15 December 2021

EXPANDING RNP CAPABILITIES





HONEYWELL FLIGHT TECHNICAL SERVICES

Supporting the Operational and Training Needs of Honeywell Pilot Customers Through:

Pilots.Honeywell.com

• A one-stop website for pilot guides, videos and other familiarization material on Honeywell Business and Regional Jet avionics

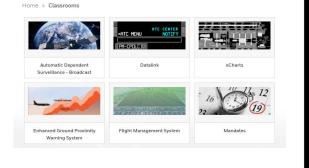
Honeywell Direct-To Newsletter

- Monthly articles on topics of interest to Pilots
- Access to articles <u>here</u>
- Subscribe to newsletter <u>here</u>

Technical Support and Consultancy Services

- Consultation and operational support for upgrades
- Operational approvals for RNP AR
- Operational troubleshooting: <u>FTS@Honeywell.com</u>

Select a Virtual Classroom



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WHY DID WE DECIDE TO TACKLE ASPEN?

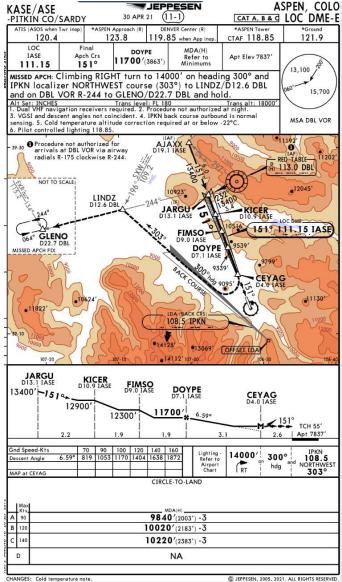
• RNP is an untapped resource

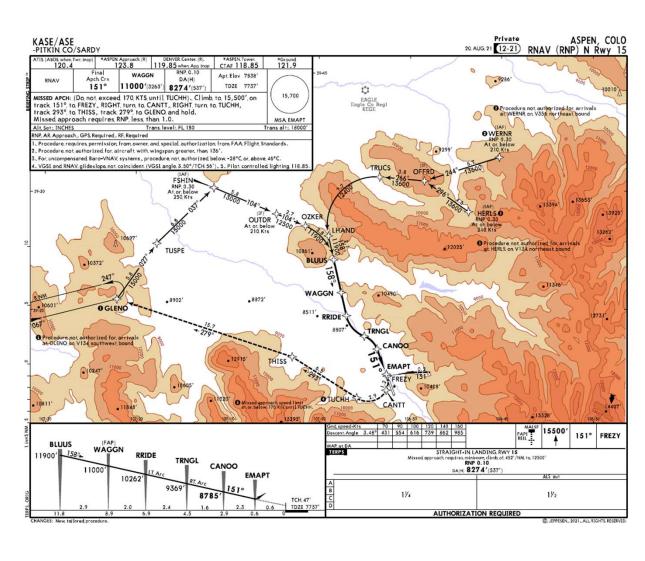
• Offer more value to our RNP customers

• Bring approaches to underserved airports



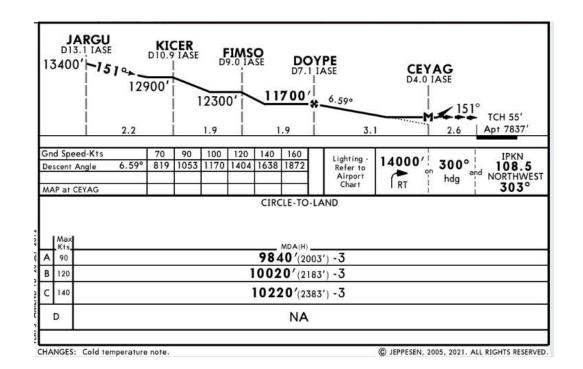
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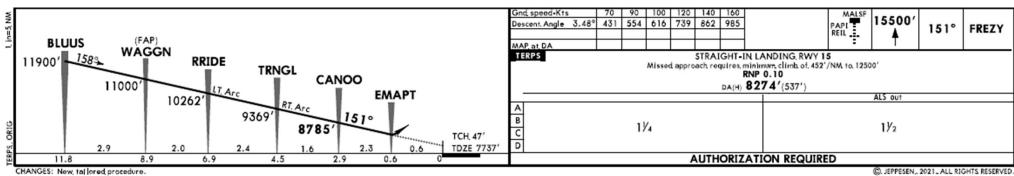




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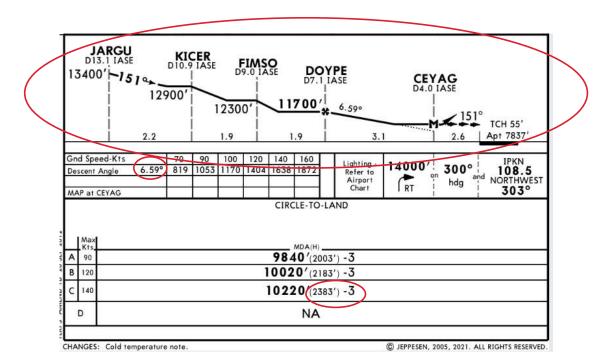
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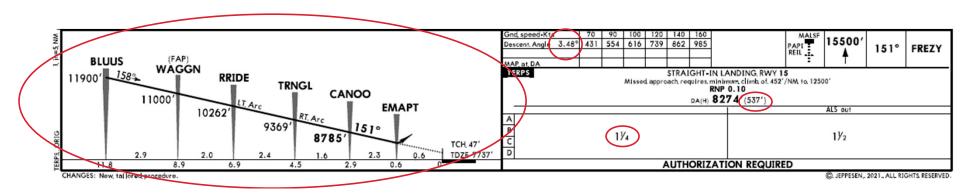




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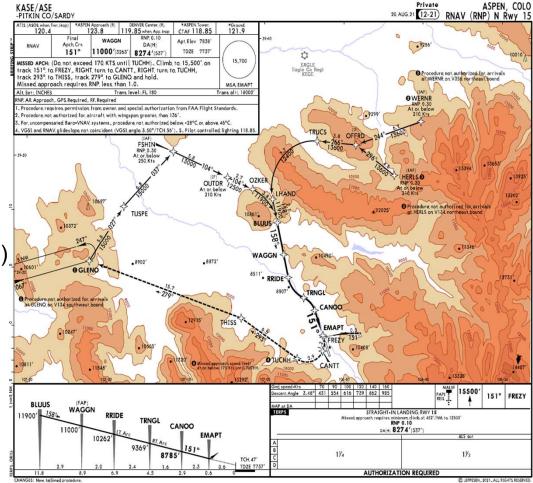




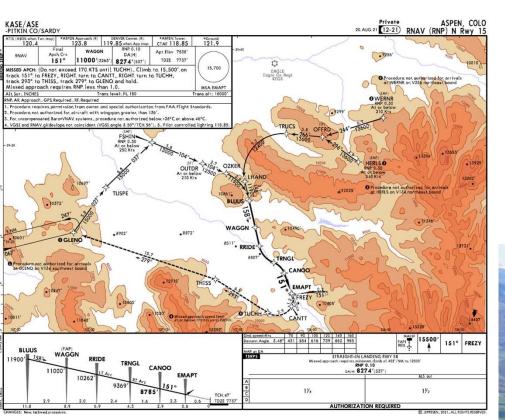
BENEFITS

Aspen RNAV (RNP) N RWY 15

- Honeywell's RNP procedure for the Aspen Pitkin Co airport brings the following advantages over public procedures:
 - Lower minimums (537' vs 2383')
 - Stabilized approach glidepath (3.5° vs 6.59°)
 - Authorized for night operations
 - Authorized for Category A, B, C, D aircraft
 - Guided missed approach for safe extraction



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OPPORTUNITIES AT TETERBORO?

Must have significant improvement over existing procedures

Must work for Air Traffic

Minimal Training

Add value for our RNP customers

Safety

TEB's 'Non-Circling, Circling Approach'

If you think the conditions **are just too taxing for man** and machine, **ask for a different approach** or divert

BY JAMES ALBRIGHT james@code 7700.COM

Editor's note: On May 15, 2017, a Leargiet 35A crashed on approach to Teterboro Airport in New Jersey, killing both pilots, the only persons aboard. Winds at the time uver reported as 320 at 16 kt. gusting to 32 and the aircraft had been cleared for the LLS Runuoy 6, circle to land knuwcy. I while the NTSB's final rport isn't expected until sometime next year, a review of procedural considerations under such conditions can help ensure fight safety.

We have a circling approach not a circling approach? If to we have a circling approach in the semitional Airport. Temmessee (KMEM) Localizer to fumway 27, chances are you will be circling to fumway IRR and will be expected to do so at minimums. In a Category Daircent, you will be evinated on your ability to keep the airplane at the 1020-ft. Minimum Descent Altitude (MDA), which is just 679 ft. above the landing warface, and within 2.25 am of the airport or risk losing sight. You are circling. Now, let's say you are in your airplane on a clear day with

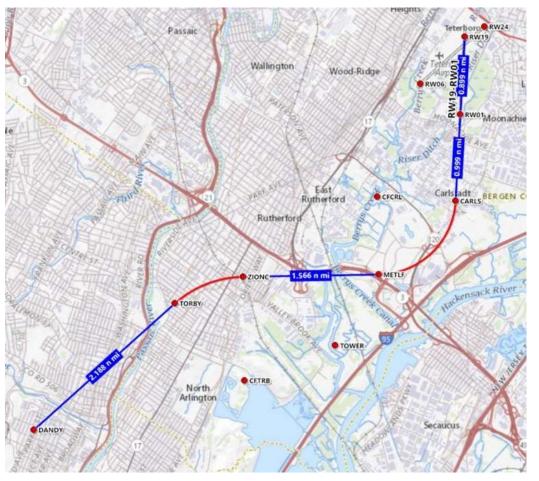
great visibility. In fact, the only blemish on this other wiss perfect day off pring in that the winds are 840/2460. At Teterboro Airport, New Jersey (RTEB), this means you will be flying the ILS to Runway 6, circle to Runway 1, using a left base with an overshooting wind. You can't fly a straight-in because that will impact the heavy traffic pattern at Newark Liberty International Airport, New Jersey (KEWR). You can't overfly the airport for a more desirable right base into the wind, because Teterboro is just too busy. New York Approach Control and Teterboro Tower both use the same terminology: "Cleared the ILS Runway 6, circle to 1." So you are circling, right?

It depends on what you mean by "circling," and your understanding of the torminology makes all the difference. Of course, Teterboro is not unique when it comes to the need to circle in visual meteorological conditions (VMC), but its oxtremely high traffic density and proximity to several major New York City area airports probably makes it the most challenging example. Once you understand what it is you are



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RNAV/RNP VISUAL RWY 6 CIRCLE RWY 1



Assumptions:

- easiest/quickest to implement
- follows existing flight paths
- no additional instrument approaches
- prototype for future instrument approach
- · easily manage eligible aircraft

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THANK YOU For N

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