

San Tan Educational Media Channel Change Request

On February 13th The FCC Issued the Call Sign KUKQ-LP to San Tan Educational Media (STEM) (Facility ID: 192016 Channel 294). During the past couple of months STEM has been conducting test programming. During the test programming STEM has noticed severe 1st Channel interference from KKMR (Channel 293). STEM was unable to receive KUKQ-LP on our Studio Monitor utilizing an outdoor antenna. Studio test was conducted 4.4 KM West of the Transmitting Location. Using an indoor antenna had the same results. STEM conducted car audio tests with 11 car radios. The results: Of that test 6 radios did not receive interference from KKMR. 5 received some sort of 1st channel interference. Best performer was a 2008 Hyundai Sonata with a Pioneer avh-p4300dvd. In this Vehicle KUKQ-LP Could be listened to with no interference even if listening until signal faded out completely. Worst Performer was a 2002 Suzuki XL-7 with a Stock Factory Radio. Within 3.9 KM of KUKQ-LP Traveling West the interference began from KKMR. At 5 KM The interference overtook the KUKQ-LP Signal Completely. Traveling East the interference began at 5.2 KM and South began at 4.2 KM. STEM found no issues with 2nd Channel Interference in regards to our Second Channel Waiver. STEM found no interference from KUKQ-LP towards KKMR in any test.

STEM has been looking for a solution to eliminate the interference issue. From alternative sites for our current channel 294 to exploring interference reducing channel changes. STEM respectfully requests a channel change to channel 256. Channel 256 clears co-channel and 1st channel spacing. Channel 256 is Short Spaced to KMVP-FM (2nd Channel Exhibit Attached). To reduce the interference overlap zone STEM proposes to move 5.5 KM Northwest to a hilltop location that will provide more than adequate protection for KMVP-FM. STEM believes there should be no received Co-Channel or 1st Channel interference to KUKQ-LP as there are no Full Power Stations operating on first channels locally. We respectfully request the FCC approve the Channel Change to Channel 256 to reduce interference.

Sincerely,

Christopher Shon White
President/CEO
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