76 KTS SIM) if obstade dearance is necessary.   If clear of obstacles and terrain clearance is adequate,   At 500'AGL:
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<u>At 500' AGL</u> :
-Check speed Flaps up
(1 notch Up, if not Up)
-CIIIID DOWEI SEL 24inHg/2400 RPM (34/2500SIM)
-Electric fuel pumps Off
-Landing- and taxi lights Off
-Tune radios for go-around and
contact ATC.
At 1000' AGI
-Flans Verify flans are retracted
-After take-off checklist
-Accelerate to enroute climb speed, if "After TO Checklist Complete"
applicable 120 MPH (105 KTS SIM)