



# VHF Spectrum Congestion Options

AFC Fall 2016 Meeting – Austin, TX

# VHF Spectrum Congestion



- All U.S. assignments are considered congested.
- The U.S. North Eastern region is nearly out of available frequencies to assign.
- All unused frequencies need to returned to the frequency pool for reassignment as needed.
- Total number of assignments = over 6,150
  - 32 are secondary to Canada (90% of Canadian assignments are within 100 miles of the US border). – XXX.X75 MHz
  - 32 are US primary. – XXX.X25 MHz
  - 64 are shared US/CA. –XXX.X50 MHz

# Possible Assignment Options

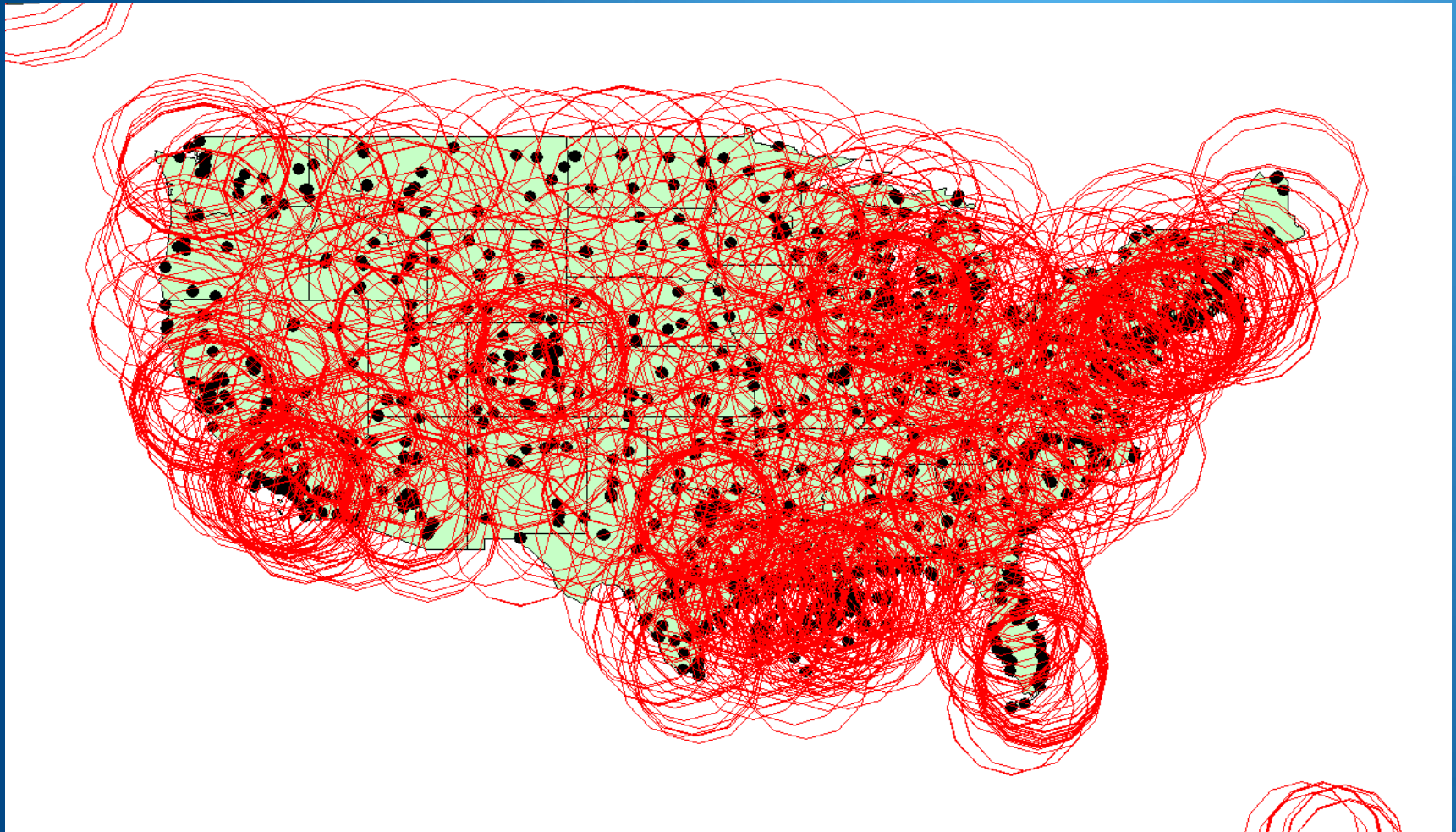


- Make no changes to existing assignment policies and procedures
  - Low Level assignments at 300 nm, currently investigating using 250 nm for coordinating
  - Additional sharing of usable spectrum
- Return of unused or unneeded frequencies
  - Determine what frequencies are actually being used
  - Availability determined via spectrum monitoring, station inspections and published arrivals and departures
  - Unused frequencies should be returned to the frequency pool for reuse
- 8.33k frequency assignments
  - Ask new users if they are capable of accepting an 8.33k channel assignment on the coordination form



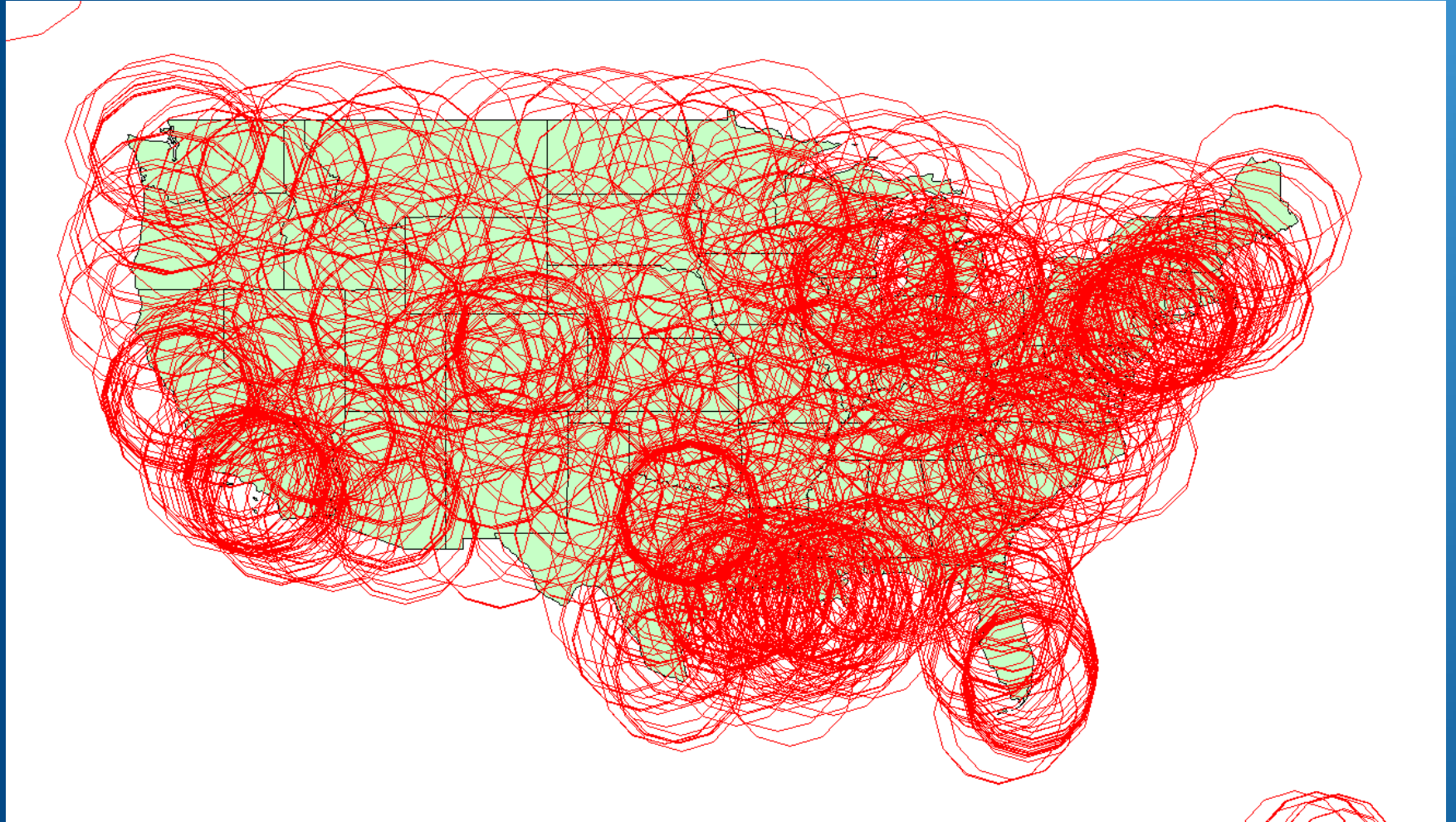
# Voice and Data combined

6,192 assignments (128 channels)



# ASRI Voices Stations

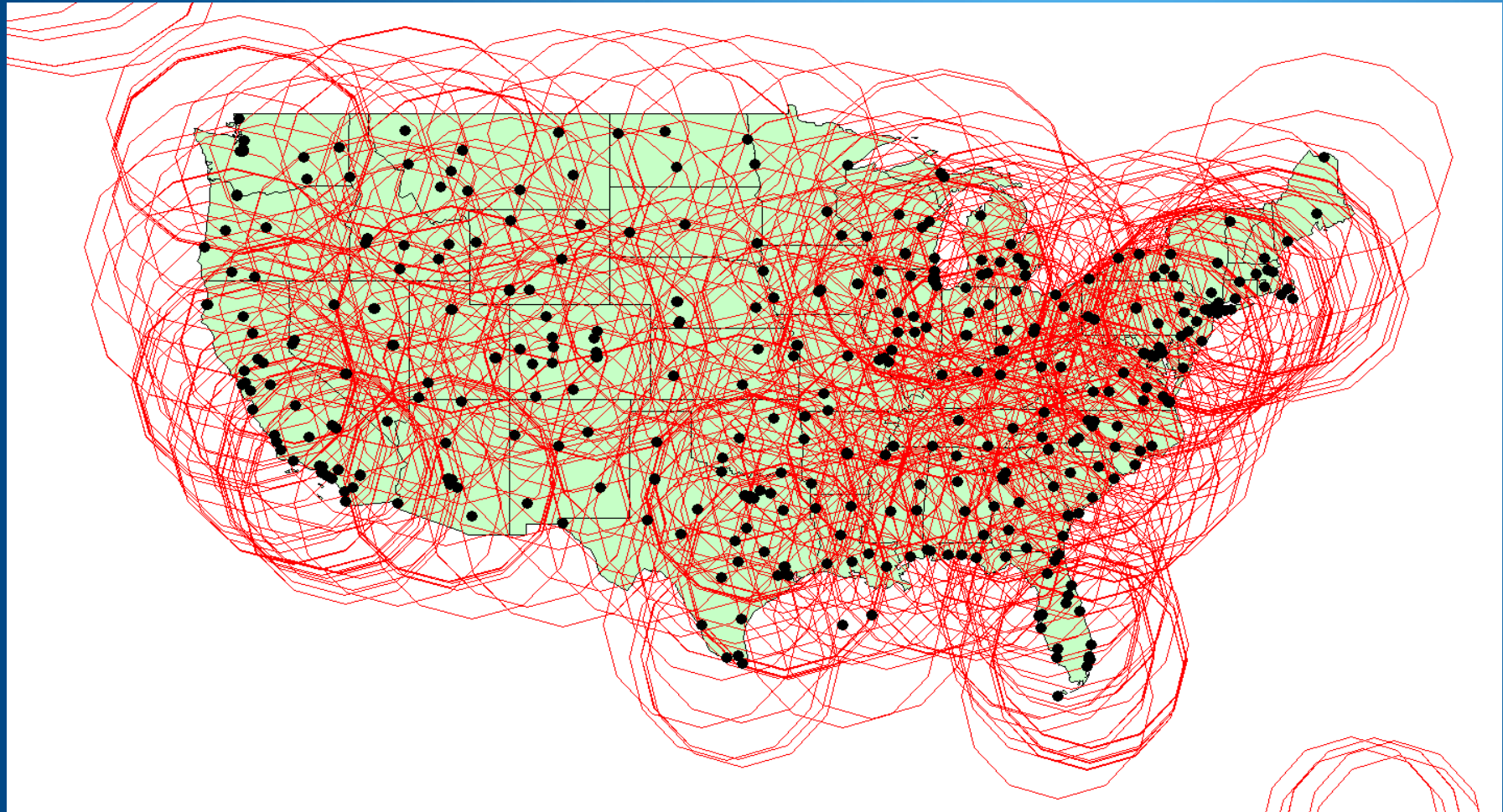
3986 assignments (119 channels)





# ACARS Combined

1240 assignments (9 channels)



# Questions for AFC Membership



- What/when is the pain point for AES VHF users?
- Level of existing and planned 8.33k capability?
- Thoughts on possible future options for ASRI?



# Questions?