



ASRI RF Interference Reports

AFC Winter 2016 Meeting – Albuquerque, NM

ASRI RF Interference Report



- This is a description of all radio frequency interference reported via ASRI website between October 2015 to March 2016.
- We would like to acknowledge the outstanding help of the FAA, FCC, Airlines, FBO's and Rockwell Collins (ARINC) in the resolution of these problems.

UPS@ SDY

October 2015



- Intermittent ACARS bursts reported on 10/13/2015.
- Problems continues with squelch set very high
- SITA made a frequency change on 10/12/15
- SITA fell back to old frequency.
- No changes to UPS radio configurations until after busy season.
- Issue is still being worked on.
- Case open.

ERA @ Houma, LA

October 2015



- Continuous interference heard early mornings until about 11 am
- Sounds like interference from an electric motor mixed with conversations related to marine vessel maintenance.
- Began on October 14th, 2015
- As of November 15th 2015 waiting on FCC to investigate.
- ERA believes issue has gone, no resent reports.
- Case closed.



- Data burst received over 800 MHz console speaker - not received over actual talk groups
- Contacted ARINC, and tested by keying up one ACARS channel at a time and they could duplicate any ACARS noise.
- COS technicians installed RF chokes to the wirelines for the console speakers, this seems to have taken care of the issue, no more noise.
- Case closed



- Constant receiver desense reported on VDL channel on High Mountain site, interference has lasted for at least 3 months.
- Began when Broadcast Station installed new replacement Transmitter.
- ASRI worked with Broadcast Station to resolve interference.
- KTKN installed additional filters to correct the interference.
- Case closed



- Reported hearing constant noise, squelch break, for months.
- FAA believes this may be coming from the ARINC ACARS site and would like to shut down the radios for 30 minutes to test.
- ASRI provided contact info to the FAA to do testing at AVL with ARINC.
- FAA technician tested with ARINC and could not duplicate RFI.
- Case closed

ARINC @ DFW

November 2015



- Momentary interference, (one second or less) as the transmitter keys up to send data
- When the 130.025 MHz transmitter keys it throws up spurs, one of which is on 128.250MHz, the FAA Control Tower Clearance Delivery frequency. It comes in as a squealing modem type noise.
- ARINC replaced faulty radio and confirmed normal operation with the FAA and FCC.
- Case closed.

EL AL Airline @ JFK

November 2015



- EL AL reports of constant data bursts on 131.750 MHz.
- This started when SITA changed their ACARS frequency from 136.575 MHz to 131.650 MHz, SITA and EL AL antennas are on same antenna farm.
- SITA and EL AL are currently working on a resolution at this time.
- Case open.

Dow Corning Corp @ MBS

November 2015



- Dow Corning reported intermittent data bursts on 131.350 MHz that occur during busy times at the airport, Holidays.
- Appears to be ACARS bursts from ARINC ground station.
- Contacted ARINC to check radio equipment.
- ARINC could not duplicate or verify RFI – ACARS equipment checked good.
- Case open.

Delta @ DAL

December 2015



- Atlanta radio reports of intermittent bursts of interference with voices in the background.
- Delta suspected it started when AA installed some new Park Air transmitters but these radio checked good.
- Delta thought they heard AA traffic but later heard what sounded like ATC traffic.
- ARSI reported and sent audio recording to the FAA, they determined it was not the FAA equipment.
- ASRI checking into possible IM at this site.
- Case open.

Delta @ Midland, TX

December 2015



- Reports of short bursts of data or white noise, having for at least 3 months.
- Noticed interference with DAL frequency 129.550 MHz as well as Deer Horn Aviation frequency 130.050 MHz.
- ACARS had been relocated to a site that was collocated with Delta and the Deer Horn radios.
- ARINC removed the two co-located ACARS transmitters.
- Case closed.



- Reports audible “beep” from ACARS on ATC 132.100 MHz.
- Happens intermittently, sometimes in 30 minute intervals. Other times it only appears for a moment.
- FAA states that the data hits only a couple times a month and only when aircraft are at gates on terminal B.
- Suspects RFI may be coming from RJ type aircraft.
- FAA still investigating.
- Case open.

UPS near JAX

January 2016



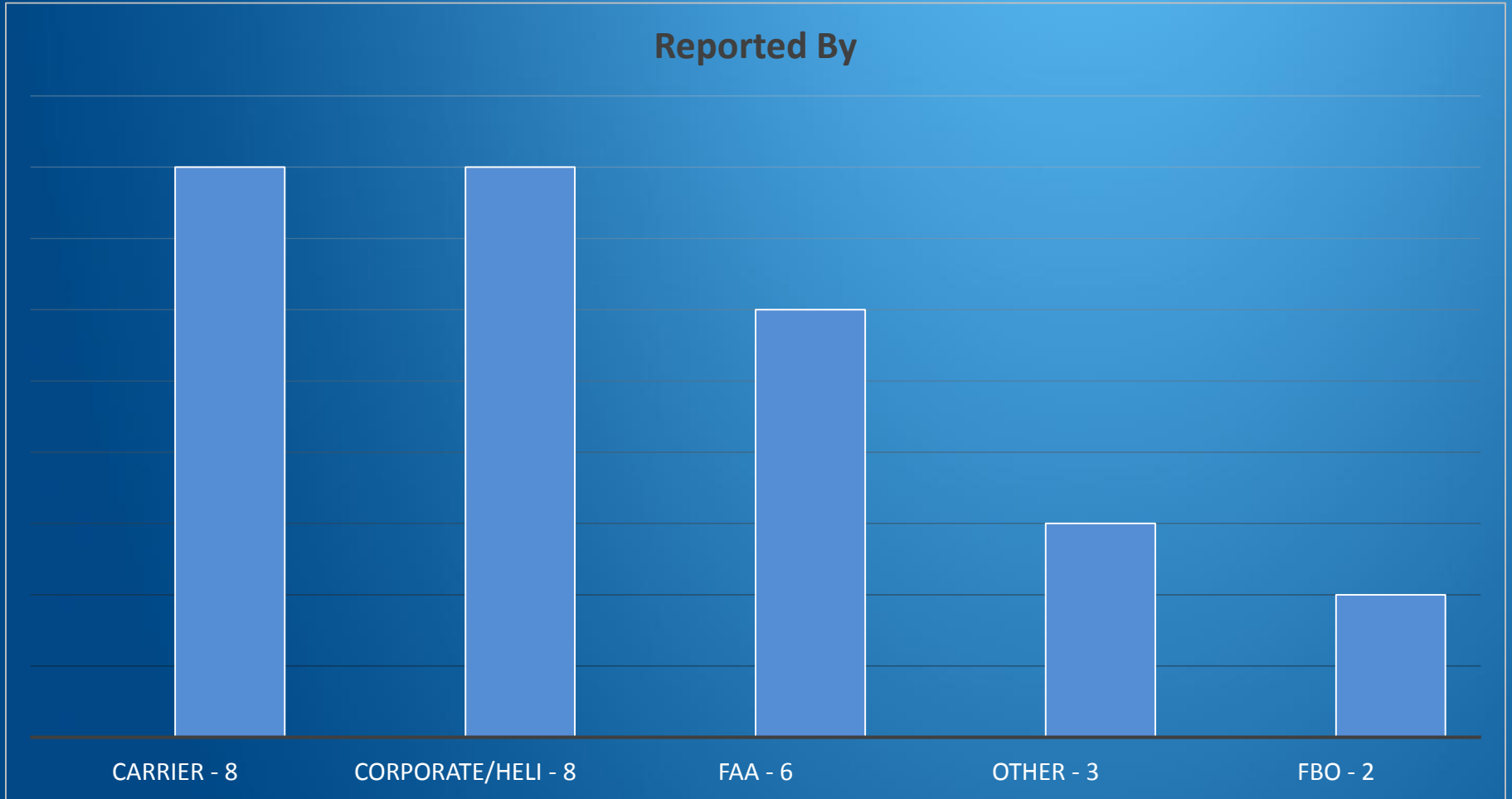
- Talk radio being heard on frequency 129.425 MHz north of Orlando, FL.
- Interference happening for at least 1 month.
- Confirmed by UPS RF engineer on 1/7/16
- Possible interference narrowed down to spurious transmission on 95.5 MHz, WJTK Columbia City, FL.
- Broadcaster found faulty transmitter WJTK and took off air for repair.
- UPS confirmed the RFI is no longer present.
- Case closed.

2015 RFI Summary



- There were 26 reported RFI issues received in 2015.
- 22 issues where resolved
- 4 issues remain open

Organizations reporting RFI 2015



RFI Resolution 2015

