

Very High Frequency Omnidirectional Range (VOR) Minimum Operational Network (MON)

Program Update

Presented at: Aeronautical Charting Meeting (ACM)

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Federal Aviation
Administration



Agenda

- Program Overview
- VOR MON Establishment
- VOR Discontinuance
- Summary

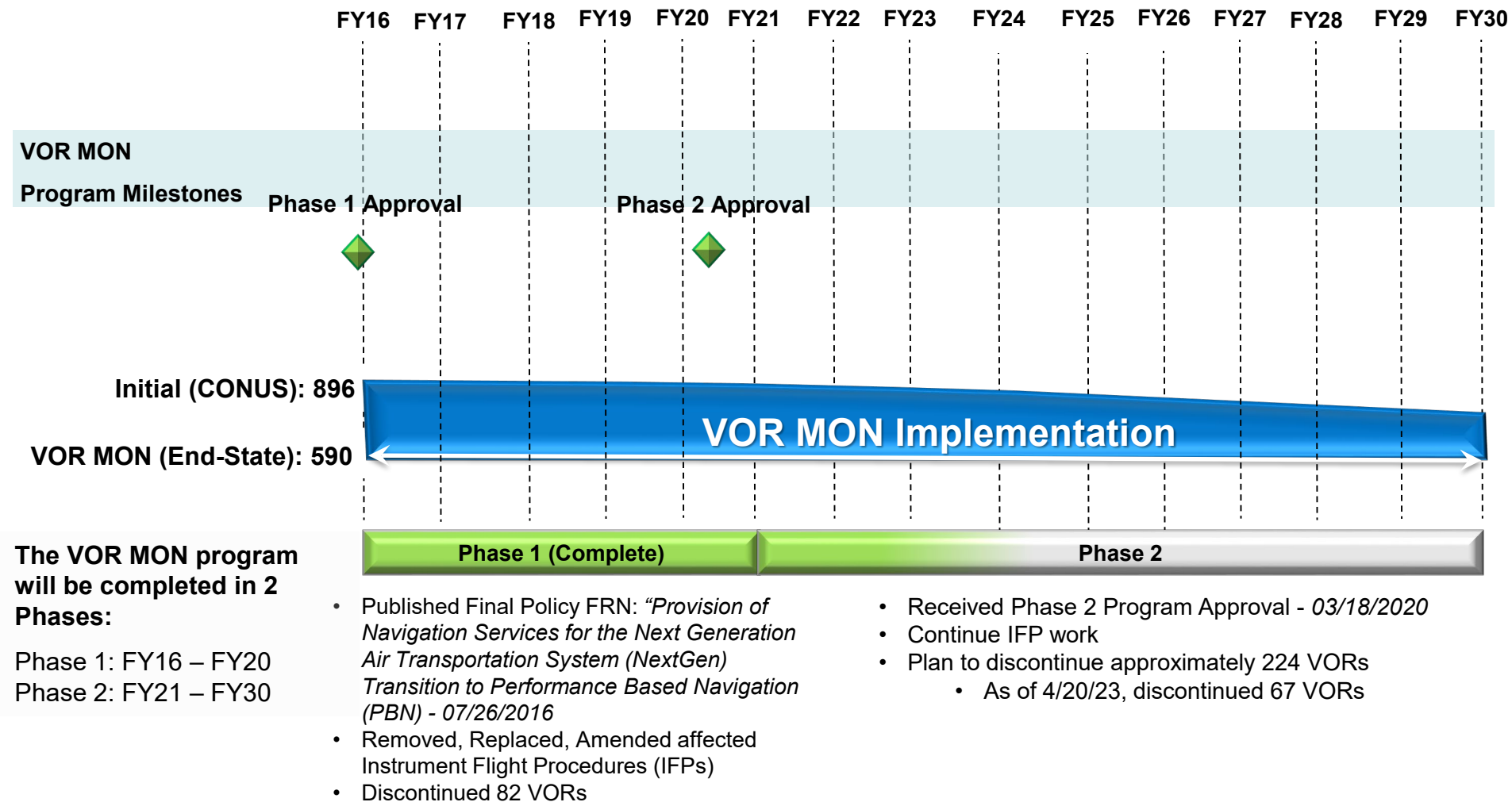


Program Overview

- The VOR MON program is optimizing the VOR network in the contiguous United States (CONUS) to provide a backup conventional service in the event of an unplanned Global Positioning System (GPS) outage.
- In order to establish the VOR MON, new VOR Standard Service Volumes (SSVs) are being implemented to provide VOR signal coverage starting at 5,000' Above Ground Level (AGL).
- During an unplanned GPS outage, aircraft will be able to continue VOR-to-VOR navigation or proceed to a MON airport and conduct a VOR, Localizer LOC), or Instrument Landing System (ILS) approach.
- 306 VORs that do not meet the VOR MON criteria are planned for discontinuance.



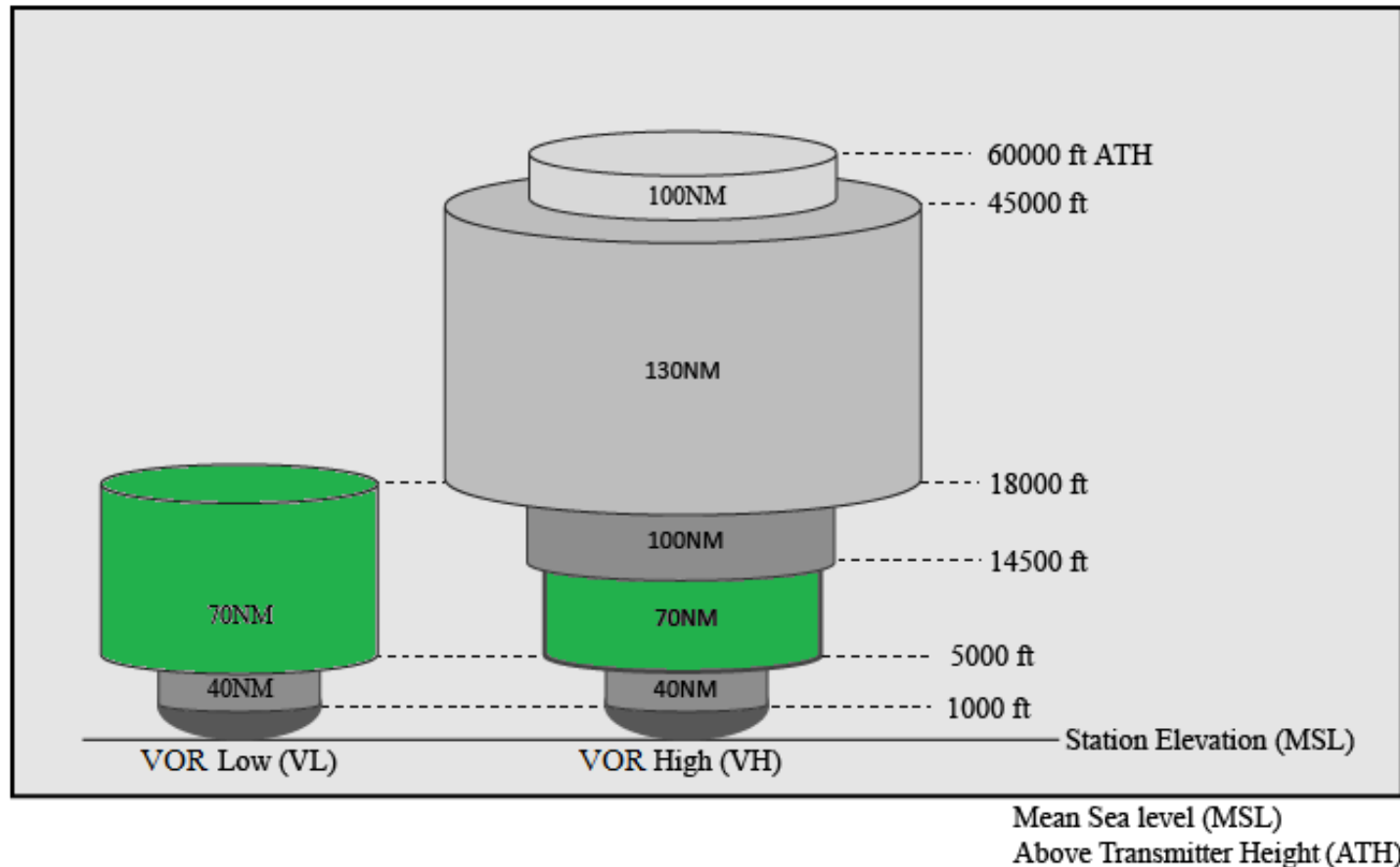
VOR MON Program Timeline



VOR MON Establishment



New VOR Standard Service Volumes



Frequency Changes

**144 Frequency Changes
Required**

**58 Frequency
Changes Completed**



New VOR SSV Publication

491 new VOR SSVs must be implemented

242 new VOR SSVs published

VOR Discontinuance



VOR Discontinuance

**306 VORs Planned for
Discontinuance**

**149 VORs
Discontinued**




Summary

- 242 out of 491 new VOR SSVs have been published
- 149 out of 306 VORs have been discontinued



VOR MON Website

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Ground-Based Navigation Overview

Instrument Landing System (ILS)

Very High Frequency Omni-Directional Range (VOR)


Very High Frequency Omnidirectional Range Minimum Operational Network (VOR MON)

Distance Measuring Equipment (DME)

NextGen DME

Contact Us

Navigation Programs - Very High Frequency Omnidirectional Range Minimum Operational Network (VOR MON)



The FAA is transitioning the National Airspace System (NAS) to Performance Based Navigation (PBN). As a result, the VOR infrastructure in the Contiguous United States (CONUS) is being repurposed to provide a conventional backup navigation service during potential Global Positioning System (GPS) outages. This backup infrastructure is known as the VOR MON.

Concept of Operation

The VOR MON is designed to enable aircraft, having lost GPS service, to revert to conventional navigation procedures. This will allow users to continue

Current Status

- VOR Target Discontinuance List
- VOR Retention List, dated February 2022

Quick Links

- Proposed Rule FRN (76 FR 77939)
- Disposition of Comments FRN (77 FR 50420)
- Final Policy FRN (81 FR 48694)
- What is the VOR MON? (Video)
- VOR MON Summer Safety Series Webinar (Video)
- Aeronautical Information Manual (AIM) (go to 1-1-3f)

Contact Us

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Questions

