

K271DF CONNER, CA Proposed Channel 271D (102.1 MHz)  
LA NUEVA BROADCASTING, INC. - MINOR MODIFICATION CP

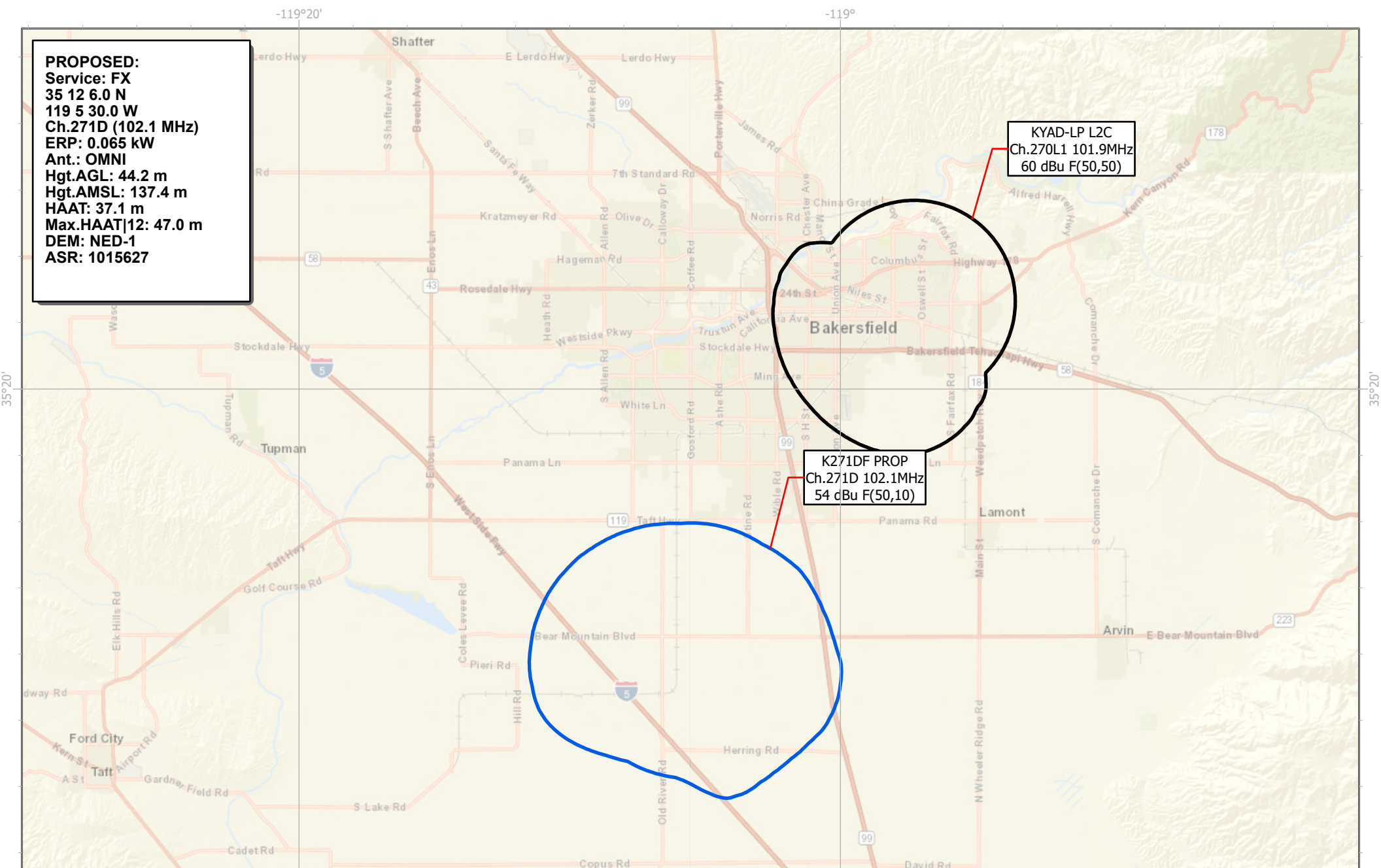
0 5 10 20 Kilometers

Figure 1

Co-channel and minor change showing.

Contemporaneously filed applications for K271DF and K271DD are being filed to reduce coverage and become "non-fill-in" translators to rebroadcast primary station KHMU FM. K271DF and K271DD proposals comply with the overlap requirements of 74.1204(a).

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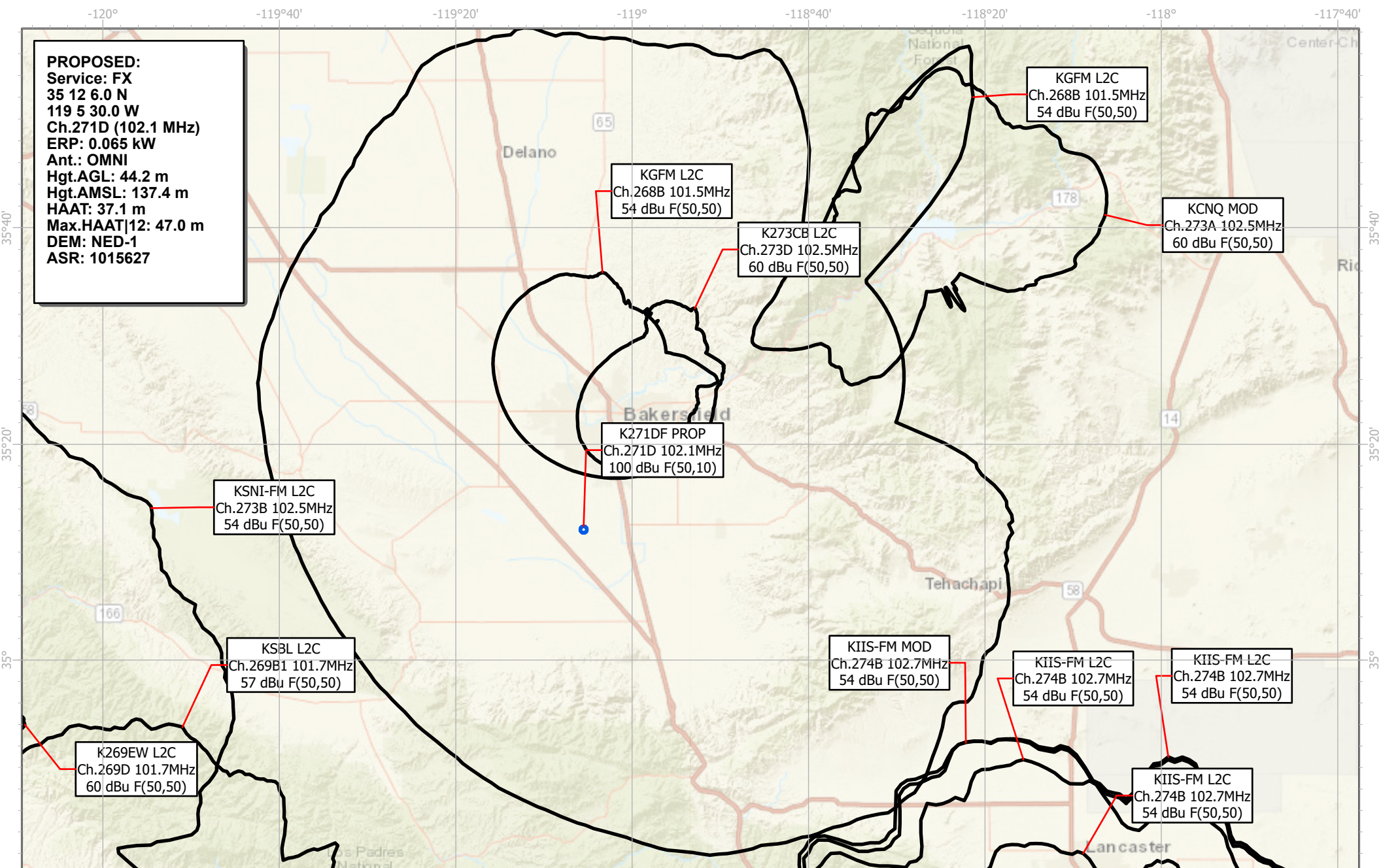


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1st adjacent-channel showing.

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2nd and 3rd adjacent-channel showing.

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**PROPOSED:**  
Service: FX  
35 12 6.0 N  
119 5 30.0 W  
Ch.271D (102.1 MHz)  
ERP: 0.065 kW  
Ant.: OMNI  
Hgt.AGL: 44.2 m  
Hgt.AMSL: 137.4 m  
HAAT: 37.1 m  
Max.HAAT|12: 47.0 m  
DEM: NED-1  
ASR: 1015627

K271DF PROP  
Ch.271D 102.1MHz  
112.67 dBu F(50,10)



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0 20 40 80 Meters

Figure 4

Third adjacent-channel waiver showing with respect to KGFM. KGFM has a field strength of 72.7 dBu F(50,50) at the proposed site.

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**Table 1 - 74.1204(a) Channel Study****K271DF CONNER, CA - LA NUEVA BROADCASTING, INC.****MINOR MODIFICATION CP December 2022 (Ch.271D proposed)**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	Distance (km)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)
268	B	KGFM	FS	L-L2C	BAKERSFIELD	CA	US	AGM CALIFORNIA, INC	10.7	30.6	22.4	8.2	47.1
268	B	KGFM	FM	L-L2C	BAKERSFIELD	CA	US	AGM CALIFORNIA, INC	50.4	41.3	86.2	<b>-44.9</b>	72.7 (See NOTE)
270	L1	KYAD-LP	FL	L-L2C	BAKERSFIELD	CA	US	COUNCIL OF MESSIAN	32.5	23.2	15.6	7.6	42.5
271	D	K271DF	FX	C-MOD	CONNER	CA	US	LA NUEVA BROADCASTING	0.0		23.9	<b>-23.9</b>	(applicant)
271	D	K271DD	FX	C-MOD	BAKERSFIELD	CA	US	LA NUEVA BROADCASTING	338.5	29.1	27.1	2.0	40.5
273	D	K273CB	FX	L-L2C	BAKERSFIELD	CA	US	XL MEDIA (CA) INC.	30.0	36.5	25.1	11.4	52.7

Terrain data DEM: NED-1

**NOTE: Third adjacent-channel waiver showing with respect to KGFM.**

Third adjacent KGFM has a field strength of 72.7 dBu at the proposed K271DF site. Therefore the proposed translator's interfering contour is the 113 dBu F(50,10) contour. At 65 watts ERP and with the antenna mounted at 44.2 meters AGL the proposed translator's 113 dBu F(50,10) extends 132 meters horizontally from the tower. However, due to mounting height and the vertical elevation pattern of the proposed antenna, the 113 dBu interfering contour will remain far above ground level and will not contain any structures or population. The translator's 113 dBu contour will remain at least 16.8 meters above ground level. Therefore this proposal is compliant with the allowance of Rule 74.1204(d).

**Table 2 - 74.1204(g) Channel Study**  
**K271DF CONNER, CA - LA NUEVA BROADCASTING, INC.**

**MINOR MODIFICATION CP December 2022 (Ch.271D proposed)**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	FCC Dist.(km)	Req. Dist. (km)	Clearance (km)
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**\*\* Propsed ERP is less than 100 watts. Not subject to intermediate frequency separation requirements.**

Distance separations determined per §73.208(c)

Distance to Mexican border: 347 km.

The proposed antenna location is not within 320 kilometers of the common border between the United States and Canada or Mexico.

## Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$ )	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$ )	Distance to maximum PD (m)
K271DF (Proposed)	44.2	<b>JAMPRO JLLP-1 (EPA Type 2)</b>	1	0.065	0.065	0.29	0.03%	0.67	0.34%	43.2
						0.29	<b>0.0%</b>	0.67	<b>0.3%</b>	43.2

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

\* single bay assumed (worst case)

Calculations made using FCC FMModel (Revised version)