Helicopter Instrument Criteria Document Update

Presented to: USHST IWG
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Agenda

• Helicopter Performance Based Navigation Service Spectrum
• Status on FAA Helicopter Instrument Criteria
• Future Criteria
• What do you think?
Status on FAA Helicopter Instrument Criteria

- **New approach to FAA Instrument Criteria**
  - Scheduled, more frequent updates to criteria
    - Two major updates a year
    - Allows planned implementation of new capabilities and changes.

- **Performance Based Navigation Instrument Criteria**
  - Criteria is based on National Navigation Specifications
  - Procedure capability based on aircraft equipment and pilot training/qualification
Helicopter PBN Service Spectrum

Helicopter Users
* Primary IFR Users

Off Shore*

Helicopter Air Ambulance*

Military*

Executive*

Tourism

Law Enforcement*
Helicopter PBN Service Spectrum
Level of Service

Spectrum of IFR Operations

Point in Space
Proceed VFR
Copter Routes
Full IFR to/from the ground

Point in Space
Proceed Visually

Minimal Infrastructure Needs

Greatest Infrastructure Needs

Differing Infrastructure Needs
Status on FAA Helicopter Instrument Criteria

• FAA Order 8260.42B, United States Standard for Helicopter Area Navigation (RNAV)
  – The criteria is being moved from one consolidated document to the primary FAA criteria documents
  – Once the changes are approved the FAA Order 8260.42B will be cancelled

• FAA Order 8260.3, United States Standard for Terminal Instrument Procedures
  – US Standard for Instrument Procedures using conventional navigation aids and common criteria that is not navigation source dependent, e.g. Visibility Criteria
  – Incorporated helicopter infrastructure guidance from the 42B
  – Introduced Point in Space approach and departure criteria for helicopters using conventional (e.g. VOR) navigation aids.
Status on FAA Helicopter Instrument Criteria

- **FAA Order 8260.19, Flight Procedures and Airspace**
  - Incorporate unique helicopter Procedure Notations
  - Identifies Airspace requirements for the Helicopter Instrument operations.

- **FAA Order 8260.46, Departure Procedure (DP) Program**
  - Documentation and implementation standards for Helicopter Point in Space Departures
  - Includes documentation and implementation standards for RNP 0.3 departures
  - Introduce Helicopter Departure documentation for helicopter departure from a helipad
Status on FAA Helicopter Instrument Criteria

- FAA Order 8260.58, United States Standard for Performance Based Navigation (PBN) Instrument Procedure Design
  - US Basis for PBN Implementation
  - Includes Enroute Airways, Terminal Area STARS, SIDS, Approaches and Departure Criteria
  - New home for the helicopter RNAV criteria elements
  - Approaches, Departures, Helicopter Airways, RNP 0.3 Enroute and Terminal Routes
  - Improves the Capability of being automated
Current Planned Future Criteria

• Refining Departure Criteria
  – Point in Space
  – Departures from Helipad

• Infrastructure
  – Defining Instrument Flight Rules Heliport
What do you think the FAA should be doing?

- What do you as an industry think the future IFR direction should be for the FAA
- Armed with that knowledge the Helicopter Modernization Team will identify gaps between where we are and identify necessary actions to get to that future state.
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