

**May 2015
KPNG(FM) Channel 204C3
Chandler, Arizona
Allocation Study**

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

Individual stations were examined to confirm the lack of prohibited contour overlap as prescribed in §73.509 of the Commission's Rules. The attached allocation study exhibits demonstrate requisite contour protection for the following domestic stations:

Cochannel:	KNAU	204C Flagstaff
First-adjacent:	KLKA	203C1 Globe
Second-adjacent:	KNAI	202C1 Phoenix
	KPHF	202C1 Phoenix
	KLVK	206C0 Fountain Hills

Mexican Short-Spacings

The proposed facility is short-spaced to a Mexican allotment on Channel 204B at Sasabe. 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.

TV Channel 6

Section 73.525 of the Commission's Rules specifies a threshold distance of 235 kilometers for FM stations operating on Channel 204. There is no TV Channel 6 station located within this threshold distance.

**KPNG Channel 204C3 Chandler Proposed Transmitting Facility
Contour Protection to Mexican Station/Allotment Sasabe 204B**

PROPOSED FACILITY

COMMUNITY : CHANDLER, ARIZONA
CHANNEL : 204
CALL : KPNG
CLASS : C3
INTERNATIONAL : B1
COORDINATES : 33-00-14 N 111-58-53 W
RADIATING CENTER : 503 METERS AMSL (FOR 113M HAAT O/A)
AZIMUTH TO PROTECTED FACILITY: 166.3 DEGREES
STANDARD RADIALS : 135.0 HAAT= 107.6 M
: 180.0 HAAT= 112.5 M

INTERPOLATED RADIAL : 166.3 HAAT= **111.0 M**

RESTRICTED POWER : 4.850 KW AT 111 M ON 166.3 DEG RADIAL
INTERFERING CONTOUR : 34 DBU (50,10)
DISTANCE TO INTERFERING CONTOUR: 109.58 KM

PROTECTED ALLOCATION AT SASABE, SONORA, MEXICO

COMMUNITY : **SASABE, SONORA**
CHANNEL : 204
CALL : VACANT CHANNEL
CLASS : B
COORDINATES : 31-28-19 N 111-32-39 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 (SASABE) : 65.00 KM
DISTANCE TO RESTRICTED CONTOUR (KPNG) : 109.58 KM
TOTAL DISTANCE RESTRICTED PLUS PROTECTED : 174.58 KM
ACTUAL SPACING : 175.21 KM

**NO OVERLAP OF PROTECTED AND INTERFERING CONTOURS
CLEARANCE 0.63 KM**

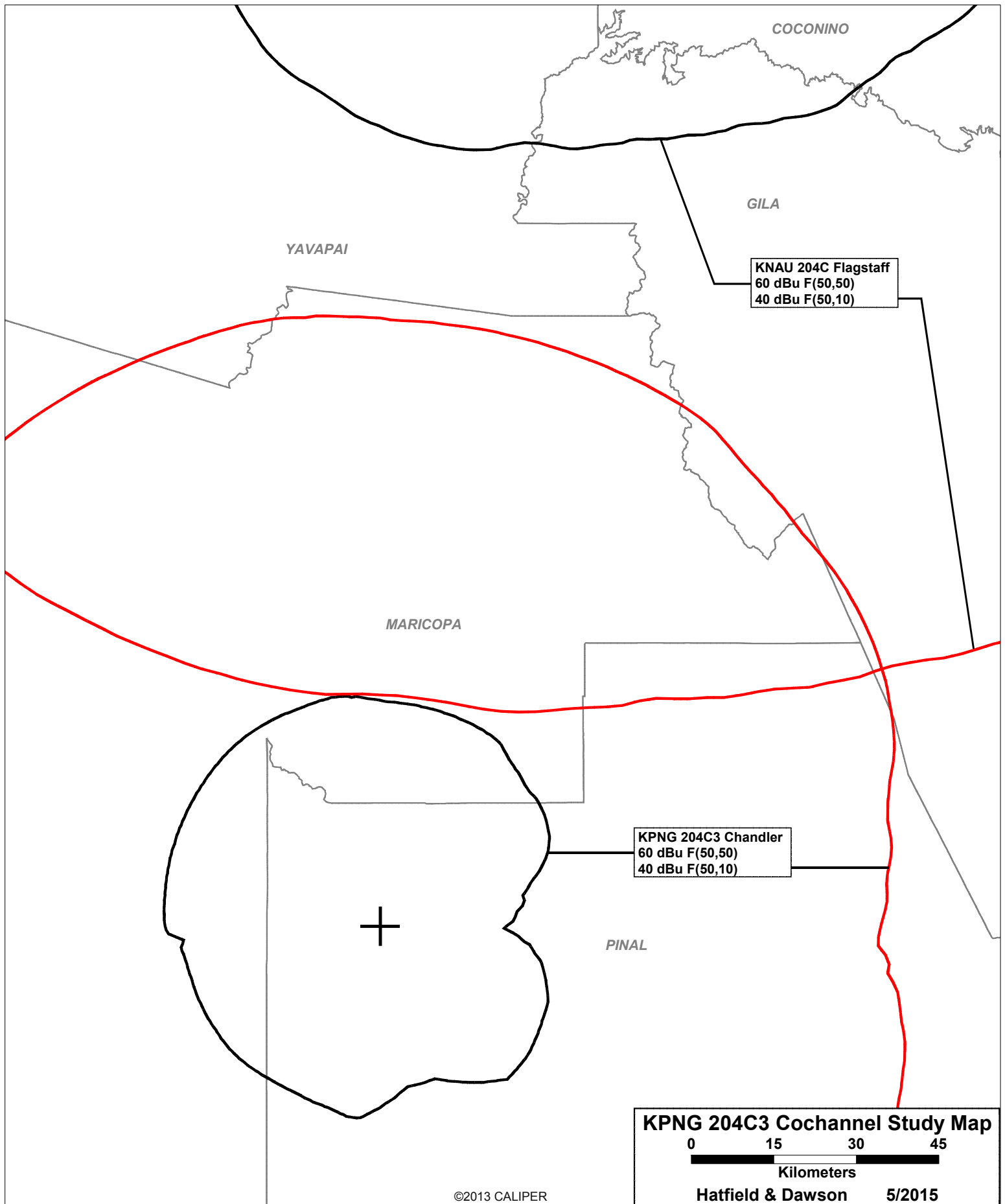

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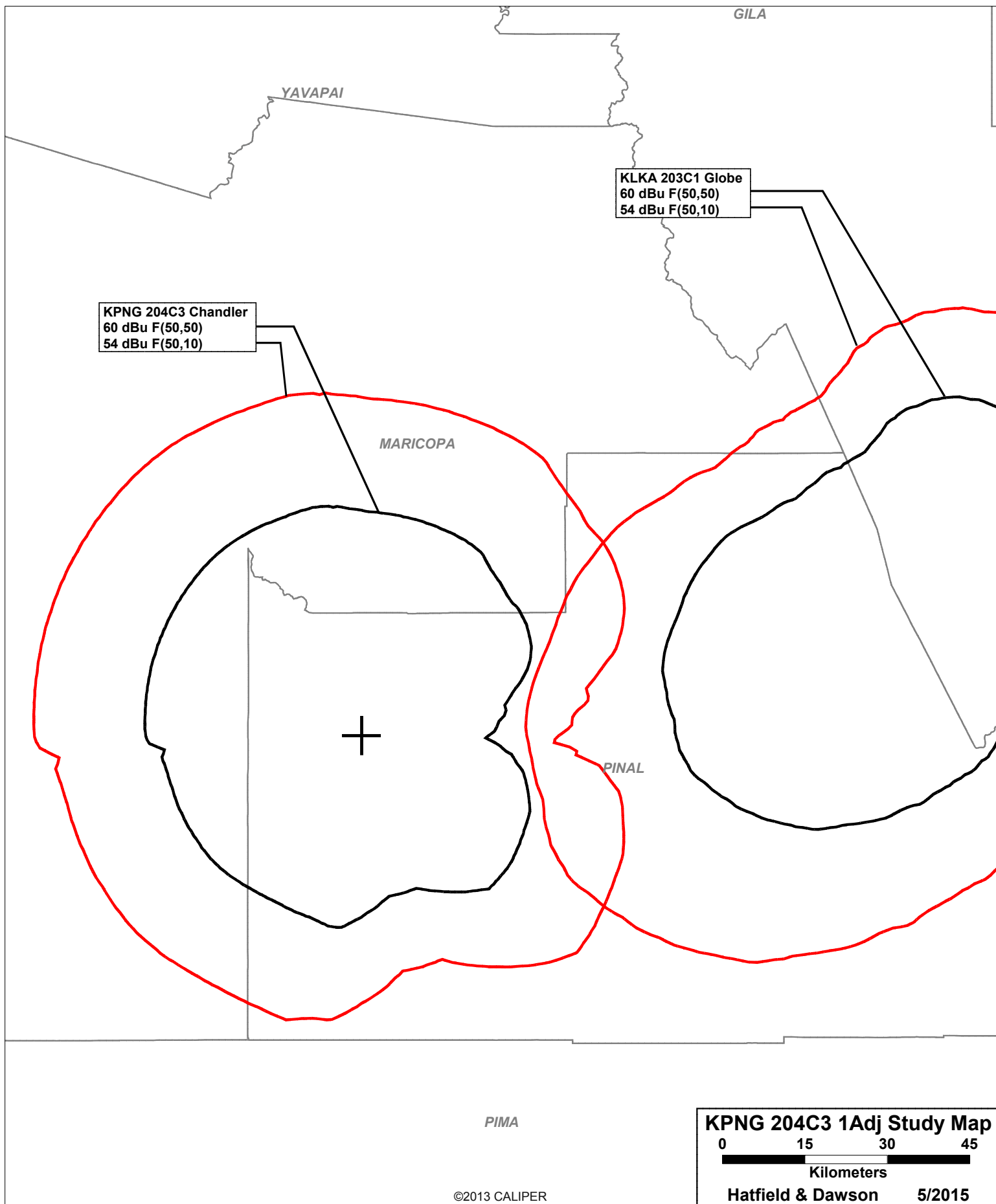
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SEARCH PARAMETERS                               FM Database Date: 150504
Channel: 204C3      88.7 MHz                      Page 1
Latitude: 33 0 14
Longitude: 111 58 53
Safety Zone: 50 km
Job Title: KPNG 204C3 CHANDLER

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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)
KLTU LIC	MAMMOTH AZ	BLED-20716ADD	201C1 88.1	16.000 591.0	32-14-57 111-06-57	135.8	116.63 40.63	76 CLEAR
KNAI LIC	PHOENIX AZ	BLED-920121KC	202C1 88.3	22.500 304.0	33-35-47 112-05-29	351.2	66.51 -9.49	76 SHORT
KPHF LIC	PHOENIX AZ	BLED-990716KB	202C1 88.3	22.500 297.0	33-35-47 112-05-31	351.2	66.51 -9.49	76 SHORT
KLKA LIC	GLOBE AZ	BMLD-10427AAD	203C1 88.5	1.500 910.0	33-17-55 110-50-28	72.5	111.29 -32.71	144 SHORT
	SASABE SO -		204B 88.7	0.000 0.0	31-28-19 111-32-39	166.3	174.80 -36.20	211 SHORT
NOTE: PER CDBS THESE ARE THE CORRECT COORDINATES FOR SASABE 204B. COORDINATES CORRECTED BY LETTER DATED 5 OCTOBER 2004.								
	SASABE SO -		204B 88.7	0.000 0.0	31-28-00 111-32-50	166.4	175.30 -35.70	211 SHORT
KPNG CP	CHANDLER AZ	BNPED-71016AGQ	204C1 88.7	100.000 50.0	32-49-51 112-08-02	216.5	23.91 -187.09	211 SHORT
KNAU LIC	FLAGSTAFF AZ	BLED-91014AAT	204C 88.7	100.000 445.0	34-58-07 111-30-24	11.2	222.30 -14.70	237 SHORT
K205CI LIC	PHOENIX AZ	BLFT-941109TJ	205D 88.9	0.010 290.0	33-35-47 112-05-29	351.2	66.51 0.00	0 TRANS
KAIC LIC	TUCSON AZ	BLED-70124AKJ	205A 88.9	1.800 8.0	32-36-56 110-38-38	108.7	132.46 43.46	89 CLEAR
KLVK LIC	FOUNTAIN HILLS AZ	BLED-00720AIX	206C0 89.1	30.000 703.0	33-35-33 112-34-49	319.8	85.87 -1.13	87 SHORT

===== END OF FM SPACING STUDY FOR CHANNEL 204 =====





KLVK 206C0 Fountain Hills
60 dBu F(50,50)
100 dBu F(50,10)

KNAI 202C1 Phoenix
KPHF 202C1 Phoenix
(Share time stations)
60 dBu F(50,50)
100 dBu F(50,10)

YAVAPAI

GILA

MARICOPA

PINAL

KPNG 204C3 Chandler
60 dBu F(50,50)
100 dBu F(50,10)

PIMA

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KPNG 204C3 2Adj Study Map

0 15 30 45
Kilometers

Hatfield & Dawson

5/2015