

GOVERNMENT/INDUSTRY AERONAUTICAL CHARTING FORUM 05-01

May 11-12, 2005

Recommendation Document

Subject: Charting of Radius-to-Fix (RF) Legs/Path Terminators

Background/Discussion: Pilot recognition of RF legs and any associated requirements is important for procedure compliance. Required Navigation Performance (RNP) Special Aircraft and Aircraft Authorization Required (SAAAR) Instrument Approach Procedures (IAP) will regularly incorporate RF legs. In the future, design criteria for Departure Procedures (DP) and Standard Terminal Arrivals (STAR) may also include RF legs.

Recommendations: Establish a textual and graphic depiction standard for RF legs in IAPs, DPs, and STARs. The standard should promote awareness of the presence of an RF leg as well as allow for adequate pilot crosscheck of procedure information and aircraft performance limitations. The portrayal and/or text might communicate the following information:

- The presence of an RF leg
- The radius of the RF leg
- The length of the RF leg
- The direction of turn (R/L-Arc)
- The center point of the radius
- Speed limitations associated with the RF leg (Groundspeed vs KIAS)
- Maximum bank angle
- Depiction of entry/exit waypoints as flyby
- Resolution of distances/degrees

Comments: This recommendation affects IACC specifications.

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MEETING 05-01: Mr. Mark Steinbicker, AFS-410 submitted this issue. Mr. Steinbicker reported pilot recognition of RF legs and any associated requirements is important for procedure compliance. RNP SAAAR IAPs will regularly incorporate RF legs. In the future, design criteria for DPs and STARs may also include RF legs. Recommendation is to establish a textual and graphic depiction standard for RF legs in IAPs, DPs, and STARs. The standard should promote awareness of the presence of an RF leg as well as allow for adequate pilot crosscheck of

procedure information and aircraft performance limitations. The portrayal and/or text might communicate the following information:

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- The radius of the RF leg
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ACTION: AFS-410.
