Study created: 2018.05.12 22:31:08

Study build station data: LMS TV 2018-05-11

Proposal: K21CX-D D35 LD LIC TUCSON, AZ
File number: Proposed displacement ch35
Facility ID: 71623
Station data: User record
Record ID: 189
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K20FO	N20z	TX	LIC	SIERRA VISTA, AZ	BLANK0000021597	125.9 km
No	K21GC	N21-	TX	LIC	SAFFORD, AZ	BLTT20060215AAV	85.3
No	KCOS-LP	N28-	TX	LIC	PHOENIX, AZ	BLTTL19990325JD	147.8
Yes	KUVE-DT	D34	DT	CP	GREEN VALLEY, AZ	BLANK0000034005	0.0
No	KVPA-LD	D34	LD	APP	PHOENIX, AZ	BLANK0000053951	162.2
No	K21GC	D34	LD	CP	SAFFORD, AZ	BDISDTT20090630AAH	85.3
No	K42AC-D	D35	LD	APP	COTTONWOOD, ETC., AZ	BLANK0000035577	283.9
No	K35FH	N35+	TX	LIC	FLAGSTAFF, AZ	BLTT19990706JG	324.8
No	NEW	D35	LD	APP	PARKER, AZ	BNPDTL20100514AEI	341.2
Yes	KFPH-CD	D35	DC	LIC	PHOENIX, AZ	BLDTA20110405AAY	162.0
No	K35LH-D	D35	LD	CP	SAN SIMON, AZ	BNPDTL20100504AMU	139.9
No	KESE-LP	N35	TX	LIC	YUMA, AZ	BLTTL20001117AAJ	361.2
No	K35JR-D	D35	LD	LIC	ARREY & DERRY, NM	BLDTT20110902AAQ	332.4
No	K35HB-D	D35	LD	LIC	DEMING, NM	BLDTT20110824ABW	292.9
No	KFTU-DT	D36	DT	LIC	DOUGLAS, AZ	BLCDT20090616ABO	125.9
No	KAZT-CD	D36	DC	LIC	PHOENIX, AZ	BLDTA20100120ACL	161.9
No	NEW	D36	LD	APP	SIERRA VISTA, AZ	BDCCDTL20061003AFJ	125.8
No	KUVE-CD	D36-	DC	CP	TUCSON, AZ	BLANK0000034324	42.0

No non-directional AM stations found within 0.8 km
No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
Mask: Full Service

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   Latitude:  32 24 54.00 N (NAD83)
  Longitude: 110 42 56.10 W
Height AMSL: 2640.0 m
       HAAT: 0.0 m
   Peak ERP: 9.20 kW
    Antenna: Kathrein 75010326 Elliptical panel 1x2 215.0 deg
Elev Pattrn: Kathrein 75010326
  Elec Tilt: 3.30

50.8 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg  0.026 kW  1075.1 m   34.6 km
 45.0      0.011     1306.7     30.0
 90.0      0.019     1317.4     34.2
135.0      0.057     1030.3     39.1
180.0       2.83     1236.3     67.8
225.0       8.51     1344.4     78.3
270.0      0.834      743.9     51.8
315.0      0.004      787.2     20.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 1105 m

Distance to Canadian border: 1843.3 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 120.2 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 135.1 degrees   Distance: 142.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 28.2 degrees   Distance: 985.7 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%
No IX check failures found.
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