

**Exhibit to KYOT Application for  
Minor Change  
Phoenix, Arizona  
Facility ID: 18648**

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This exhibit presents the technical details of a change in antenna location to a new tower which is to be located on the same telecommunications site (South Mountain Phoenix) as the existing facility. The distance of this relocation is approximately 150 meters along a bearing of 109°T from the presently licensed location. No change in principal community, class, or channel is proposed.

**Antenna Location**

The proposed antenna for KYOT is to be mounted 78 meters above ground on the tower identified by antenna structure registration number 1308803.

**Spacing Compliance**

Attached as Figure 1 is a spacing study from the proposed antenna location indicating compliance with the Commission's Section 73.207. Station KOAI has elected spacing in accordance with 73.215, this short move increases the spacing to that facility.

**Beam Tilt**

This application includes -0.75° beam tilt. Attached as Figure 2 is the proposed vertical plane relative field pattern. Maximum radiated power is to be 100 kilowatts, with 96.6 kilowatts toward the horizon.

**Radio Frequency Radiation Study and Statement**

Upon completion of construction and during the equipment test period, we will make proper radiofrequency electromagnetic (RF) field strength measurements throughout the transmitter site area to determine if there are any areas that exceed the FCC guidelines for human exposure to RF fields. If necessary, appropriate marking, barriers and or fences will be erected at such distances and in such a manner as to prevent the exposure of humans to RF fields in excess of the FCC Guidelines (OET Bulletin No. 65, Edition 97-01, August 1997).

## **Figures and Attachments**

### Figure 1 - Antenna Location Spacing Study

Call	Channel	Location	Azi	Dist	FCC	Margin
KYOT_*	LIC 238C	Phoenix	AZ 354.3	0.07	289.5	-289.4
KOAI	LIC-N 236C	Sun City West	AZ 344.3	103.82	104.5	-0.7
AL4249	USE 236C	Sun City West	AZ 344.5	104.59	104.5	0.09
KCDQ	CP -Z 237C0	Tombstone	AZ 127.9	235.29	219.5	15.8
KCDQ	APP-Z 237C0	Tombstone	AZ 128.0	235.36	219.5	15.9
AL9377	--- 239A	Sonoita	SO 204.6	179.84	161.0	18.8
AL2339	USE 237C0	Tombstone	AZ 131.9	250.02	219.5	30.5
KPKR	LIC 239B1	Parker	AZ 299.7	223.21	192.5	30.7
KWKM	LIC 239C0	St. Johns	AZ 65.3	250.63	219.5	31.1
KOMR	LIC 292C2	Sun City	AZ 331.0	78.97	34.5	44.5
KLPX	LIC 241C	Tucson	AZ 143.6	149.37	104.5	44.9
KMXZ-FM	LIC 235C	Tucson	AZ 143.5	149.38	104.5	44.9
KKLD	LIC-N 240C0	Cottonwood	AZ 358.0	150.09	104.5	45.6
AL0031	VAC 239A	Sasabe	SO 166.6	216.70	161.0	55.7
AL9402	VAC 239B	Santa Cruz	SO 149.2	270.92	215.0	55.9
AL0613	VAC 237C	Caborca	SO 181.8	293.32	228.0	65.3
R17224	VAC 239A	Nogales	SO 154.6	247.36	161.0	86.4
AL4174	VAC 238B	San Felipe	BN 226.2	365.62	270.0	95.6

Reference station has protected zone issue: Mexico

% = Station Fails minimum 73.215 spacings

All separation margins include rounding

Figure 2 - Vertical Plane Relative Field

