

# 1670-1675 MHz Service Rules

**Flexible Use Fixed and Mobile  
Service**



# 1670-1675 MHz Service Rules

## Licensing Plan

- **One 5 MHz Block**
- **Nationwide Licensing**
- **Licensing framework under Part 27**
  - allows for flexible use of the band for innovative services
- **License Term – 10-years**
  - Licensee must make showing of substantial service

# 1670-1675 MHz Service Rules

## Flexible Use

- **Facilities Based Licensee**

- Licensee owns and operates facilities

- **Band Manager**

- Leases to others who are permitted to use and build facilities
- Exempt from following Part 27 requirements:
  - prohibition on cellular architecture
  - notify Public Safety Frequency Coordinator
  - lease a predominant amount of spectrum
  - restrictions on partitioning and disaggregation

# 1670-1675 MHz Service Rules

## Technical Limitations

### ● Power Limits

- Fixed - 2000 watts EIRP
- Mobile - 4 watts EIRP

### ● Out-of-Band Emissions

- $43 + 10\text{Log}(P)$  dB
- Resolution Bandwidth 1 MHz or less, but at least 1% of fundamental, provided energy is integrated over 1 MHz

# 1670-1675 MHz Service Rules

## GOES Quiet Zones

- **Coordination Zones**

- 100 kilometers (62.1 miles) - Fairbanks, AK & Wallops Island, VA
- 65 kilometers (40.4 miles) – Greenbelt, MD

- **Protection Needed**

- All Times – Fairbanks, AK & Wallops Island, VA
- When Active – Greenbelt, MD

- **Coordination Procedures**

- Notify NOAA
- File an application with Commission
- 20-days for objection

# 1670-1675 MHz Service Rules

## Other Government Incumbents

- **Radioastronomy**

- Locations listed in US311
- Protect on a case-by-case basis

- **Radiosondes**

- National Weather Service locations listed in R&O at Appendix D
- Protect on a case-by-case basis