

ACF DME Work Group Update

Presented to: Aeronautical Charting Forum

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Federal Aviation
Administration



Background

- **Recommendation Document 14-02-284, DME Facilities – Charting and MAGVAR Issues, introduced in ACF 14-02**
- **After much discussion, the issue was referred to a work group**
- **Work group met February 10, 2015**
- **Status briefed at ACF 15-01**



Scope

- **VOR MON program plans to remove ~ 308 VOR by 2025**
 - 155 are VOR/DME (DME to remain for RNAV)
 - 141 are VORTAC (TACAN will remain and be charted)
 - Phase 1 of the program will target 74 VORs by 2020
- **Investigation of a program to add DMEs for RNAV use to fill coverage gaps – Possible 2018 implementation timeframe**

Key Understandings

- **NASR can add DME as a parent NavAid. MagVar is part of the entry (could use “0”)**
- **DMEs must be in Aircraft Nav Database as a NavAid**
- **DME selection algorithms in FMS/FMC are proprietary and vary by manufacturer**

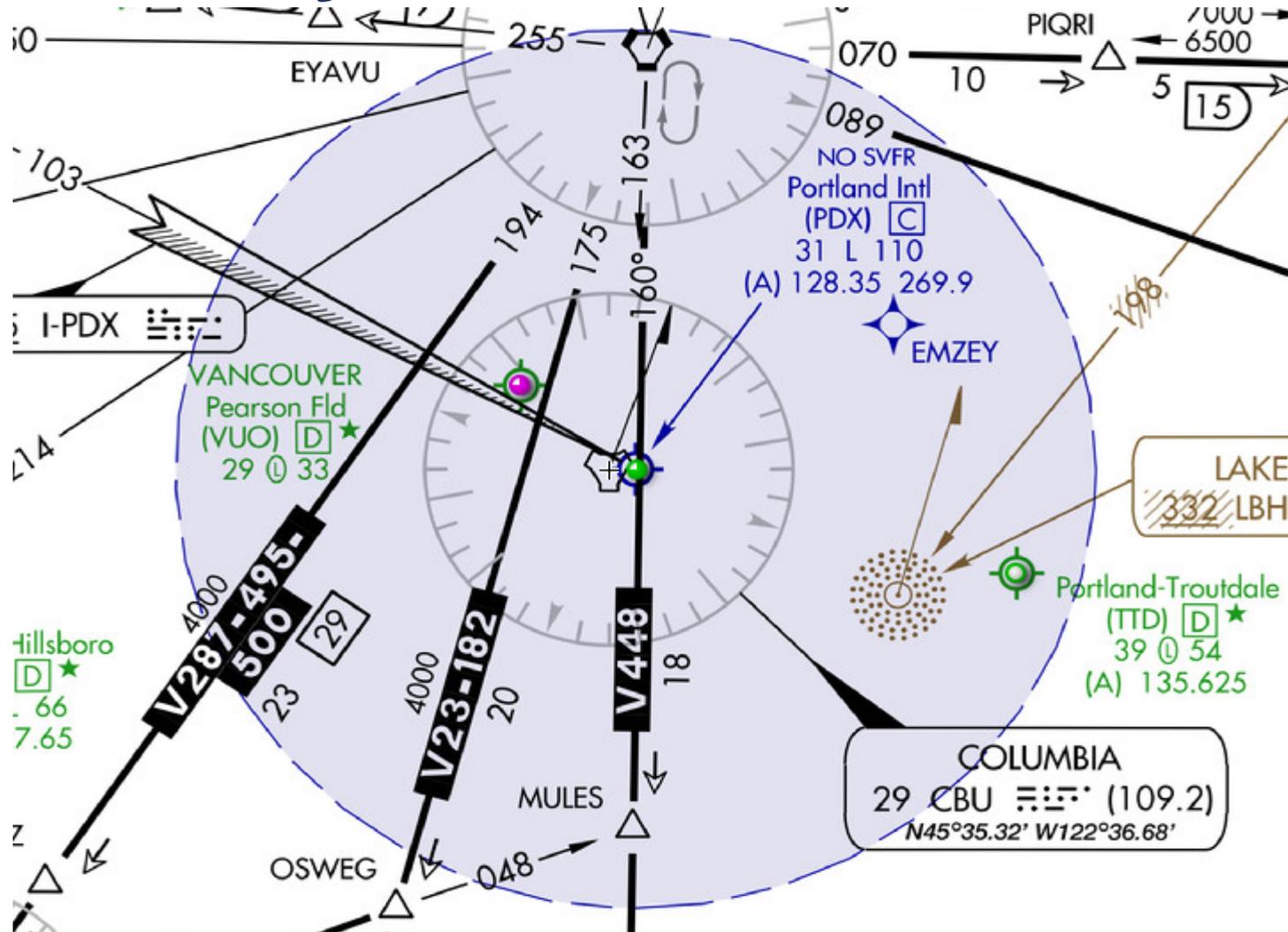
Outcomes

- **DMEs support conventional uses (fix identification, progress along airway, etc.) and RNAV use (DME/DME positioning)**
- **DMEs supporting conventional uses will be charted. Form 8260-2 can identify DMEs supporting conventional uses**
- **DMEs need to retain 3 letter ident. System retrieves DMEs by ident**

Recommendation

- **Chart DMEs only supporting RNAV service**
 - Uncertainty on customer impact if not charted
 - Roughly 52 DMEs as a result of VOR MON Phase 1 and TACAN Reduction
 - Retains named waypoints for air traffic flexibility
 - Reevaluate in the future
- **Implement DME NavAid symbol**
 - Square box is used on VOR/DME and NDB/DME
- **Implement DME Communication Box**
 - Would be similar to TACAN Communication Box with VHF paired frequency and TACAN channel in parenthesis

TACAN Symbol and Comm Box



Future Actions

- **Verify DME as a parent facility in NASR will be assigned a FOM and added to aircraft Nav Database**