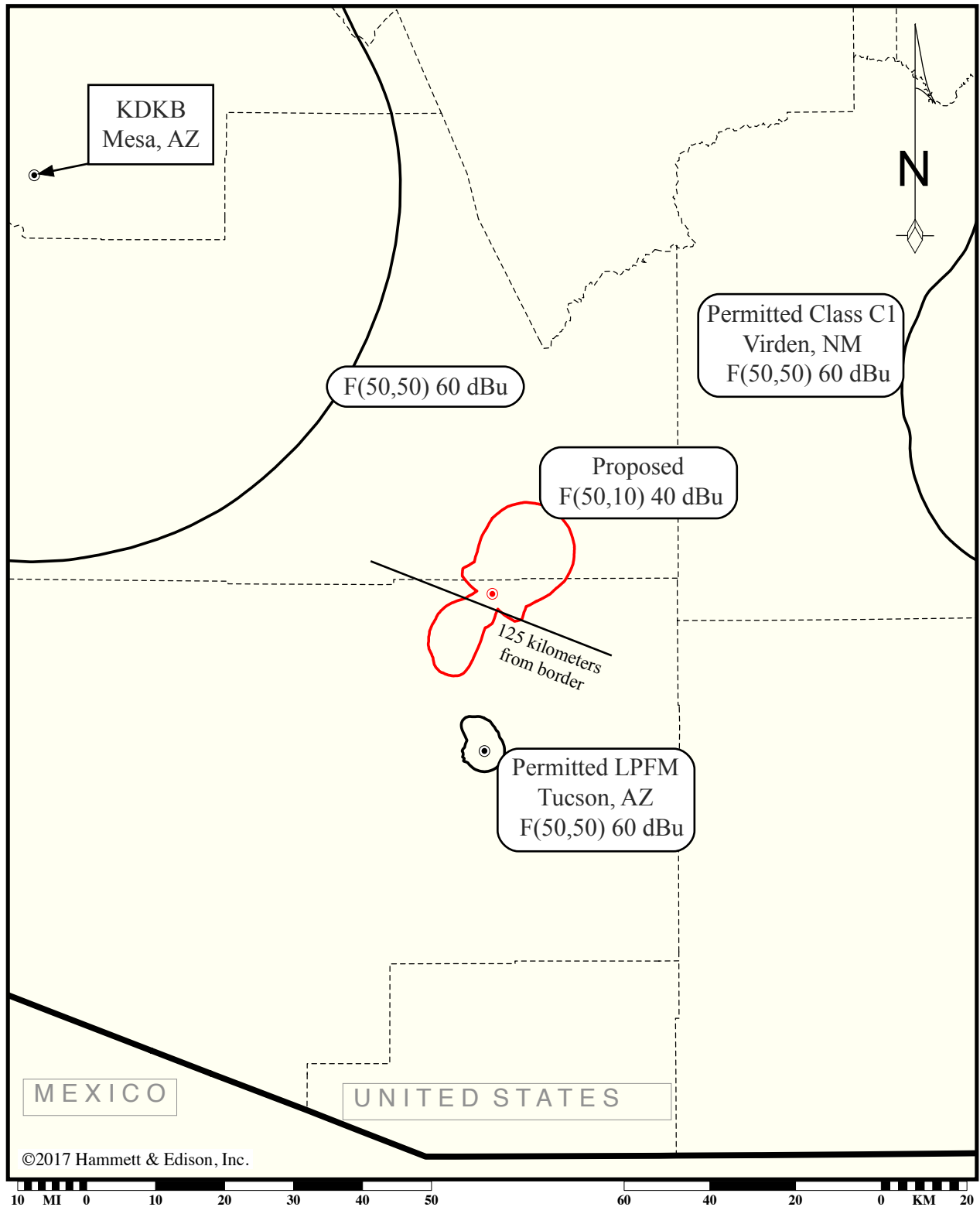


Radio Station KUAZ • 1550 kHz • Tucson, Arizona

**New FM Translator • Channel 227 • Catalina, Arizona
Co-Channel Station Protection**



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Lambert conformal conic map projection. International and county lines shown taken from U.S. Census Bureau TIGER/Line 2010 data.

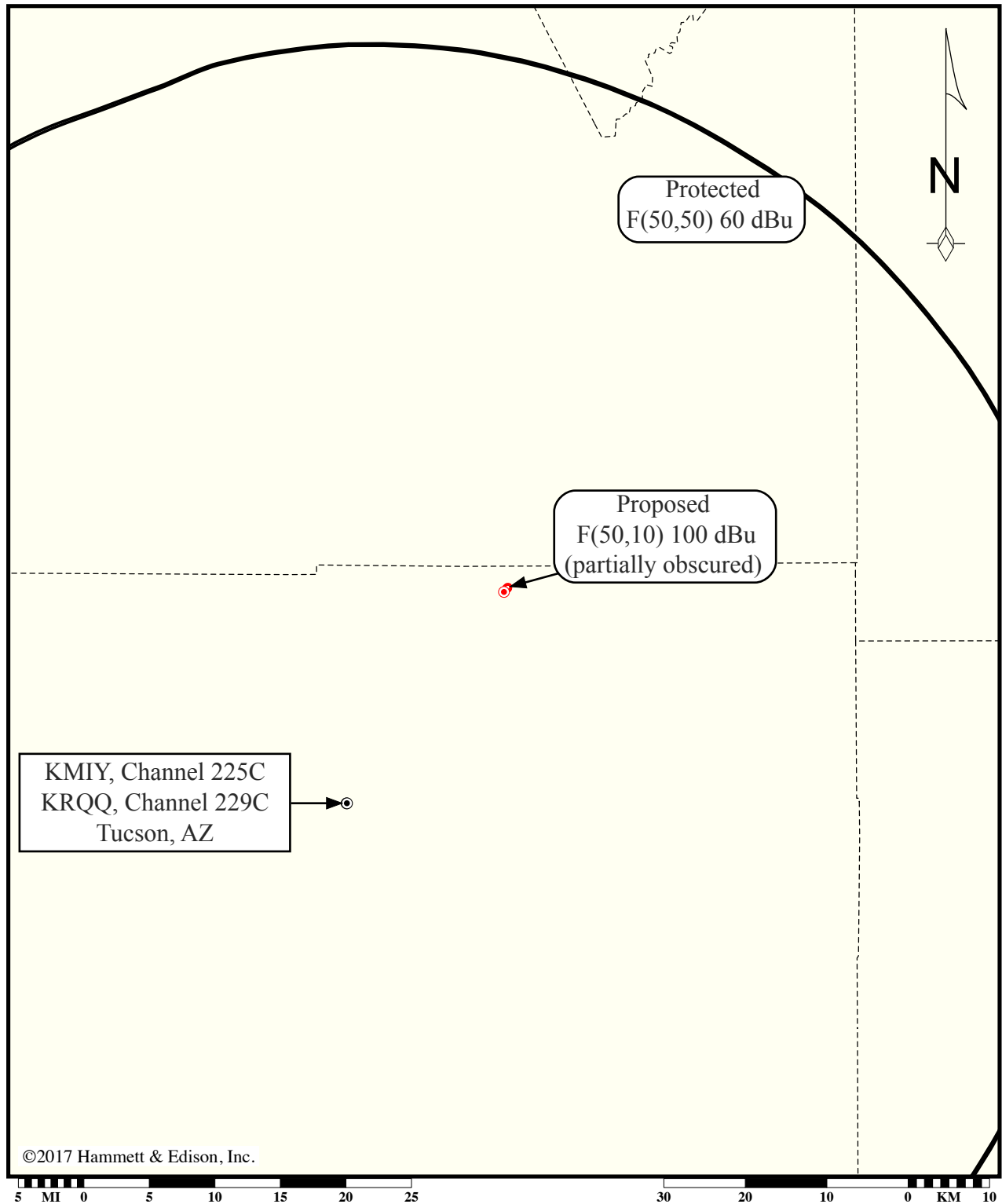


HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

December 1, 2017
Exhibit 13A

Radio Station KUAZ • 1550 kHz • Tucson, Arizona

**New FM Translator • Channel 227 • Catalina, Arizona
Second-Adjacent Station Protection**



Lambert conformal conic map projection. County lines shown taken from U.S. Census Bureau TIGER/Line 2010 data.



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

December 1, 2017
Exhibit 13B

Radio Station KUAZ • 1550 kHz • Tucson, Arizona New FM Translator • Channel 227 • Catalina, Arizona FM Interference Study

tvstudy v2.2.4 (Z2Qqz3)

Database: localhost
Station Data: CDBS FM 11/27/2017 (57)
Study: KUAZ FM translator
Model: Longley-Rice
Scenario: Channel 227
Start: 2017.11.30 14:48:46

Desired station	Service area		Terrain-limited		Interference-free	
Undesired station	Total interference		Unique interference			
K281CC 281D FX LIC BENSON, AZ	76.9	5,834	76.9	5,834	76.9	5,834
K281BO 281D FX LIC CLIFTON, AZ	0.0	0	0.0	0		
KWCX-FM 283A FM APP TANQUE VERDE, AZ	0.0	0	0.0	0		
KQTH 281A FM LIC TUCSON, AZ	0.0	0	0.0	0		
KXZK 279A FM LIC VAIL, AZ	0.0	0	0.0	0		
281B FS NUEVO CASAS GRANDES, CH	0.0	0	0.0	0		
NEW 281A FS AGUA PRIETA, SO	0.0	0	0.0	0		
282B FS NOGALES, SO	0.0	0	0.0	0		
NEW 227D FX APP CATALINA, AZ	60.4	16,651	60.4	16,651	60.4	16,651
K227AP 227D FX LIC COTTONWOOD, AZ	0.0	0	0.0	0		
KDKB 227C FM LIC MESA, AZ	0.0	0	0.0	0		
KMIY 225C FM LIC TUCSON, AZ	0.0	0	0.0	0		
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0		
KRQQ 229C FM LIC TUCSON, AZ	0.0	0	0.0	0		
KQTH 281A FM LIC TUCSON, AZ	0.0	0	0.0	0		
NEW 227C1 FM CP VIRDEN, NM	0.0	0	0.0	0		
227A FS CABORCA, SO	0.0	0	0.0	0		
XHSCAFM 227C FM CANANEA, SO	0.0	0	0.0	0		
K227AP 227D FX LIC COTTONWOOD, AZ	230.4	29,229	218.5	29,229	218.5	29,229
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0		
KAFF-FM 225C FM LIC FLAGSTAFF, AZ	0.0	0	0.0	0		
K228XO 228D FX LIC FLAGSTAFF, AZ	0.0	0	0.0	0		
KMGN 230C FM LIC FLAGSTAFF, AZ	0.0	0	0.0	0		
K227CS 227D FX LIC KINGMAN, AZ	0.0	0	0.0	0		
KDKB 227C FM LIC MESA, AZ	0.0	0	0.0	0		
KXAZ 227C2 FM LIC PAGE, AZ	0.0	0	0.0	0		
K228EA 228D FX LIC PAYSON, AZ	0.0	0	0.0	0		
K228DF 228D FX LIC PRESCOTT, AZ	0.0	0	0.0	0		
K280GH 280D FX LIC PRESCOTT, AZ	0.0	0	0.0	0		
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0		
KZON 280C1 FM LIC GILBERT, AZ	11348.8	2,810,401	10583.5	2,688,151	10475.8	2,588,156
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0		
KLNZ 278C FM LIC GLENDALE, AZ	0.0	0	0.0	0		
K280EH 280D FX LIC KINGMAN, AZ	0.0	0	0.0	0		
K280DL 280D FX LIC LAKE HAVASU CITY, AZ	0.0	0	0.0	0		
KDKB 227C FM LIC MESA, AZ	107.7	99,995	107.7	99,995		
K280FS 280D FX LIC NOTHING, AZ	0.0	0	0.0	0		
KEKI 280A FM CP PEACH SPRINGS, AZ	0.0	0	0.0	0		
K280GH 280D FX LIC PRESCOTT, AZ	0.0	0	0.0	0		
KQTH 281A FM LIC TUCSON, AZ	0.0	0	0.0	0		
280B FS CANANEA, SO	0.0	0	0.0	0		
280A FS SAN FRANCISQUITO, SO	0.0	0	0.0	0		
KXTW-LP 224L1 FL LIC GLOBE, AZ	191.2	14,814	191.2	14,814	191.2	14,814
K224CJ 224D FX LIC PHOENIX, AZ	0.0	0	0.0	0		



Radio Station KUAZ • 1550 kHz • Tucson, Arizona
New FM Translator • Channel 227 • Catalina, Arizona
FM Interference Study

Desired station	Service area		Terrain-limited		Interference-free	
Undesired station	Total interference		Unique interference			
KDKB 227C FM LIC MESA, AZ	24053.6	4,154,768	21485.7	4,146,995	20835.8	3,977,736
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0	0.0	0
K227AP 227D FX LIC COTTONWOOD, AZ	0.0	0	0.0	0	0.0	0
KDWR-LP 225L1 FL LIC DESERT RIDGE, AZ	0.0	0	0.0	0	0.0	0
KZON 280C1 FM LIC GILBERT, AZ	649.9	169,259	649.9	169,259	649.9	169,259
KXTW-LP 224L1 FL LIC GLOBE, AZ	0.0	0	0.0	0	0.0	0
K227CS 227D FX LIC KINGMAN, AZ	0.0	0	0.0	0	0.0	0
K228EA 228D FX LIC PAYSON, AZ	0.0	0	0.0	0	0.0	0
K224CJ 224D FX LIC PHOENIX, AZ	0.0	0	0.0	0	0.0	0
K229DB 229D FX LIC PHOENIX, AZ	0.0	0	0.0	0	0.0	0
K228DF 228D FX LIC PRESCOTT, AZ	0.0	0	0.0	0	0.0	0
K280GH 280D FX LIC PRESCOTT, AZ	0.0	0	0.0	0	0.0	0
KWSS-LP 230L1 FL LIC SCOTTSDALE, AZ	0.0	0	0.0	0	0.0	0
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0	0.0	0
K225CL 225D FX LIC WICKENBURG, AZ	0.0	0	0.0	0	0.0	0
NEW 229C3 FM CP WICKENBURG, AZ	0.0	0	0.0	0	0.0	0
K227BN 227D FX LIC BRAWLEY, CA	0.0	0	0.0	0	0.0	0
K227CW 227D FX LIC CALEXICO, CA	0.0	0	0.0	0	0.0	0
NEW 227C1 FM CP VIRDEN, NM	0.0	0	0.0	0	0.0	0
227A FS CABORCA, SO	0.0	0	0.0	0	0.0	0
XHSCAFM 227C FM CANANEA, SO	0.0	0	0.0	0	0.0	0
KMIY 225C FM LIC TUCSON, AZ	26510.1	1,109,785	21157.0	1,075,902	20976.2	1,074,070
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0	0.0	0
KDWR-LP 225L1 FL LIC DESERT RIDGE, AZ	0.0	0	0.0	0	0.0	0
KAFF-FM 225C FM LIC FLAGSTAFF, AZ	156.5	1,745	156.5	1,745	156.5	1,745
KXTW-LP 224L1 FL LIC GLOBE, AZ	0.0	0	0.0	0	0.0	0
K224CJ 224D FX LIC PHOENIX, AZ	0.0	0	0.0	0	0.0	0
K225BX 225D FX LIC QUARTZSITE, AZ	0.0	0	0.0	0	0.0	0
K223CI 223D FX LIC TUCSON, AZ	0.0	0	0.0	0	0.0	0
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0	0.0	0
KXZK 279A FM LIC VAIL, AZ	16.2	87	16.2	87	16.2	87
K225CL 225D FX LIC WICKENBURG, AZ	0.0	0	0.0	0	0.0	0
KWQR 223A FM LIC WILLCOX, AZ	0.0	0	0.0	0	0.0	0
KSCQ 225C2 FM LIC SILVER CITY, NM	8.1	0	8.1	0	8.1	0
225B FS NUEVO CASAS GRANDES, CH	0.0	0	0.0	0	0.0	0
XHRZFM 278B FM NOGALES, SO	0.0	0	0.0	0	0.0	0
225A FS URES, SO	0.0	0	0.0	0	0.0	0
NEW 227L1 FL CP TUCSON, AZ	96.9	120,922	96.9	120,922	68.7	91,771
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0	0.0	0
K227AP 227D FX LIC COTTONWOOD, AZ	0.0	0	0.0	0	0.0	0
KDKB 227C FM LIC MESA, AZ	28.3	29,151	28.3	29,151	28.3	29,151
KMIY 225C FM LIC TUCSON, AZ	0.0	0	0.0	0	0.0	0
KRQQ 229C FM LIC TUCSON, AZ	0.0	0	0.0	0	0.0	0
KQTH 281A FM LIC TUCSON, AZ	0.0	0	0.0	0	0.0	0
NEW 227C1 FM CP VIRDEN, NM	0.0	0	0.0	0	0.0	0
227A FS CABORCA, SO	0.0	0	0.0	0	0.0	0
XHSCAFM 227C FM CANANEA, SO	0.0	0	0.0	0	0.0	0
KRQQ 229C FM LIC TUCSON, AZ	26333.7	1,105,651	21060.3	1,072,023	20471.1	1,070,896
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0	0.0	0
K229DB 229D FX LIC PHOENIX, AZ	565.0	1,102	545.0	1,102	545.0	1,102
KRDE 231C1 FM LIC SAN CARLOS, AZ	0.0	0	0.0	0	0.0	0
KWSS-LP 230L1 FL LIC SCOTTSDALE, AZ	0.0	0	0.0	0	0.0	0
KJDB-LP 231L1 FL LIC SIERRA VISTA, AZ	0.0	0	0.0	0	0.0	0
KWCX-FM 283A FM APP TANQUE VERDE, AZ	24.2	25	24.2	25	24.2	25
K232FD 232D FX LIC TORTOLITA, AZ	0.0	0	0.0	0	0.0	0
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0	0.0	0
NEW 229C3 FM CP WICKENBURG, AZ	20.0	0	0.0	0	0.0	0
282B FS NOGALES, SO	0.0	0	0.0	0	0.0	0
232A FS SASABE, SO	0.0	0	0.0	0	0.0	0



Radio Station KUAZ • 1550 kHz • Tucson, Arizona
New FM Translator • Channel 227 • Catalina, Arizona
FM Interference Study

Desired station	Service area		Terrain-limited		Interference-free	
Undesired station	Total interference		Unique interference			
KQTH 281A FM LIC TUCSON, AZ	2222.4	854,656	2165.9	850,778	2161.9	850,778
K281CC 281D FX LIC BENSON, AZ	0.0	0	0.0	0		
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0		
K281BO 281D FX LIC CLIFTON, AZ	0.0	0	0.0	0		
KZON 280C1 FM LIC GILBERT, AZ	4.0	0	4.0	0		
KWCX-FM 283A FM APP TANQUE VERDE, AZ	0.0	0	0.0	0		
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0		
KXZK 279A FM LIC VAIL, AZ	0.0	0	0.0	0		
NEW 281A FS AGUA PRIETA, SO	0.0	0	0.0	0		
282B FS NOGALES, SO	0.0	0	0.0	0		
281B FS PUERTO LOBOS, SO	0.0	0	0.0	0		
NEW 227C1 FM CP VIRDEN, NM	8784.6	39,333	7116.4	39,246	7064.3	39,230
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0		
K281BO 281D FX LIC CLIFTON, AZ	0.0	0	0.0	0		
K227AP 227D FX LIC COTTONWOOD, AZ	0.0	0	0.0	0		
KDKB 227C FM LIC MESA, AZ	0.0	0	0.0	0		
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0		
K227CB 227D FX LIC GALLUP, NM	0.0	0	0.0	0		
KSCQ 225C2 FM LIC SILVER CITY, NM	0.0	0	0.0	0		
XHSCAFM 227C FM CANANEA, SO	52.1	16	52.1	16		
227A FS CABORCA, SO	16.0	16,794	16.0	16,794	16.0	16,794
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0		
KDKB 227C FM LIC MESA, AZ	0.0	0	0.0	0		
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0		
XHSCAFM 227C FM CANANEA, SO	0.0	0	0.0	0		
226C FS PUERTO LIBERTAD, SO	0.0	0	0.0	0		
XHSCAFM 227C FM CANANEA, SO	6305.1	129,428	4589.5	64,930	4565.7	64,928 (in U.S.)
K281CC 281D FX LIC BENSON, AZ	0.0	0	0.0	0		
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0		
KDKB 227C FM LIC MESA, AZ	23.9	2	23.9	2		
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0		
NEW 227C1 FM CP VIRDEN, NM	0.0	0	0.0	0		
NEW 281A FS AGUA PRIETA, SO	0.0	0	0.0	0		
227A FS CABORCA, SO	0.0	0	0.0	0		
280B FS CANANEA, SO	0.0	0	0.0	0		
XHSCAFM 227C FM CANANEA, SO	15884.5	350,068	12579.8	345,209	12575.9	345,209
NEW 227D FX APP CATALINA, AZ	0.0	0	0.0	0		
KDKB 227C FM LIC MESA, AZ	4.0	0	4.0	0		
NEW 227L1 FL CP TUCSON, AZ	0.0	0	0.0	0		
NEW 227C1 FM CP VIRDEN, NM	0.0	0	0.0	0		
NEW 281A FS AGUA PRIETA, SO	0.0	0	0.0	0		
227A FS CABORCA, SO	0.0	0	0.0	0		
280B FS CANANEA, SO	0.0	0	0.0	0		
280A FS SAN FRANCISQUITO, SO	15.8	5	7.9	5	7.9	5
KZON 280C1 FM LIC GILBERT, AZ	0.0	0	0.0	0		
280B FS CANANEA, SO	0.0	0	0.0	0		

