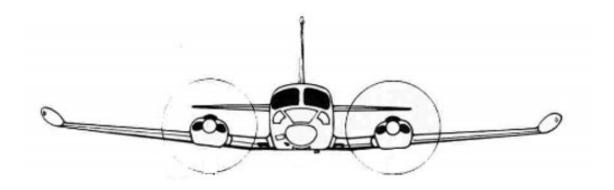


Webinar will begin shortly...





Let Yourself Down Easy:

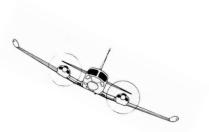
Low-Workload Approaches and Landings

Thomas P. Turner



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MASTERY FLIGHT TRAINING

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FLYING LESSON'S Weekly





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Spherically speaking; Fly-by-night airline stories; Avionics questions

Compliance fatigue; There and back in time: LESSONS from recollection

MASTERY OF FLIGHT





FLYING LESSONS uses recent mishap reports to consider what might have contributed to accidents, so you can make better decisions if you face similar circumstances. In almost all cases design characteristics of a specific airplane have little direct bearing on the possible causes of aircraft accidents—but knowing how your airplane's systems respond can make the difference as a scenario unfolds. So apply these FLYING LESSONS to the specific airplane you fly. Verify all technical information before applying it to your aircraft or operation, with manufacturers' data and recommendations taking precedence. You are pilot in command, and are ultimately responsible for the decisions you make.

Read FLYING LESSONS for May 28, 2020 (downloadable pdf)

- > Going through a phase
- > Listen to the airplane
- > Those in peril in the air

FLYING LESSONS special:

Notes and commentary on Wolfgang Langewiesche's classic Stick and Rudder,

Chapters 1 and 2 Chapter 3 Chapter 4 notes

Chapter 5 notes Chapter 6 notes Chapter 7 notes Chapter 8 notes

Chapter 9 notes Chapter 10 notes Chapter 11 notes

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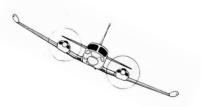
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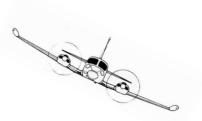


CLICK HERE TO GO TO THE ABS ONLINE LEARNING CENTER



Reducing Workload for Approaches and Landings

- Descent
- Creating your custom Approach checklist
- Altitude, Distance, Missed
- On the missed
- Balked landing
- After landing



Descent Checklist



DESCENT

- Fuel Selectors Left Engine LEFT MAIN (Feel For Detent).
 Right Engine RIGHT MAIN (Feel For Detent).
- Auxiliary Fuel Pumps ON.
- 3. Power AS REQUIRED to maintain engine temperatures in the green.
- Cabin Pressurization SET (Optional System).
 - a. Cabin Altitude SET SLOWLY. During the initial portion of the letdown, set the cabin altitude control to field pressure altitude plus 500 feet (outer scale) (Optional System).
 - b. Cabin Rate Control SÉT to reach selected cabin altitude (zero cabin pressure) at approximately the same time the airplane reaches field pressure altitude plus 500 feet (Optional System).

NOTE-

Maintain sufficient power for pressurization requirements (manifold pressure in the green arc).

- Mixtures ADJUST for smooth operation with gradual enrichment as altitude is lost.
- 6. Cowl Flaps CLOSED.
- Propeller Synchrophaser AS REQUIRED.
- Altimeter SET.

Before Descent Checklist

DESCENT

- Fuel Selectors Left Engine LEFT MAIN (Feel For Detent). Right Engine - RIGHT MAIN (Feel For Detent).
- Auxiliary Fuel Pumps ON.
- Power AS REQUIRED to maintain engine temperatures in the green. Cabin Pressurization SET (Optional System).
- - a. Cabin Altitude SET SLOWLY. During the initial portion of the letdown, set the cabin altitude control to field pressure altitude plus 500 feet (outer scale) (Optional System).
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- Mixtures ADJUST for smooth operation with gradual enrichment as altitude is lost.
- Cow) Flaps CLOSED.
- Propeller Synchrophaser AS REQUIRED.
- Altimeter SET.



Descent Checklists



DESCENT

- 1. Power AS REQUIRED
- 2. Mixtures AS REQUIRED



BEFORE DESCENT

- 1. Fuel selectors MAINS
- 2. Auxiliary Fuel Pumps ON
- 3. Cabin Pressurization SET
- 4. Cowl Flaps CLOSED
- 5. Propeller Synchrophaser AS REQUIRED
- 6. Altimeter SET

Descent Checklists

Transition Altitude





PASSING FL180

1. Altimeter - SET

DESCENT

- 1. Power AS REQUIRED
- 2. Mixtures AS REQUIRED



BEFORE DESCENT

- 1. Fuel selectors MAINS
- 2. Auxiliary Fuel Pumps ON
- 3. Cabin Pressurization SET
- 4. Cowl Flaps CLOSED
- 5. Propeller Synchrophaser AS REQUIRED

Before Landing



BEFORE LANDING

- Seat Belts and Shoulder Harness SECURE.
 - Propeller Synchrophaser OFF.
 - Alternate Air Controls CHECK IN.
 - 4. Wing Flaps DUWN 15 Delow 160 KIAS.
 - Landing Gear DOWN below 140 KIAS.
 - Landing Gear Position Indicator Lights Check down lights ON Unlocked Light - OFF.
 - 7. Mixtures FULL RICH or lean as required for smooth operation.
- 8. Propellers FULL FORWARD.
- 9. Cabin Differential Pressure ZERO DIFFERENTIAL.
- 10. Wing Flaps DOWN 45° below 140 KIAS.
- Minimum Multi-Engine Approach Speed 94 KIAS at 5990 pounds. Refer to Section 5 for speeds at reduced weights.

Descent and Landing Checklists





APPROACH

- 1. Power AS REQUIRED
- 2. Mixtures AS REQUIRED
- 3. Propeller Synchrophasers OFF
- 4. Flaps 15° BELOW 160 KTS
- 5. Cabin Differential Pressure ZERO DIFFERENTIAL

BEFORE DESCENT

- Seat Belts and Shoulder Harnesses – SECURE
- 2. Alternate Air Controls IN
- 3. Auxiliary Fuel Pumps ON
- 4. Cabin Pressurization SET
- 5. Cowl Flaps CLOSED
- Propeller Synchrophaser AS REQUIRED
- 7. Altimeter SET

Approach and Landing Checklists



BEFORE LANDING

- 1. Landing Gear DOWN
- 2. Flaps FULL
- 3. Propellers FULL FORWARD
- 4. Mixture AS REQUIRED
- 5. Yaw Damper OFF



APPROACH

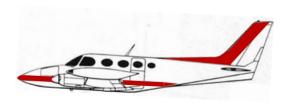
- 1. Power AS REQUIRED
- 2. Mixtures AS REQUIRED
- 3. Propeller Synchrophasers OFF
- 4. Flaps 15° BELOW 160 KTS
- 5. Cabin Differential Pressure ZERO DIFFERENTIAL

Approach Checklists



APPROACH 1

- 1. Approach BRIEFED
- 2. Avionics SET
- 3. Approach LOADED
- 4. Lights ON AS DESIRED



APPROACH 2

- 1. Approach ACTIVATED
- 2. Approach Mode AS REQUIRED
- 3. Power AS REQUIRED
- 4. Mixtures AS REQUIRED
- 5. Propeller Synchrophasers OFF
- 6. Flaps 15° BELOW 160 KTS
- 7. Cabin Differential Pressure ZERO DIFFERENTIAL

Distributed Checklist Steps



BEFORE DESCENT











APPROACH



AFM Checklist Steps

DESCENT

8 🛨 4

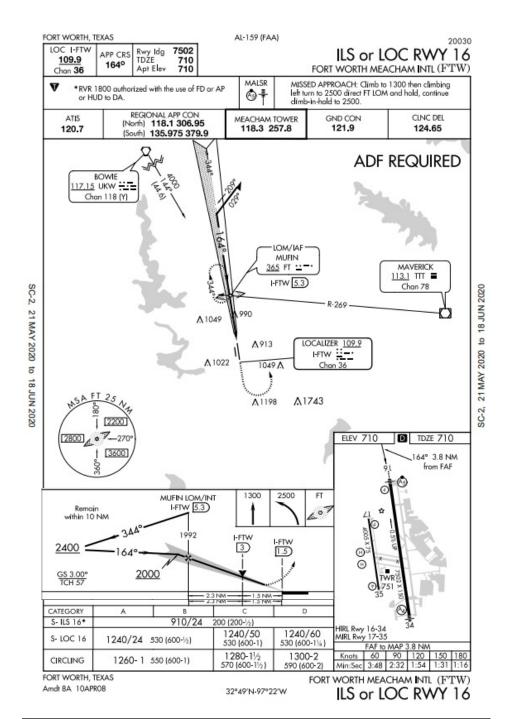
Distributed Checklist Steps

APPROACH 1 Checklist Steps



BEFORE LANDING





FORT WORTH, TEXAS AL-159 (FAA) ILS or LOC RWY 16 TDZE 710 Apt Elev 710 109.9 164° FORT WORTH MEACHAM INTL (FTW) Chan 36 MALSR MISSED APPROACH: Climb to 1300 then climbing left turn to 2500 direct FT LOM and hold, continue *RVR 1800 authorized with the use of FD or AP @ # or HUD to DA.

MEACHAM TOWER

118.3 257.8

GND CON

121.9

CLNC DEL

124.65

113.1 TIT =

Chan 78

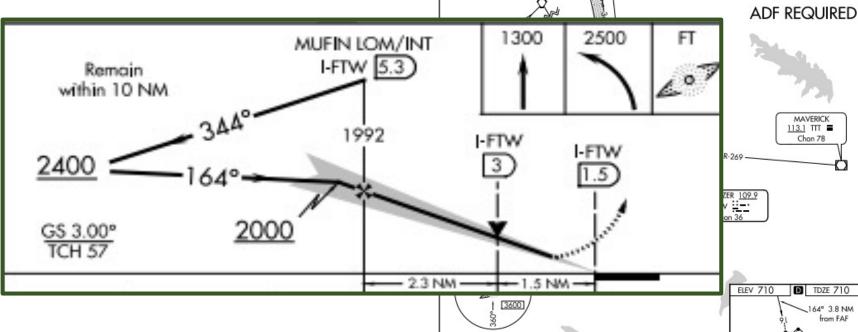
REGIONAL APP CON

(South) 135.975 379.9

(North) 118.1 306.95

ATIS

120.7



Altitude Distance/Decision Missed

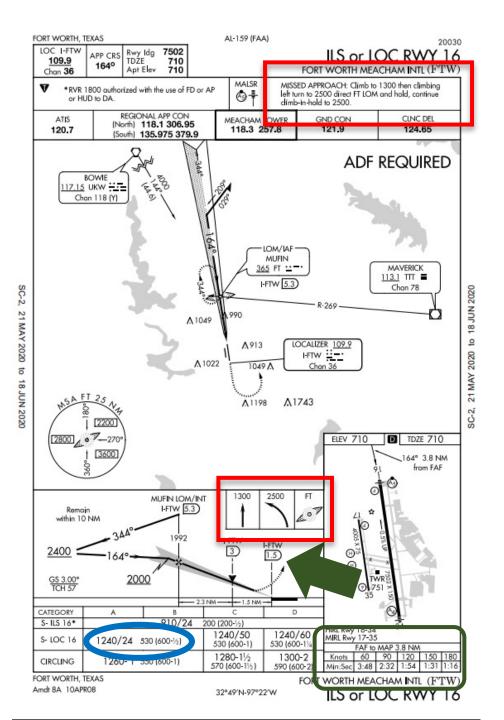
ELEV 710 D TDZE 710 164° 3.8 NM from FAF 2500 MUFIN LOM/INT I-FTW [5.3] Remain within 10 NM 2000 GS 3.00° TCH 57 CATEGORY S- ILS 16* 910/24 200 (200-1/2) HIRL Rwy 16-34 MIRL Rwy 17-35 1240/50 1240/60 S- LOC 16 1240/24 530 (600-1/1) 530 (600-1) 530 (600-1%) FAF to MAP 3.8 NM
Knots 60 90 120 150 180
Min:Sec 3:48 2:32 1:54 1:31 1:16 1280-11/2 1300-2 1260-1 550 (600-1) CIRCLING 570 (600-11/2) 590 (600-2)

32°49'N-97°22'W

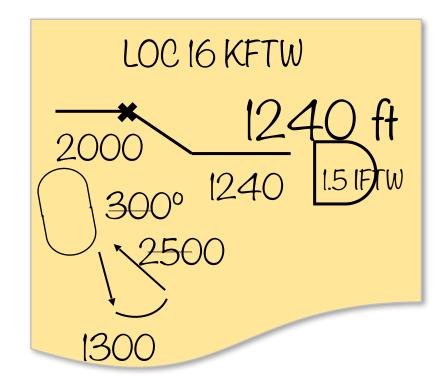
FORT WORTH, TEXAS Amdt 8A 10APR08

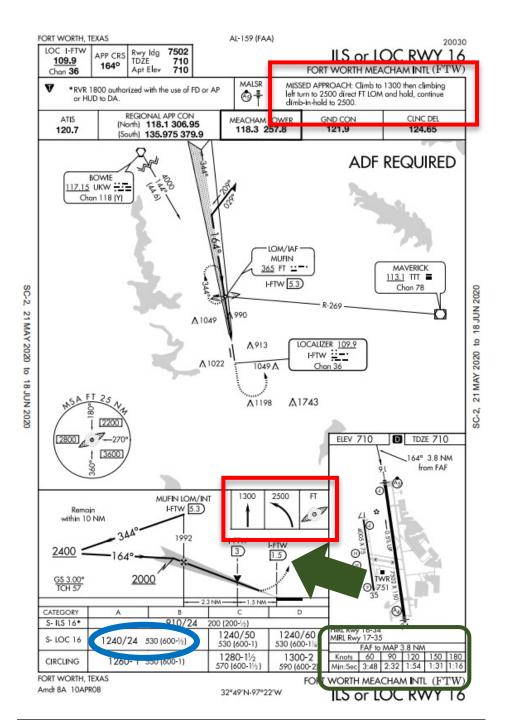
FORT WORTH MEACHAM INTL (FTW) ILS or LOC RWY 16

Altitude
Distance/Decision
Missed



Altitude Distance/Decision Missed







Missed Approach

AVIATE: Fly the Airplane

- Power, pitch, positive rate
- Gear up, flaps up
- Cowl flaps open

AVIATE: Fly the Airplane

Missed Approach

NAVIGATE

- Runway heading
- Climb attitude
- Suspend mode
- Missed procedure or as directed

Missed Approach

COMMUNICATE

AVIATE: Fly the Airplane

NAVIGATE

- Cleared for the approach, cleared for the missed
- Communication sets off a series of ATC calls and actions
- Establish climb on course, and complete any turns, before "calling the missed"

Missed Approach:

AVIATE: Fly the Airplane

NAVIGATE

COMMUNICATE









Landing and After Landing

AFTER LANDING

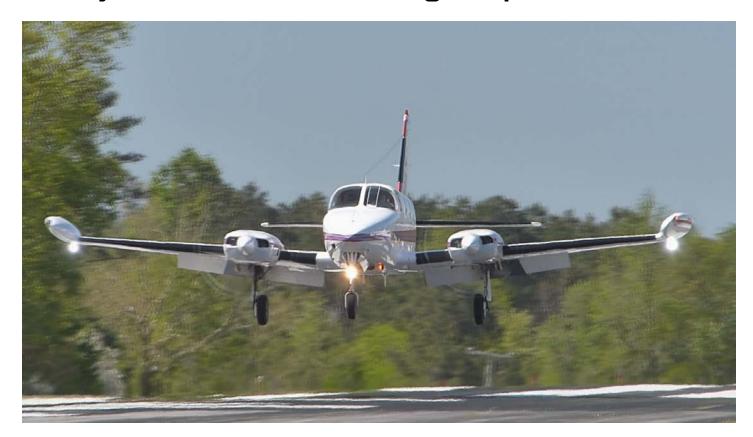


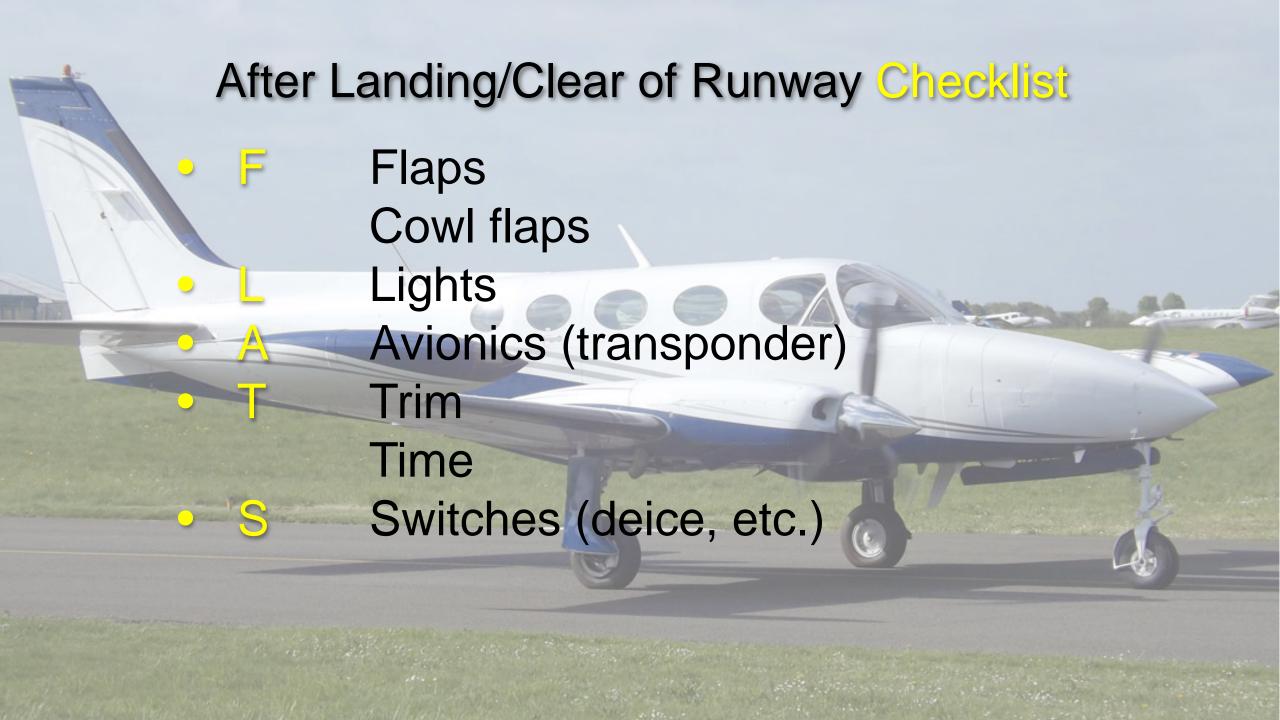
- Auxiliary Fuel Pumps LOW during landing roll.
- Cowl Flaps OPEN.
 Wing Flaps UP.



Landing

- Do not reconfigure aircraft during the landing roll
- Preferably come to a complete stop on the taxiway before retracting flaps, etc.









Thomas P. Turner



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Thank you!