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Request for Extension of Engineering STA

KHIT(AM) 1450 kHz

Facility ID 38458

Reno, Nevada

Lotus Radio Corp. ("Lotus")

On May 18, 2018, Lotus was granted Special Temporary Authority ("STA") to operate KHIT at reduced power due to high sideband VSWR resulting from the filters used to combine KHIT with three other stations into a common antenna system. Since that time, engineers from Hatfield & Dawson developed a design to compensate for the stray reactances believed to be the source of the problem. Unfortunately this proved unsuccessful, likely due to the tight spacing inside the cabinets containing the combining filters and the use of traps that are common to more than one station. Lotus has obtained and is evaluating quotes for several revised configurations of the combining networks, however these configurations will require expansion of the brick walls that surround the bases of the towers. The towers are on land under control of the US Forest Service, so approval of the expansion must be obtained from that agency. An application was filed with the USFS in 2019, but to date has not been acted on.

Lotus therefore respectfully requests further extension of BESTA-20210909AAD for a period of 180 days, to allow continued operation at reduced power using the licensed antenna system while options for reconfiguration are evaluated and the process for obtaining approval from the Forest Service continues.

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