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"One of the problems that we've seen in the past with the circling-to-land approaches is unstabilized approaches - airplanes being too fast and too high at the end of the circling maneuver," said Richard Boll, a member of the NBAA Access Committee and chairman of the Airspace, Air Traffic and Flight Technologies Working Group. As a result, the FAA has increased the size of protected airspace used in establishing the minimum descent altitude (MDA) on circle-to-land approaches. While these radii are smaller than those used in ICAOs PANS-OPS, they represent a significant improvement over the previous TERPS criteria. If these lines of minima are not published, then circling approaches are prohibited. Pilots conducting circling approaches based on circling minima annotated with an "Inverse C" may take advantage of the larger circling protected airspace when executing the circling maneuver. Non-standard landing configuration or abnormal procedure speed additives may result in the need to use minima associated with a higher approach category. It is never permissible to use a lower approach category based on the aircraft's actual landing weight. Figure 1 - Circling Approach Area Under the previous terminal instrument procedures (TERPS) criteria, the radii used to define the size of these arcs were relatively small, especially for category C and D operations (Fig 2). On these approaches, pilots must ensure that they do not base their circling maneuver on the larger airspace afforded by the new TERPS criteria and risk exceeding the circling protected airspace during the circling maneuver. For example, a category C aircraft is protected out to 2.7 NM from the runway thresholds at circling MDAs up to 1,000 feet MSL. These safety concerns have been raised by industry representatives who suggest that the amount of protected airspace allowed for aircraft maneuvering throughout a circling approach is insufficient. Aircraft Approach Categories An aircraft's approach category is based on 1.30 VSO or VREF, as defined by the certification rules applicable at the time that the type certificate was issued, computed at the aircraft's maximum certificated landing weight. Figure 5 - Jeppesen Approach Charts - Circling Minima Based on Larger Circling Areas These charting providers will publish a table similar to that shown in Figure 3 in the approach chart book or airway manual. Prior to December 2002, final approach speed for transport airplanes was defined as 1.30 VSO. May 27, 2013 For nearly 20 years, the aviation industry has expressed to the Federal Aviation Administration (FAA) its concern over spatial limitations of circle-to-land approaches. For More Information FAA Charting Notice: New Expanded Circling Approach Icon Legend Page (35 KB, PDF) Jeppesen Briefing Bulletin: Implementation of New Circling Criteria Based on TERPS 8260.3B Change 21 (56 KB, PDF) Figure 2 - Previous Circling Area Radii Approach Category Radius (NM) A 1.3 B 1.5 C 1.7 D 2.3 E 4.5 Industry safety groups have long expressed concerns that the radii size used to establish these arcs was insufficient to contain large, jet transport airplanes during the circle-to-land maneuver. While pilots are expected to use the extra maneuvering room to establish a stabilized approach on final prior to landing, they are still expected to remain safely within the confines of the circling protected airspace while executing the circling maneuver. "And then, as the MDA increases, we're going to see an additional widening of the protected airspace by approximately one-tenth of a nautical mile for every 2,000 feet of altitude." Combined with the overall increase in protected airspace for CAT C and CAT D aircraft, Boll said, an aircraft executing the circling-to-land approach at 8,000 feet MSL would have a total of approximately 1.5 nm more maneuvering room under the new TERPS criteria. The circling protected airspace provides 300 feet of obstacle clearance at the circling MDA. Figure 4 - U.S. Terminal Procedures Approach Charts - Circling Minima Based on Larger Circling Areas Jeppesen uses an "Inverse C" diamond icon to identify circle-to-land minima based on the new criteria (Fig 5). Charting Changes Aeronautical charting providers have implemented new specifications to identify circle-to-land minima based on the new TERPS criteria. Have a quick question? Considerations for Circle-to-Land Approaches The FAA reviews all instrument approaches at U.S. airports every two years and as such it will take the FAA a number of years to update all existing approaches to the new criteria and apply the larger circling area dimensions. These concerns were highlighted following a Boeing 767 controlled flight into terrain accident during a circling approach designed using US TERPS criteria. These arcs are centered on each runway threshold and connected tangentially to form a continuous block of airspace that the pilot can use to maneuver and align the aircraft with the landing runway (Fig 1). U.S. Terminal Procedures instrument approach charts use an "Inverse C" circle icon (white "C" surrounded by a black background) to identify circling minima based on the new criteria (Fig 4). Browse our Frequently Asked Questions. The protected airspace radius increases by 0.1 NM for every 2,000-foot increase in MDA. Operators can expect to see these changes when their airports come up for their review. In addition, the size of the circling approach area did not always allow enough room for pilots to align the aircraft with the final approach and consistently achieve a stabilized approach. Circling minima not identified by the "Inverse C" icon continue to use the older circling area dimensions defined by the smaller radii. In addition, this table will be published in a future change to the Aeronautical Information Manual (AIM). Since May 2, 2013, FAA has begun to publish instrument approach procedures that use the larger circling approach airspace dimensions. Circling Area Dimensions The protected airspace for a circle-to-land approach is defined by arcs of a specific radius based on the aircraft approach category defined in 14 CFR Part-97. This increase in radii size with higher MDAs accounts for greater true airspeeds and adverse wind gradients encountered at higher mean sea level (MSL) altitudes. This new criteria affords pilots greater lateral obstacle clearance protection and increased maneuvering space to properly align and stabilize the final approach and landing out of a circling approach. Transport airplanes type-certificated after December 2002 define final approach speed using the term VREF, which was newly added to the definitions contained in 14 CFR part 1. In addition, the radii dimensions increase in size as circling MDA increases (Fig 3). Figure 3 - New Circling Area Radii Circling MDA in feet MSL Approach Category and Circling Radius (NM) CAT A CAT B CAT C CAT D CAT E 1000 or less 1.3 1.7 2.7 3.6 4.5 1001-3000 1.3 1.8 2.8 3.7 4.6 3001-5000 1.3 1.8 2.9 3.8 4.8 5001-7000 1.3 1.9 3.0 4.0 5.0 7001-9000 1.4 2.0 3.2 4.2 5.3 9001 and above 1.4 2.1 3.3 4.4 5.5 "For CAT C and CAT D aircraft, the protected airspace is going to increase about one nautical mile from what we've seen in the past in all instances," said Boll. Whether final approach speed is defined as 1.30 VSO or VREF, the aircraft's approach category is always based on maximum certified landing weight. "They end up landing too far down the runway, increasing the chances of a runway excursion." Subsequently, the FAA conducted an extensive review that resulted in new TERPS criteria that increases the radii dimensions defining the circling protected airspace.

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