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## Aviation Safety

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### Memorandum

Date: April 19, 2019

To: Gary Powell, Director, Aeronautical Information Services

From: Mark Steinbicker, Manager, Flight Technologies & Procedures Division

Prepared by: Lawrence Patterson, Flight Procedures and Airspace Group

Subject: Criteria for Area Navigation Helicopter Procedures

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Your request to use Order 8260.58, United States Standard for Performance Based Navigation (PBN) Instrument Procedure Design to evaluate helicopter instrument flight procedures (IFPs) is approved with the following conditions:

1. This approval is not applicable to helicopter departure procedures.
2. Evaluate Instrument Approach Procedures (IAPs) using RNAV (GPS) Lateral Navigation (LNAV) functionality for approach Category A.
3. Process IAPs as special IFPs in accordance with Order 8260.60, Special Instrument Procedures.
4. Continue to evaluate visual/VFR visual segments IAW Order 8260.42B, United States Standards for Helicopter Area Navigation. Include calculations and evaluation results in procedure documentation.
5. Standard helicopter chart notes apply. Specify a 70 knot final and missed approach segment speed restriction.
6. Evaluate missed approach using the following modifications;
  - a. Perform an initial evaluation using the default climb gradient (CG) of 200 ft/NM. If no penetrations of the obstruction clearance surfaces (OCS) exist, no further evaluation is necessary.
  - b. If penetrations exist, evaluate the procedure according to Order 8260.58 using a CG of 352 ft/NM to replicate the helicopter 20:1 missed approach OCS defined in Order 8260.3, United States Standard for Terminal Instrument Procedures (TERPS). If no penetrations of the OCS exist, no further evaluation is necessary.
  - c. If the evaluation in step b indicates penetrations of the OCS, increase the minimum descent altitude (MDA), adjust the missed approach point (MAP) location, or increase the CG. If increasing the MDA and/or adjusting the MAP location, and additional evaluations per steps a and/or b do not result in penetrations of the missed approach OCS, no further evaluation is necessary.

- d. If electing to publish a non-standard CG (greater than 400 ft/NM), use the required CG and CG termination altitude (CGTA) calculated from Order 8260.58 modified as follows to replicate the helicopter CG and CGTA.
  - i. To determine the CG, add 48 ft/NM to the required CG from the Order 8260.58 evaluation.
  - ii. To determine the CGTA, multiply the primary distance (NM) by 48 ft/NM, then add the product to the required CGTA from the 8260.58 evaluation.

This memorandum is effective immediately and remains in effect until rescinded by Flight Standards Service. Please direct all inquiries to Thomas J. Nichols, Section Manager, Flight Procedures and Airspace Group at 405-954-1171 or [thomas.j.nichols@faa.gov](mailto:thomas.j.nichols@faa.gov).