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# Simuflite

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## **General Information**

SimuFlite strongly supports the premise that the disciplined use of well-developed Standard Operating Procedures (SOP) is central to safe, professional aircraft operations, especially in multi-crew, complex, or high performance aircraft.

If your flight department has an SOP, we encourage you to use it during your training. If your flight department does not already have one, we welcome your use of the SimuFlite SOP.

Corporate pilots carefully developed this SOP. A product of their experience, it is the way SimuFlite conducts its flight operations.

The procedures described herein are specific to the Citation V and apply to specified phases of flight. The flight crew member designated for each step accomplishes it as indicated.

## **Definitions**

**LH/RH** – Pilot Station. Designation of seat position for accomplishing a given task because of proximity to the respective control/indicator. Regardless of PF or PNF role, the pilot in that seat performs tasks and responds to checklist challenges accordingly.

**PF** – Pilot Flying. The pilot responsible for controlling the flight of the aircraft.

**PIC** – Pilot-in-Command. The pilot responsible for the operation and safety of an aircraft during flight time.

**PNF** – Pilot Not Flying. The pilot who is not controlling the flight of the aircraft.

### **Flow Patterns**

Flow patterns are an integral part of the SOP. Accomplish the cockpit setup for each phase of flight with a flow pattern, then refer to the checklist to verify the setup. Use normal checklists as "done lists" instead of "do lists."

Flow patterns are disciplined procedures; they require pilots who understand the aircraft systems/controls and who methodically accomplish the flow pattern.

A standardized flow pattern for the cockpit setup before starting engines appears in the Preflight section.

## Checklists

Use a challenge-response method to execute any checklist. After the PF initiates the checklist, the PNF challenges by reading the checklist item aloud. The PF is responsible for verifying that the items designated as PF or his seat position (i.e., LH or RH) are accomplished and for responding orally to the challenge. Items designated on the checklist as PNF or by his seat position are the PNF's responsibility. The PNF confirms the accomplishment of the item, then responds orally to his own challenge. In all cases, the response by either pilot is confirmed by the other and any disagreement is resolved prior to continuing the checklist.

After completion of any checklist, the PNF states "\_\_\_\_ checklist is complete." This allows the PF to maintain situational awareness during checklist phases and prompts the PF to continue to the next checklist, if required.

Effective checklists are pertinent and concise. Use them the way they are written: verbatim, smartly, and professionally.

#### **Omission of Checklists**

While the PF is responsible for initiating checklists, the PNF should ask the PF whether a checklist should be started if, in his opinion, a checklist is overlooked. As an expression of good crew resource management, such prompting is appropriate for any flight situation: training, operations, or checkrides.

### Challenge/No Response

If the PNF observes and challenges a flight deviation or critical situation, the PF should respond immediately. If the PF does not respond by oral communication or action, the PNF must issue a second challenge that is loud and clear. If the PF does not respond after the second challenge, the PNF must ensure the safety of the aircraft. The PNF must announce that he is assuming control and then take the necessary actions to return the aircraft to a safe operating envelope.

# **Abnormal/Emergency Procedures**

When any crewmember recognizes an abnormal or emergency condition, the PIC designates who controls the aircraft, who performs the tasks, and any items to be monitored. Following these designations, the PIC calls for the appropriate checklist. The crewmember designated on the checklist accomplishes the checklist items with the appropriate challenge/response.

**NOTE**: "Control" means responsible for flight control of the aircraft, whether manual or automatic.

The pilot designated to fly the aircraft (i.e., PF) does not perform tasks that compromise this primary responsibility, regardless of whether he uses the autopilot or flies manually.



Both pilots must be able to respond to an emergency situation that requires immediate corrective action without reference to a checklist. The elements of an emergency procedure that must be performed without reference to the appropriate checklist are called memory or recall items. Accomplish all other abnormal and emergency procedures while referring to the printed checklist.

Accomplishing abnormal and emergency checklists differs from accomplishing normal procedure checklists in that the pilot reading the checklist states both the challenge and the response when challenging each item.

When a checklist procedure calls for the movement or manipulation of controls or switches critical to safety of flight (e.g., throttles, engine fire switches, fire bottle discharge switches), the pilot performing the action obtains verification from the other pilot that he is moving the correct control or switch prior to initiating the action.

Any checklist action pertaining to a specific control, switch, or equipment that is duplicated in the cockpit is read to include its relative position and the action required (e.g., "Left Throttle – OFF; Left Boost Pump – NORMAL").

#### **Time Critical Situations**

When the aircraft, passengers, and/or crew are in jeopardy, remember three things.

- FLY THE AIRCRAFT Maintain aircraft control.
- RECOGNIZE CHALLENGE Analyze the situation.
- RESPOND Take appropriate action.

## **Rejected Takeoffs**

The rejected takeoff (abort) procedure is a preplanned maneuver; both crewmembers must be aware of and briefed on the types of malfunctions that mandate an abort. Assuming the crew trains to a firmly established SOP, either crewmember may call for an abort. The PF normally commands and executes the takeoff abort for directional control problems or catastrophic malfunctions. Additionally, any indication of the following malfunctions prior to V<sub>1</sub> is cause for an abort:

- engine failure
- engine fire
- thrust reverser deployment
- loss of directional control.

In addition to the above, the PF usually executes an abort prior to 70 KIAS for any abnormality observed.

When the PNF calls an abort, the PF announces "Abort." or "Continue." and executes the appropriate procedure.

## **Critical Malfunctions in Flight**

In flight, the observing crewmember positively announces a malfunction. As time permits, the other crewmember makes every effort to confirm/identify the malfunction before initiating any emergency action.

If the PNF is the first to observe any indication of a critical failure, he announces it and simultaneously identifies the malfunction to the PF by pointing to the indicator/annunciator.

After verifying the malfunction, the PF announces his decision and commands accomplishment of any checklist memory items. The PF monitors the PNF during the accomplishment of those tasks assigned to him.

## Non-Critical Malfunctions in Flight

Procedures for recognizing and verifying a non-critical malfunction or impending malfunction are the same as those used for time critical situations: use positive oral and graphic communication to identify and direct the proper response. Time, however, is not as critical and allows a more deliberate response to the malfunction. Always use the appropriate checklist to accomplish the corrective action.

# **Radio Tuning and Communication**

The PNF accomplishes navigation and communication radio tuning, identification, and ground communication. For navigation radios, the PNF tunes and identifies all navigation aids. Before tuning the PF's radios, he announces the NAVAID to be set. In tuning the primary NAVAID, the PNF coordinates with the PF to ensure proper selection sequencing with the autopilot mode. After tuning and identifying the PF's NAVAID, the PNF announces "(Facility) tuned and identified."

Monitor NDB audio output anytime the NDB is in use as the NAVAID. Use the marker beacon audio as backup to visual annunciation for marker passage confirmation.

In tuning the VHF radios for ATC communication, the PNF places the newly assigned frequency in the head not in use (i.e., preselected) at the time of receipt. After contact on the new frequency, the PNF retains the previously assigned frequency for a reasonable time period.

# **Pre-Departure Briefings**

The PIC should conduct a pre-departure briefing prior to each flight to address potential problems, weather delays, safety considerations, and operational issues. Pre-departure briefings should include all crewmembers to enhance team-building and set the tone for the flight. The briefing may be formal or informal, but should include some standard items. The acronym AWARE works well to ensure no points are missed. This is also an opportunity to brief any takeoff or departure deviations from the SOP due to weather or runway conditions.

NOTE: The acronym AWARE stands for the following.

- Aircraft status
- Weather
- Airport information
- Route of flight
- Extra

## **Altitude Assignment**

The PNF sets the assigned altitude in the altitude alerter and points to the alerter while orally repeating the altitude. The PNF continues to point to the altitude alerter until the PF confirms the altitude assignment and alerter setting.

# Advising of Aircraft Configuration Change

If the PF is about to make an aircraft control or configuration change, he alerts the PNF to the forthcoming change (e.g., gear, speedbrake, and flap selections). If time permits, he also announces any abrupt flight path changes so there is always mutual understanding of the intended flight path.

Time permitting, a PA announcement to the passengers precedes maneuvers involving unusual deck or roll angles.

# Transitioning from Instrument to Visual Conditions

If visual meteorological conditions (VMC) are encountered during an instrument approach, the PNF normally continues to make callouts for the instrument approach being conducted. However, the PF may request a changeover to visual traffic pattern callouts.

# SimuFlite

# Phase of Flight SOP Holding Short

PF

**PNF** 

CALL "Before Takeoff checklist."

ACTION Complete Before Takeoff checklist.

CALL "Before Takeoff checklist complete."

#### **Takeoff Briefing**

#### **ACTION** Brief the following:

- initial heading/ course
- initial altitude
- airspeed limit (if applicable)
- clearance limit
- emergency return plan
- SOP deviations.

#### Consider the following:

- impaired runway conditions
- weather
- obstacle clearance
- SIDS.

#### **Cleared for Takeoff**

CALL "Takeoff checklist."

**ACTION** Complete Takeoff checklist.

**CALL** "Takeoff checklist complete."

## **Takeoff Roll**

PF	PNF
Setting Takeoff Power	
<b>CALL</b> "Set"	<b>CALL</b> " set."
Initial Airspeed Indication	
	CALL "Airspeed alive." At 70 KIAS,
	CALL "70 kts crosscheck."
At V <sub>1</sub>	
ACTION Move hand from throttles to yoke.	CALL "V <sub>1</sub> ."
At V <sub>R</sub>	
ACTION Poteto to	CALL "Rotate."

approximately 12° to 15° pitch attitude for takeoff.

## Climb

PF

**PNF** 

#### At Positive Rate of Climb

CALL "Positive rate."

Only after PNF's call, CALL "Gear up."

CALL "Gear selected up."

When gear indicates up,

"Gear indicates up."

#### **After Gear Retraction**

ACTION Immediately accomplish attitude correlation check.

- PF's and PNF's ADI displays agree.
- Pitch and bank angles are acceptable.

CALL "Attitudes check."

Or, if a fault exists, give a concise statement of the discrepancy.

#### At V<sub>2</sub> + 10 KIAS and 400 Ft Above Airport Surface (Minimum)

**CALL** "V<sub>2</sub> + 10 KIAS."

CALL "Flaps up."

CALL "Flaps selected UP."

When indicator indicates UP, "Flaps indicate UP."



# Climb (continued)

PF

**PNF** 

#### At V<sub>ENR</sub> (Minimum)

CALL "Climb power."

CALL "Climb power set."

# At 1,500 Ft (Minimum) Above Airport Surface and Workload Permitting

CALL "Climb checklist."

ACTION Complete Climb checklist.

**CALL** "Climb checklist complete.

#### At Transition Altitude

CALL "29.92 set."

Transition Altitude checklist."

CALL "29.92 set."

ACTION Complete Transition
Altitude checklist.

CALL "Transition Altitude checklist complete."

#### At 1,000 Ft Below Assigned Altitude

CALL "\_\_\_\_ (altitude) for \_\_\_\_ (altitude)." (e.g., "9,000 for 10,000.")

CALL "\_\_\_\_ (altitude) for \_\_\_\_ (altitude)." (e.g., "9,000 for 10,000.")

## Cruise

PF

PNF

CALL "Cruise checklist."

ACTION Complete Cruise checklist.

**CALL** "Cruise checklist complete."

**Altitude Deviation in Excess of 100 Ft** 

CALL "Altitude."

CALL "Correcting."

Course Deviation in Excess of One Half Dot

CALL "Course."

CALL "Correcting."

## **Descent**

PF

**PNF** 

CALL "Descent checklist."

ACTION Complete Descent checklist.

**CALL** "Descent checklist complete."

### At 1,000 Ft Above Assigned Altitude

CALL "\_\_\_\_ (altitude) for \_\_\_\_ (altitude)." (e.g., "10,000 for 9.000.")

CALL "\_\_\_\_ (altitude) for \_\_\_\_ (altitude)." (e.g., "10,000 for 9,000.")

#### At Transition Level

CALL "Altimeter set \_\_\_\_ Transition Level checklist." CALL "Altimeter set \_\_\_\_ ."

ACTION Complete Transition Level checklist.

CALL "Transition Level checklist complete."

### At 10,000 Ft

CALL "10,000 ft."

CALL "Check. Speed 250 kts."

Maintain sterile cockpit below 10,000 ft above airport surface.

## **Descent (continued)**

PF

**PNF** 

#### At Appropriate Workload Time

#### REVIEW

#### **REVIEW**

#### Review the following:

- approach to be executed
- field elevation
- appropriate minimum sector altitude(s)
- inbound leg to FAF, procedure turn direction and altitude
- final approach course heading and intercept altitude
- timing required
- DA/MDA
- MAP (non-precision)
- VDP
- special procedures (DME step-down, arc, etc.)
- type of approach lights in use (and radio keying procedures, if required)
- missed approach procedures
- runway information and conditions.

#### **ACTION** Brief the following:

- configuration
- approach speed
- minimum safe altitude
- approach course
- FAF altitude
- DA/MDA altitude
- field elevation
- VDP
- missed approach
  - heading
  - altitude
  - intentions
- abnormal implications.

Accomplish as many checklist items as possible. The Approach checklist must be completed prior to the initial approach fix.

# **Precision Approach**

PF

**PNF** 

### **Prior to Initial Approach Fix**

CALL "Approach checklist."

**ACTION** Complete Approach checklist.

**CALL** "Approach checklist complete."

#### After Level-Off on Intermediate Approach Segment

CALL "Flaps APPROACH."

CALL "Flaps selected APPROACH."

When flaps indicate APPROACH "Flaps indicate APPROACH."

## At Initial Convergence of Course Deviation Bar

CALL "Localizer/course alive."

CALL "Localizer/course alive."

## At Initial Downward Movement of Glideslope Raw Data Indicator

CALL "Glideslope alive."

CALL "Glideslope alive."

#### When Annunciators Indicate Localizer Capture

CALL "Localizer captured."

CALL "Localizer captured."

PF

**PNF** 

#### At One Dot From Glideslope Intercept

CALL "One dot to go."

CALL "Gear down.

Before Landing checklist."

CALL "Gear selected down."

When gear indicates down,

"Gear indicates down."

ACTION Complete Before
Landing checklist
except for full flaps
and autopilot/
vaw damper.

#### When Annunciator Indicates Glideslope Capture

CALL "Glideslope captured."

CALL "Glideslope captured."

CALL "Flaps LAND."

CALL "Flaps selected LAND."

When flaps indicate LAND, "Flaps indicate LAND."

If the VOR on the PNF's side is used for crosschecks on the intermediate segment, the PNF's localizer and glideslope status calls are accomplished at the time the PNF changes to the ILS frequency. This should be no later than at completion of the FAF crosscheck, if required. The PNF should tune and identify his NAV radios to the specific approach and monitor.

PF

**PNF** 

#### At FAF

CALL "Outer marker." or "Final fix."

- **ACTION** Start timing.
  - Visually crosscheck that both altimeters agree with crossing altitude.
  - Set missed approach altitude in altitude alerter.
  - Check PF and PNF instruments.
  - Call FAF inbound.

CALL "Outer marker." or "Final fix." "Altitude checks."

### At 1,000 Ft Above DA (H)

CALL "Check."

CALL "1,000 ft to minimums."

PF

**PNF** 

#### At 500 Ft Above DA(H)

CALL "500 ft to minimums."

CALL "Check."

**NOTE:** An approach window has the following parameters:

- within one dot deflection, both LOC and GS
- IVSI less than 1,000 fpm
- IAS within V<sub>AP</sub> ±10 kts (no less than V<sub>REF</sub> or 0.6 AOA, whichever is less)
- no flight instrument flags with the landing runway or visual references not in sight
- landing configuration, except for full flaps (non-precision or single engine approaches).

When within 500 ft above touchdown, the aircraft must be within the approach window. If the aircraft is not within this window, a missed approach must be executed.

#### At 200 Ft Above DA(H)

CALL "200 ft to minimums."

CALL "Check."

At 100 Ft Above DA(H)

CALL "100 ft to minimums."

CALL "Check."

PF

**PNF** 

## At Point Where PNF Sights Runway or Visual References

**CALL** "Going visual. Land," or "Missed approach."

CALL "Runway (or visual reference)
\_\_\_\_ o'clock."

ACTION As PF goes visual, PNF transitions to instruments.

#### At DA(H)

ACTION Announce intentions.

CALL "Going visual. Land." or "Missed approach."

CALL "Minimums. Runway (or visual reference) \_\_\_\_ o'clock."

ACTION As PF goes visual, PNF transitions to instruments.

# **Precision Missed Approach**

PF

**PNF** 

At DA(H)

CALL "Minimums Missed approach."

CALL "Missed approach."

**ACTION** Apply power firmly and positively. Activate go-around mode and initially rotate the nose to the flight director go-around attitude.

**CALL** "Flaps APPROACH."

**ACTION** Assist PF in setting power for go-around.

CALL "Flaps selected APPROACH."

> When flaps indicate APPROACH, "Flaps indicate APPROACH."

#### At Positive Rate of Climb

CALL "Gear up."

CALL "Positive rate."

**CALL** "Gear selected up. When gear indicates

"Gear indicates up."

**ACTION** Announce heading and altitude for missed approach.

# **Precision Approach Deviations**

PF		PNF
± One Half Dot ñ Glides	slope	
CALL "Correcting."	CALL	"One half dot (high, low) and (increasing, holding, decreasing)."
± One Half Dot ñ Locali	zer	
	CALL	"One half dot (right, left) and (increasing, holding, decreasing)."
CALL "Correcting."		
VAP ±		
CALL "Correcting."	CALL	"Speed (plus or minus) (knots) and (increasing, holding, decreasing)."
At or Below V <sub>REF</sub>		
CALL "Correcting."	CALL	"VREF." or "VREF minus (knots below VREF)."
Rate of Descent Excee	ds 1,000 FPM	
CALL "Correcting."	CALL	"Sink (amount) hundred and (increasing, holding, decreasing)."
2C-24	For training only	Citation V

## **Non-Precision Approach**

PF

**PNF** 

#### **Prior to Initial Approach Fix**

CALL "Approach checklist."

**ACTION** Complete Approach checklist.

**CALL** "Approach checklist complete."

#### After Level-Off on Intermediate Approach Segment

CALL "Flaps APPROACH."

CALL "Flaps selected APPROACH."

When flaps indicate APPROACH, "Flaps indicate APPROACH."

### At Initial Convergence of Course Deviation Bar

CALL "Localizer/course alive."

CALL "Localizer/course alive."

#### **When Annunciators Indicate Course Capture**

**CALL** "Localizer/course captured."

CALL "Localizer/course captured."

**PNF** PF Prior to FAF \_\_\_\_ (number) CALL " miles/minutes from FAF." CALL "Gear down. Before Landing checklist." CALL "Gear selected down." When gear indicates down, "Gear indicates down." **ACTION** Complete Before Landing checklist except for full flaps and autopilot/yaw damper.

PF PNF

#### At FAF

CALL "Outer marker." or "Final fix." CALL "Outer marker." or "Final fix." "Altimeters check."

**ACTION** • Start timing.

- Visually crosscheck that both altimeters agree.
- Set MDA (or nearest 100 ft above) in altitude alerter.
- Check PF and PNF instruments.
- Call FAF inbound.

### At 1,000 Ft Above MDA

CALL "Check."

CALL "1,000 ft to minimums."



PE

**PNF** 

#### At 500 Ft Above MDA

CALL "500 ft to minimums."

CALL "Check."

NOTE: An approach window has the following parameters:

- within one dot CDI deflection or 5° bearing
- IVSI less than 1,000 fpm
- IAS within V<sub>AP</sub> ±10 kts (no less than V<sub>REF</sub> or 0.6 AOA, whichever is less)
- no flight instrument flags with the landing runway or visual references not in sight
- landing configuration, except for full flaps.

When within 500 ft above touchdown, the aircraft must be within the approach window. If the aircraft is not within this window, a missed approach must be executed.

#### At 200 Ft Above MDA

CALL "200 ft to minimums."

CALL "Check."

At 100 Ft Above MDA

CALL "100 ft to minimums."

CALL "Check."

At MDA

CALL "Minimums. \_\_\_\_ (time) to go." or "Minimums. \_\_\_ (distance) to go."

CALL "Check."

PF

**PNF** 

#### At Point Where PNF Sights Runway or Visual References

CALL "Runway (or visual reference)
\_\_\_\_\_ o'clock."

CALL "Going visual. Land. or "Missed approach."

When leaving MDA, CALL "Flaps LAND."

CALL "Flaps selected LAND."

When flaps indicate LAND,
"Flaps indicate LAND."

# **Non-Precision Missed Approach**

PF

**PNF** 

At MAP

CALL "Missed approach point. Missed approach."

CALL "Missed approach."

ACTION Apply power firmly and positively.
Activate go-around mode and initially rotate the nose to the flight director go-around attitude.

CALL "Flaps APPROACH."

**ACTION** Assist PF in setting power for go-around.

CALL "Flaps selected APPROACH."

When flaps indicate APPROACH, "Flaps indicate APPROACH."

#### At Positive Rate of Climb

CALL "Positive rate."

CALL "Gear up."

CALL "Gear selected up."

When gear indicates up,

"Coor indicates up."

"Gear indicates up."

ACTION Announce heading and altitude for missed approach.

PF

**PNF** 

At VREF +10 and 400 Ft Above Airport Surface (Minimum)

CALL "Flaps UP."

CALL "Flaps selected UP."

When flaps indicate UP, "Flaps indicate UP."

At 1,500 Ft (Minimum) Above Airport Surface and Workload Permitting

CALL "Climb checklist."

**ACTION** Complete Climb checklist.

**CALL** "Climb checklist complete."

# **Non-Precision Approach Deviations**

PF	Fig. Water	PNF		
± One Dot ñ Localizer/V	OR .			
CALL "Correcting."	CALL	"One dot (right, left) and (increasing, holding, decreasing)."		
± 5 At or Beyond Midp	oint for NDB Appro	pach		
CALL "Correcting."	CALL	" (degrees off course) (right, left) and (increasing, holding, decreasing).		
VAP ±				
CALL "Correcting."	CALL	"Speed (plus or minus) (knots) and (increasing, holding, decreasing)."		
At or Below V <sub>REF</sub>				
	CALL	"VREF." or "VREF minus(knots below VREF)."		
CALL "Correcting."				
Rate of Descent Exceeds 1,000 FPM				
	CALL	"Sink (amount) hundred and (increasing, holding, decreasing)."		
CALL "Correcting."				
2C-32	For training only	Citation V		

## **Visual Traffic Patterns**

PF

**PNF** 

#### Before Pattern Entry/Downwind (1,500 Ft Above Airport Surface)

CALL "Approach checklist."

**ACTION** Complete Approach checklist.

**CALL** "Approach checklist complete."

#### **Downwind**

CALL "Flaps APPROACH."

CALL "Flaps selected APPROACH."

When flaps indicate APPROACH "Flaps indicate APPROACH."

CALL "Gear down. Before Landing checklist."

CALL "Gear selected down."

When gear indicates down, "Gear indicates down."

ACTION Complete Before Landing checklist except for full flaps and yaw damper.



# **Visual Traffic Patterns (continued)**

PF

PNF

At 1,000 Ft Above Airport Surface

CALL "1,000 AGL."

CALL "Check."

At 500 Ft Above Airport Surface

**CALL** "500 AGL."

CALL "Check."

At 200 Ft Above Airport Surface

CALL "200 AGL."

CALL "Check."

## Landing

PF

**PNF** 

#### At Point on Approach When PF Sights Runway or **Visual Reference (Landing Assured)**

CALL "Going visual, Land. Flaps LAND."

> CALL "Flaps selected I AND "

> > When flaps indicate LAND. "Flaps indicate

LAND."

**ACTION** Push autopilot and trim disconnect switch.

CALL "Autopilot/yaw

damper off."

**ACTION** Continue with:

speed check

vertical speed check

callouts

gear down verification

flap verification.

CALL "Final gear and flaps recheck." "Before Landing checklist complete."

At 100 Ft Above Touchdown

CALL "100 ft."

At 50 Ft Above Touchdown

CALL "50 ft."

At Touchdown

CALL "Extend speedbrakes."

**ACTION** Extend speedbrakes.

**CALL** "Speedbrakes extended."

# **Landing (continued)**

PF

PNF

**As Thrust Reversers Deployment** 

CALL "Six lights."

At Thrust Reverser Idle Speed (60 KIAS)

CALL "60 kts."