









FLYING

REPRINTED DECEMBER 1968 WITH CHANGES 1 AND 2 INCLUDED

Replaced by **AFM 11-217**

16 Aug 2018

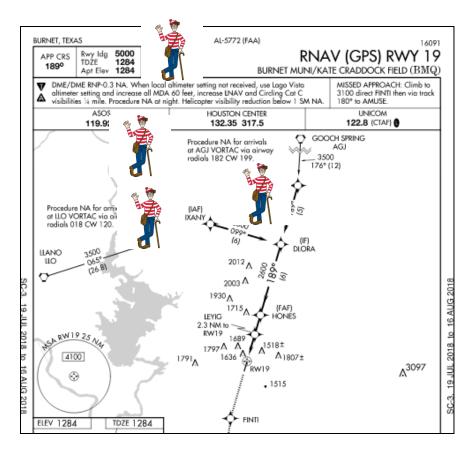
Fine Details on IAP



- NA, PTs, NoPTs, TAAs, and Other Stuff
- Or, Find and Understand The Waldos On Your IAPs

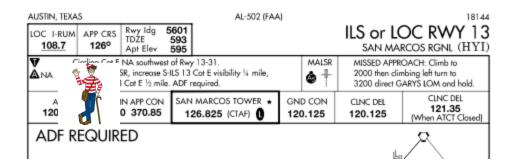
NA – Not Authorized

Find the Waldos



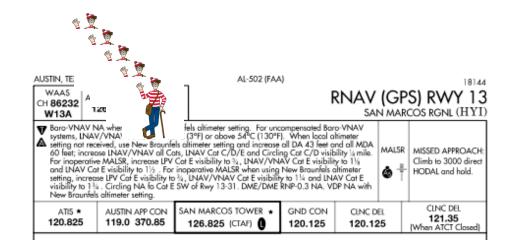
NA (cont.)

- Sometime You Wonder Why?
- E.g., Why Can't We Use This ILS as An Alternate?



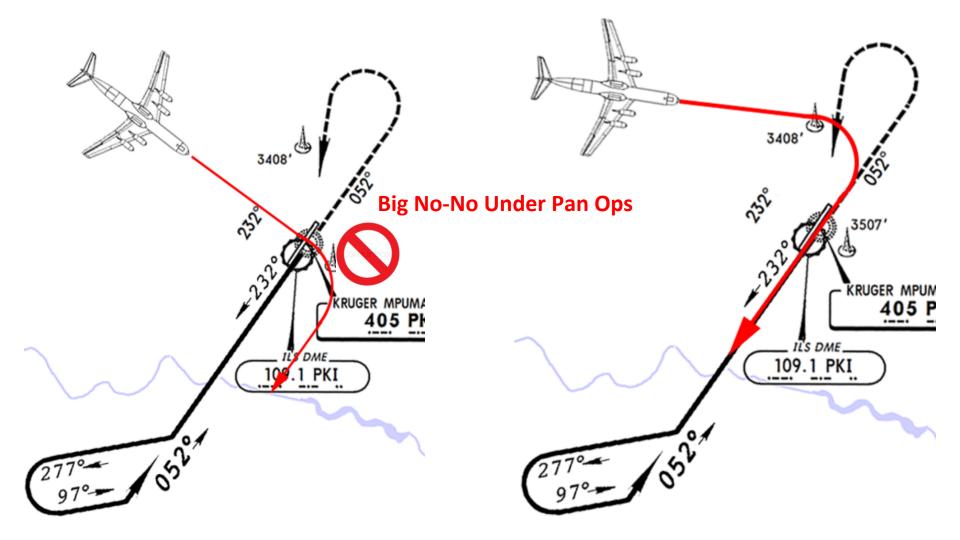
NA (cont.)

- Sometimes the NA Waldos Go Bezerk
- There are Five
 In This Pilot
 Briefing Section



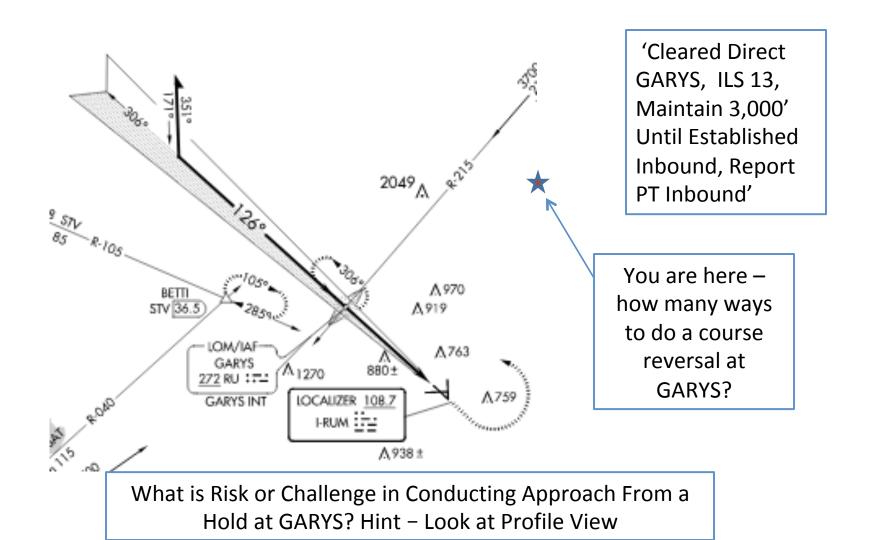
Procedure Turns (PTs)

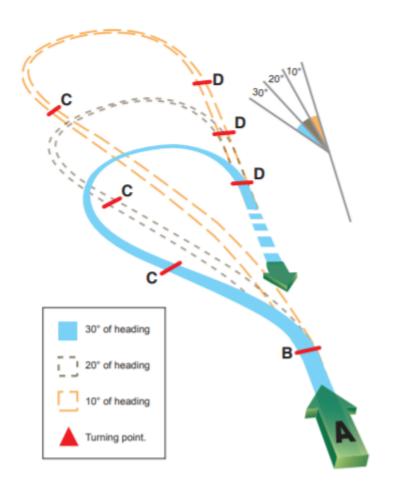
- Purpose Discussion
- How Many Types?
- ICAO Procedures (PAN Ops) Different
 - Must Fly As Depicted
 - Entry Typically Requires Alignment B4 Fix
 - Use of Holding Entry Generally OK Under TERPS
 - Especially When HPILOPT Depicted



Any Pan Ops Experience?

• Discussion?

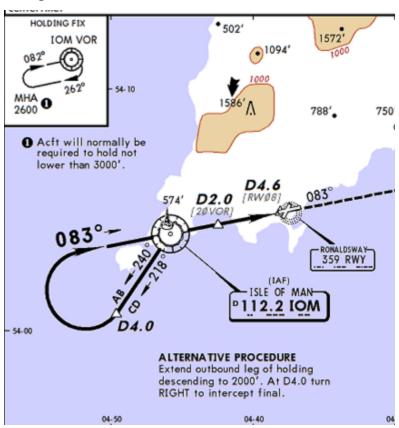




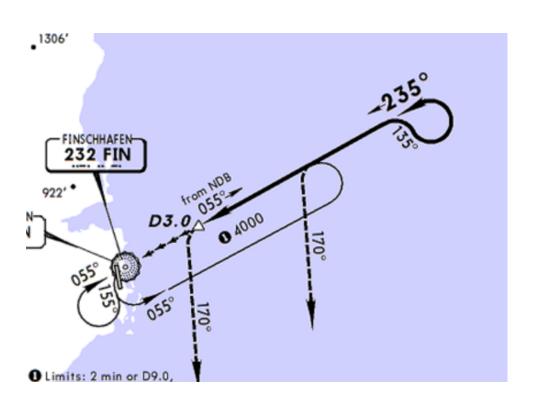
'Teardrops –
Sometimes Called a
'Base Turn' by us Old
Timers – If Published
Must Be Flown as
Depicted'

'Adjust Outbound Leg Times Dependent on Offset Angle – Typically 1, 2, or 3 minutes '

Teardrop Base Turn Example



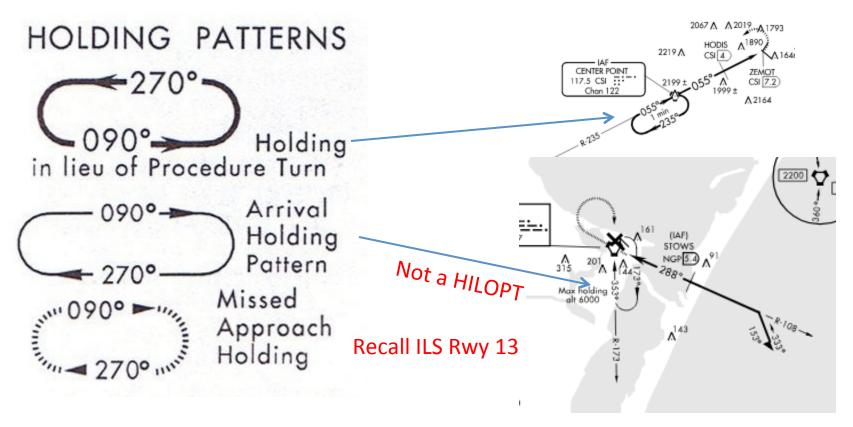
80/260 PT



'Falling Out of Favor in ICAO Countries – Still in Instrument Flying Handbook'

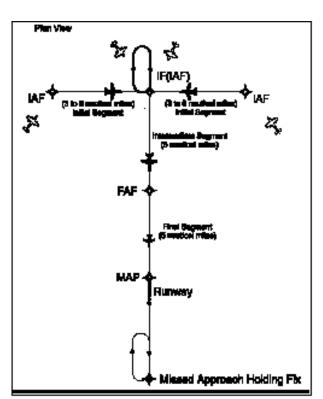
> 'I Like it Only if There is No Crosswind Component'

<u>Hold-In-Lieu-of-PT</u> (HILOPT)

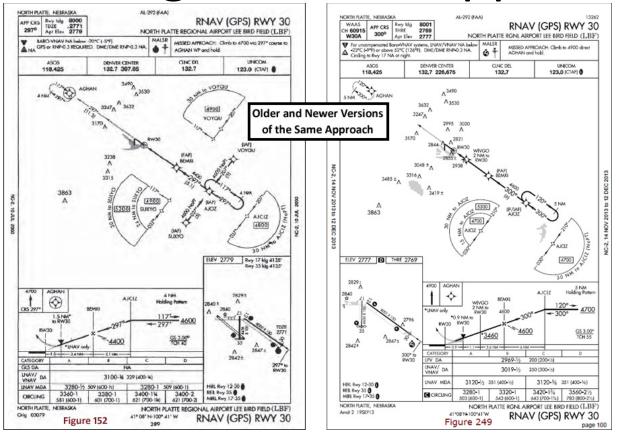


Terminal Arrival Areas and Their Approaches

- Basic 'T'
- Falling Out of Favor
- Still Have PT and No-PT Sectors Identified
- Holding in Lieu of PT at IF/IAF



Newer Designs of TAA Approaches

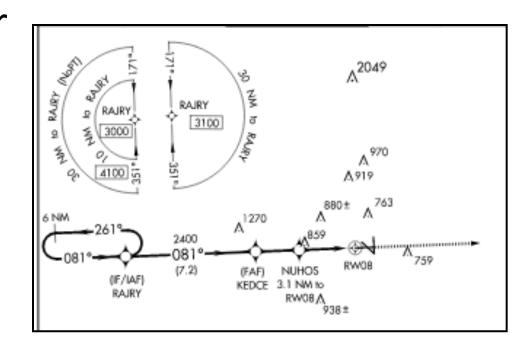


Why Do We Care? GROUP DISCUSSION



Because

- TAA Sector Arrival Course Defines PT or No-PT
- Replaces MSA
- Discuss 'Can This Still Be Used As a MSA?'



Because (cont.)

- 'An ATC clearance direct to an IAF or IF/IAF without an approach clearance does not authorize a pilot to descend to a lower TAA altitude.'
- Once cleared for the approach, and in the TAA sector, pilots may descend to the minimum altitude depicted in the TAA sector, unless otherwise instructed by ATC'

LOCKHART, TEXAS AL-6919 (FAA) Rwy Idg RNAV (GPS) RWY 36 APP CRS CH 53323 530 TDŻE LOCKHART MUNI (50R W36A 532 Baro-VNAV NA. When VGSI inop, Straight-in/Circling Rwy 36 procedure NA MISSED APPROACH: Climb A NA of night, DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Son Marcos altimeter setting, when not received, use Austin Bergstrom Intl to 1000, then climbing right turn to 3000 direct CRAYS altimeter setting and increase all DA 16 feet, all MDA 20 feet and increase LNAV Cat C visibility is mile. 122.8 (CTAF) 0 120.875 270.25 RW36 25 N Δ¹⁵²⁰ 3100 979 / A 936 JOREN Procedure NA for arrivals at BETTI 1.6 NM to on V222-556 westbound and V17 northeast bound. ۸₇₃₄ IFAF) HIPAR Procedure NA for arrivals at SEEDS on V198-212 and V556 eastbound. (14.6) KENEH ELEV 532 TDZE 530 VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 25). 3000 JOREN. *LNAV only 1.6 NM to RW36 RW36 GP 3.00° TCH 40 2100 *1060 CATEGORY LPV DA 813-1 283 (300-1) NA UNAV/ DA 863-1% 333 (400-1%) NA LNAV MDA 940-1 410 (500-1) 410 (500-1%) RW36 1020-11/2 CIRCUNG 1020-1 488 (500-1) MRL Rwy 18-36 0 488 (500-11/2) LOCKHART, TEXAS LOCKHART MUNI (50R) Orig-A 02APR15 RNAV (GPS) RWY 36 29°51′N-97°40′W

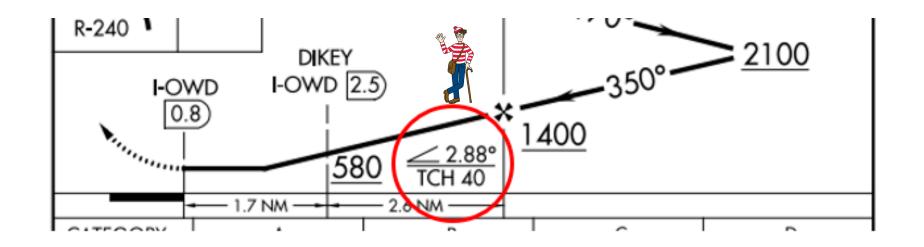
Is This a TAA Approach?

If Not, Give All of the Reasons Why Not.

Question of the Month From Radek

You May See This (Another Waldo) on Some Non-Precision Approaches

What is it?



Answer

It is the Vertical Descent Angle. FAA policy is to publish VDAs on all non-precision approaches. Published along with VDA is the Threshold Crossing Height (TCH) that was used to compute the angle. The VDA will end at the runways touchdown zone. The descent angle may be computed from either the final approach fix (FAF), or a stepdown fix, to the runway threshold at the published TCH. A stepdown fix is only used as the start point when an angle computed from the FAF would place the aircraft below the stepdown fix altitude.

The descent angle and TCH information are charted on the profile view of the instrument approach chart following the fix the angle was based on. The optimum descent angle is 3.00 degrees; and whenever possible the approach will be designed using this angle.

Answer (cont.)

The VDA provides the pilot with information not previously available on non-precision approaches. It provides a means for the pilot to establish a stabilized descent from the FAF or stepdown fix to the MDA.

Stabilized descent is a key factor in the reduction of controlled flight into terrain (CFIT) incidents. However, pilots should be aware that the published angle is for information only – it is strictly advisory in nature. There is no implicit additional obstacle protection below the MDA. Pilots must still respect the published minimum descent altitude (MDA) unless the visual cues stated 14 CFR Section 91.175 are present

Legacy Non-Precision IAPs Do Not Have This VDA

No EAA/IMC Scenario Posted for August

- So This is What Happened to Me
- On ILS 35L to KHYI, Cleared for Approach, Cleared to Land by Tower
- Well Before DA, Tower Says; 'N24547, Cancel Clearance to Land, Continue' A Bit of Waldo Confusion
- You Would? Discussion

Suggested Answer

CONTINUE – When used as a control instruction should be followed by another word or words clarifying what is expected of the pilot. Example: "continue taxi," "continue descent," "continue inbound," etc.

- I Queried Tower If He Wanted Me to Continue My Approach
- He Acknowledged Yes, and, After a United 737
 Took Off, He Reinstated My Clearance to Land

TAF Quiz

FM130800 16005KT P6SM OVC015 =

What Does the = Mean?

- A. Overcast with Lower Fog
- B. End of TAF Group
- C. Layered at 015 AGL and Up

Remember – Find All The Waldos

Sorry – Sick Cartoon



"I spent years on the Road To Success, but I was driving in the wrong direction."