

June 2011
New FM Channel 275A
Ajo, Arizona
Allocation Study

The applicant was the winning bidder for the Ajo Channel 295A allotment included in FM Auction #91. This application proposes to implement that allotment on non-adjacent (but same class) Channel 275A. A single allotment and transmitter site is proposed.

The attached spacing study shows that the proposed operation meets the domestic co-channel and adjacent channel spacing requirements for Class A stations as prescribed in §73.207 of the Commission's Rules.

The proposed site is short-spaced to a Mexican allotment on Channel 275B at El Golfo. An allocation study has been conducted in order to demonstrate equivalent protection to the Mexican allotment. Attached is an engineering study, conducted pursuant to the radial interpolation method set forth in the US-Mexico FM Agreement, which demonstrates that full protection is provided to the Mexican allotment.

Hatfield & Dawson Consulting Engineers

SEARCH PARAMETERS

FM Database Date: 110622

Channel: 275A 102.9 MHz
 Latitude: 32 23 16
 Longitude: 112 52 27
 Safety Zone: 32 km
 Job Title: AJO 275A

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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
	EL GOLFO SO -		275B 102.9	0.000 0.0	31-41-00 114-29-35	243.3	171.50 -6.50	178 SHORT
NEW-T APP	AVONDALE AZ BNPFT-30317JFL		275D 102.9	0.250 84.0	33-26-10 112-18-10	24.4	127.96 0.00	0 TRANS
NEW-T APP	PHOENIX AZ BNPFT-30317HKL		275D 102.9	0.010 DA 508.0	33-19-57 112-03-57	35.5	129.23 0.00	0 TRANS
NEW-T APP	PHOENIX AZ BNPFT-30313BEH		275D 102.9	0.250 83.0	33-26-10 112-18-10	24.4	127.96 0.00	0 TRANS
KCDX CP	FLORENCE AZ BPH-00402ABW		276C 103.1	42.000 DA 614.0	32-46-44 110-57-46	75.8	184.63 19.63	165 CLEAR

44444 END OF FM SPACING STUDY FOR CHANNEL 275 44444

New FM Channel 275A Ajo Proposed Transmitting Facility Contour Protection to Mexican Allotment El Golfo 275B

PROPOSED FACILITY

COMMUNITY : AJO, ARIZONA
CHANNEL : 275
CALL : NEW
CLASS : A
INTERNATIONAL : AA
COORDINATES : 32-23-16 N 112-52-27 W
RADIATING CENTER : 563 METERS AMSL (FOR 42M HAAT O/A)
AZIMUTH TO PROTECTED FACILITY: 243.3 DEGREES
STANDARD RADIALS : 225.0 HAAT= -24.4 M
: 270.0 HAAT= 88.6 M

INTERPOLATED RADIAL : 243.3 HAAT= **21.6 M**
30 METERS ASSUMED

RESTRICTED POWER : 6.000 KW AT 30 M ON 243.3 DEGREE RADIAL
INTERFERING CONTOUR : 34 DBU (50,10)
DISTANCE TO INTERFERING CONTOUR: 99.0 KM

PROTECTED ALLOCATION AT EL GOLFO, SONORA, MEXICO

COMMUNITY : **EL GOLFO, SONORA**
CHANNEL : 275
CALL : VACANT CHANNEL
CLASS : B
COORDINATES : 31-41-00 N 114-29-35 W
MAXIMUM FACILITY : 50 KW AT 150 M
RELATIONSHIP : COCHANNEL
PROTECTED CONTOUR : 54 DBU (50,50)
DISTANCE TO PROTECTED CONTOUR : 65.0 KM
(MAXIMUM PROTECTION FOR CLASS)

SUMMARY

DISTANCE TO PROTECTED CONTOUR (EL GOLFO) : 65.0 KM
DISTANCE TO RESTRICTED CONTOUR (AJO 275A) : 99.0 KM
TOTAL DISTANCE RESTRICTED PLUS PROTECTED : 164.0 KM
ACTUAL SPACING : 171.5 KM

CLEARANCE 7.5 KM
NO OVERLAP OF PROTECTED AND INTERFERING CONTOURS
WITH NO POWER RESTRICTION BELOW MAX CLASS A POWER
AT THIS 8-RADIAL HAAT