



Displaced Threshold Operations

From a Pilot's Perspective – Airline Pilot Lenard Winston

What is a Displaced Threshold?

- ▶ Threshold located at a point other than the designated beginning of the runway. (Aeronautical Information Manual, FAA 2020)
- ▶ Displacement of a threshold reduces the length of runway available for landings (in specific direction)
- ▶ Limiting factor





Runway – can be used for takeoff (In either direction)

Displaced Threshold – Beginning of Runway available for landing (When in this direction of flight)

Runway Identifier

Touchdown Zone Markings

Aiming Point for Landing

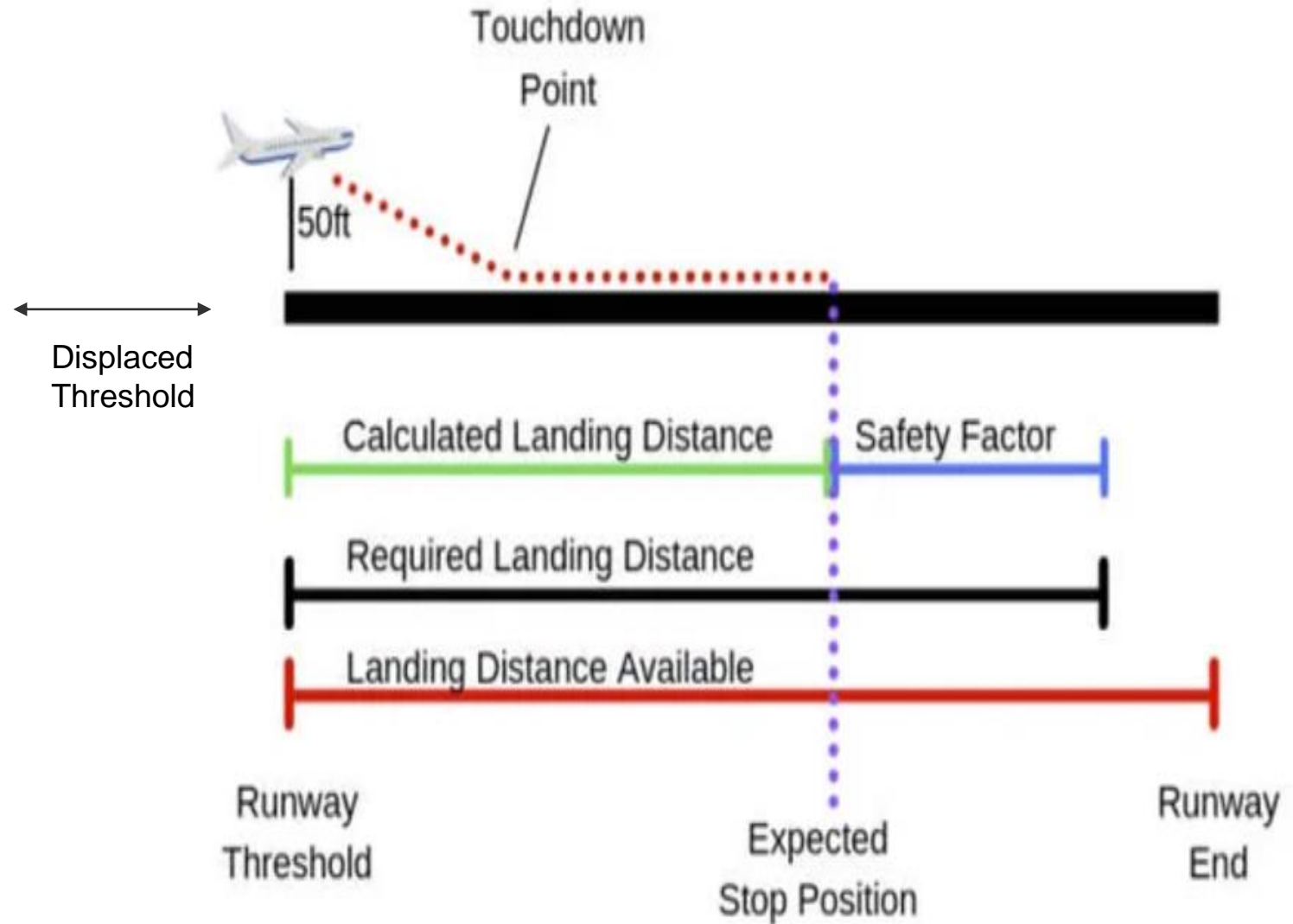
What Does a Displaced Threshold Mean to a Pilot

- ▶ Less runway available for landing (on Runway 21L)
- ▶ No changes for takeoff (regardless of direction)
- ▶ Possible obstructions
- ▶ Noise abatement procedure
 - ▶ Keeps altitude higher during approach

What Does a Displaced Threshold Mean to Pilots?



- Pre-flight Assessment
 - Calculating Landing performance
- Safe and Legal
 - Based of Performance information



Gulfstream 650



- ▶ Largest aircraft we serve
- ▶ MTOW – 99,600 lbs.
- ▶ Empty weight – 54,000 lbs.
- ▶ Take-off Distance \approx 5,858ft (MTOW, sea level, dry pavement, Calm wind, No passengers)
- ▶ Landing Distance \approx 3,000ft (Same conditions as above)
- ▶ Length – 99ft 9"
- ▶ Wingspan – 99ft 7"

- ▶ Larger aircraft means increased weight which requires more runway.

