

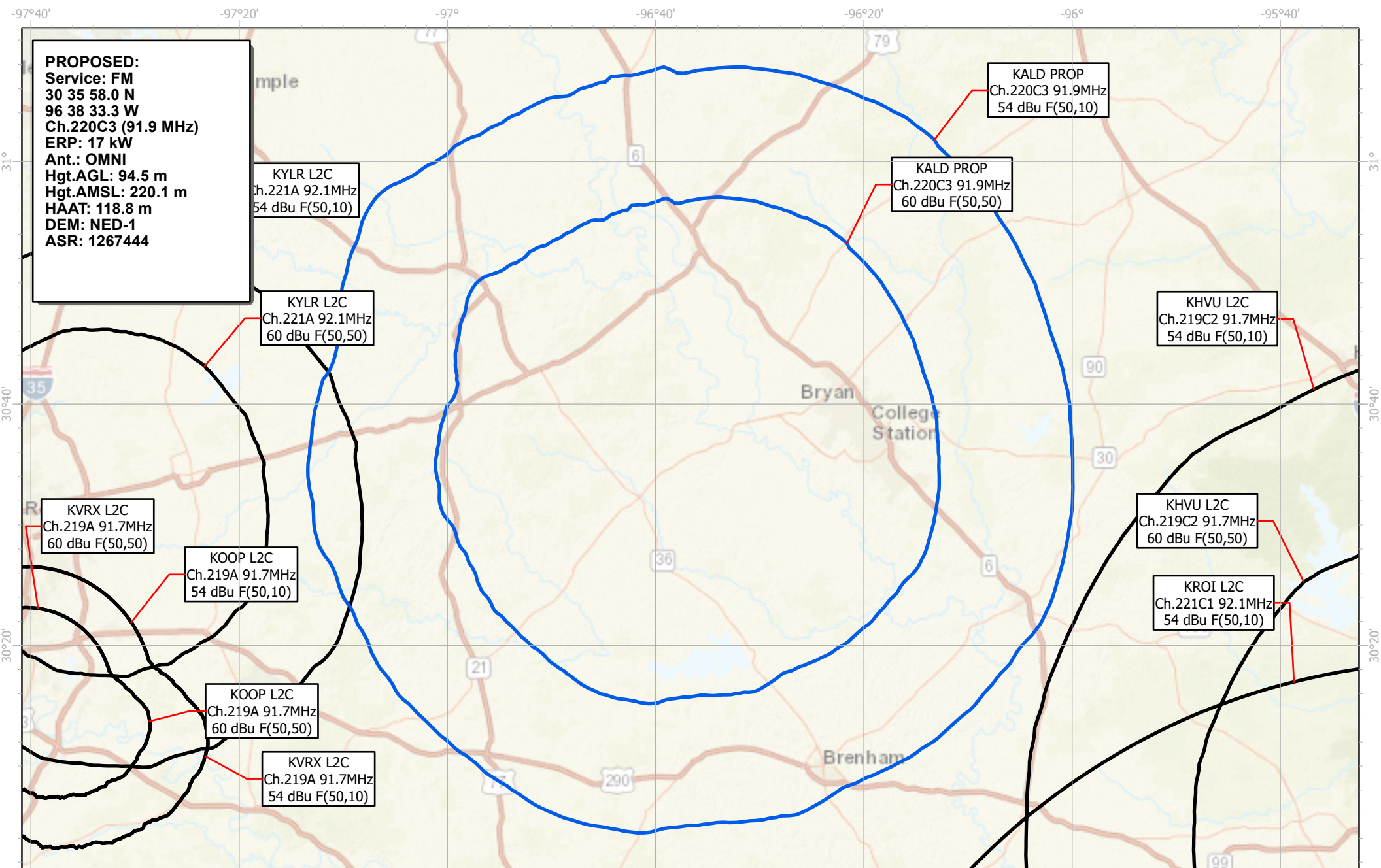
KALD CALDWELL, TX Proposed Channel 220C3 (91.9 MHz)
HOUSTON CHRISTIAN BROADCASTERS, INC. - MINOR CHANGE

Co-channel and minor change showing.

0 15 30 60 Kilometers

Figure 1

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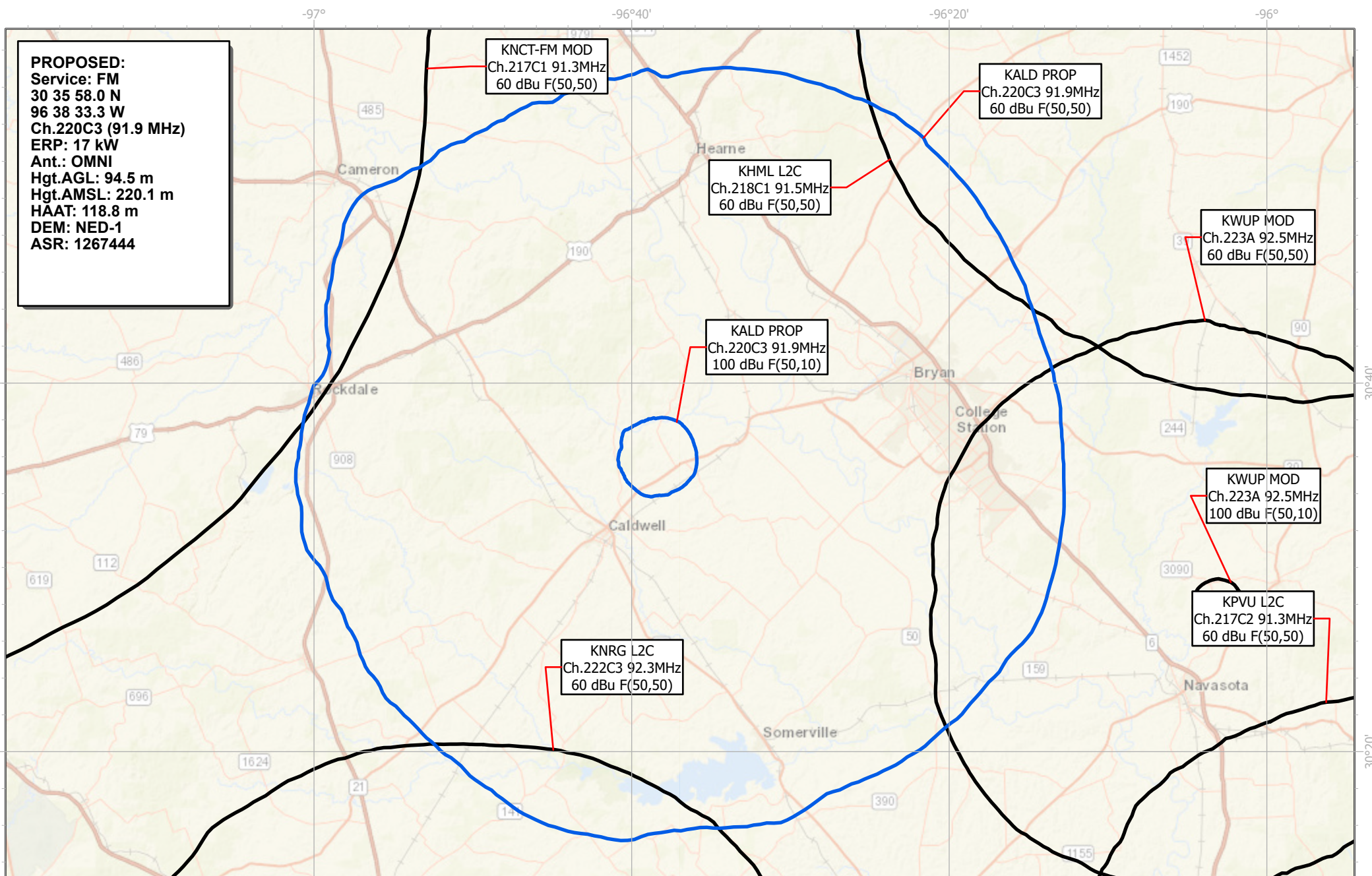
KALD CALDWELL, TX Proposed Channel 220C3 (91.9 MHz)
HOUSTON CHRISTIAN BROADCASTERS, INC. - MINOR CHANGE

1st adjacent-channel showing.

0 5 10 20 Kilometers

Figure 2

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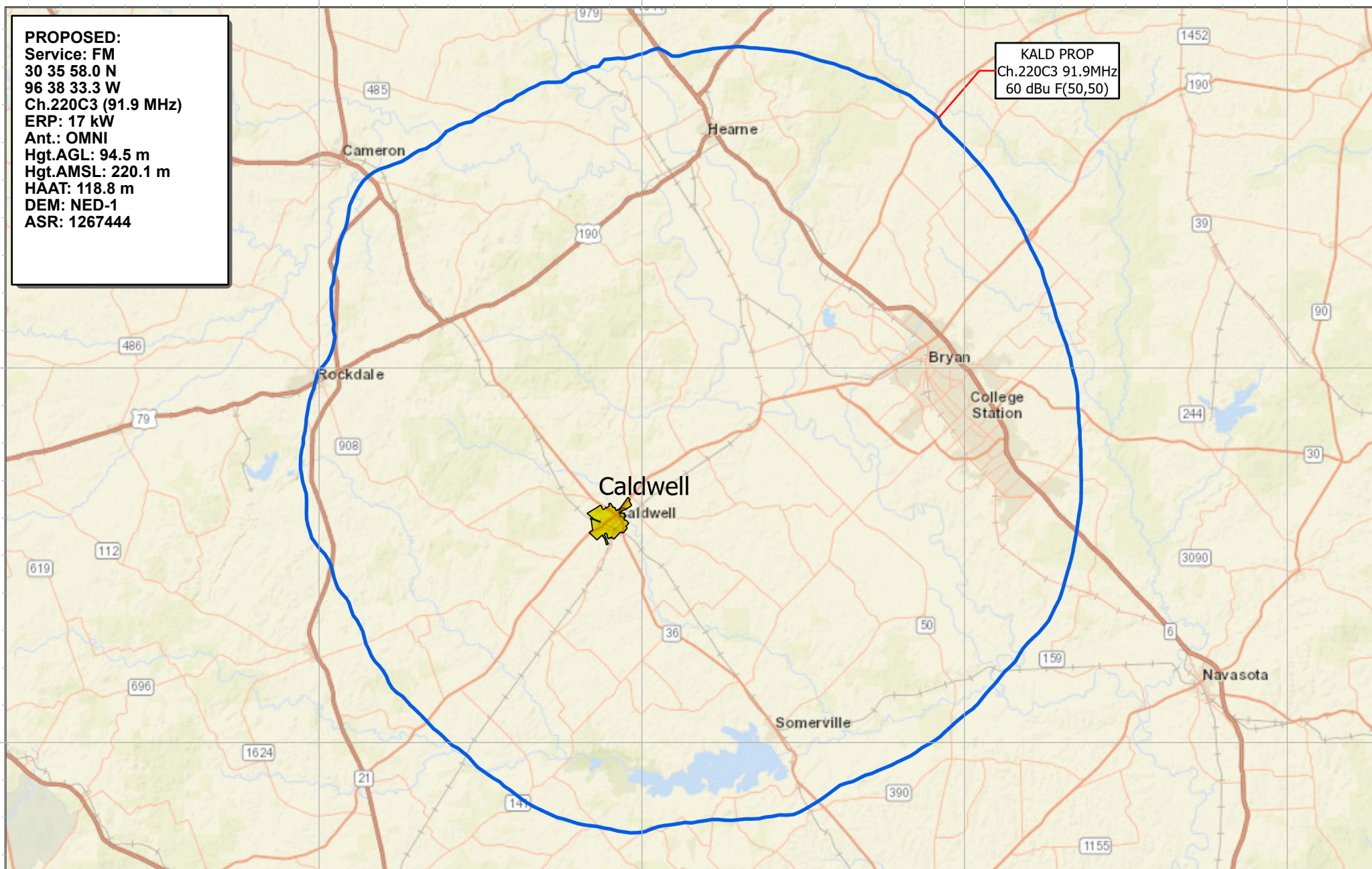
KALD CALDWELL, TX Proposed Channel 220C3 (91.9 MHz)
HOUSTON CHRISTIAN BROADCASTERS, INC. - MINOR CHANGE

2nd and 3rd adjacent-channel showing.

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PROPOSED:
Service: FM
30 35 58.0 N
96 38 33.3 W
Ch.220C3 (91.9 MHz)
ERP: 17 kW
Ant.: OMNI
Hgt.AGL: 94.5 m
Hgt.AMSL: 220.1 m
HAAT: 118.8 m
DEM: NED-1
ASR: 1267444

KALD PROP
Ch.220C3 91.9MHz
60 dBu F(50,50)



KALD CALDWELL, TX Proposed Channel 220C3 (91.9 MHz)
HOUSTON CHRISTIAN BROADCASTERS, INC. - MINOR CHANGE

0 5 10 20 Kilometers

Figure 4

Community of license showing.

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Table 1 - 73.509 Channel Study

KALD CALDWELL, TX - HOUSTON CHRISTIAN BROADCASTERS, INC.

MINOR CHANGE January 2023 (Ch.220C3 proposed)

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	Distance (km)	Req. Dist. (km)	Clearance (km)
217	C2	KPVU	FM	L-L2C	PRAIRIE VIEW	TX	US	PRAIRIE VIEW A & M U	132.3	84.0	41.9	42.1
217	C1	KNCT-FM	FM	L-MOD	KILLEEN	TX	US	CENTRAL TEXAS COLLEGE	294.8	103.7	75.0	28.6
218	C1	KHML	FM	L-L2C	MADISONVILLE	TX	US	HOUSTON CHRISTIAN BROADCASTERS, INC.	49.0	87.0	55.0	32.0
219	A	KOOP	FM	L-L2C	HORNSBY	TX	US	TEXAS EDUCATIONAL BROADCASTING	249.8	105.6	67.8	37.8
219	A	KVRX	FM	L-L2C	AUSTIN	TX	US	THE UNIVERSITY OF TEXAS AT AUSTIN	249.8	105.6	67.8	37.8
219	C2	KHVU	FM	L-L2C	HOUSTON	TX	US	HOPE MEDIA GROUP	113.9	144.5	119.3	25.3
220	C2	KALD	FM	L-L2C	CALDWELL	TX	US	HOUSTON CHRISTIAN BROADCASTERS, INC.	131.1	0.0	162.5	-162.5 (applicant)
220	C3		FM	C-AMD	Gonzales	TX	US	TEXAS PUBLIC RADIO	211.7	142.1	125.1	17.0
220	A	KLLR	FM	L-L2C	DRIPPING SPRINGS	TX	US	EDUCATIONAL MEDIA	253.7	155.0	125.6	29.4
220	C2	KAVX	FM	L-L2C	LUFKIN	TX	US	LUFKIN EDUCATIONAL	65.5	208.0	167.9	40.2

Terrain data DEM: NED-1

Table 2 - 73.207 Channel Study**KALD CALDWELL, TX - HOUSTON CHRISTIAN BROADCASTERS, INC.****MINOR CHANGE January 2023 (Ch.220C3 proposed)**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	FCC Dist.(km)	Req. Dist. (km)	Clearance (km)
221	A	KYLR	FM	L-L2C	HUTTO	TX	US	EDUCATIONAL MEDIA	265.7	90.4	89	1.4
221	C1	KROI	FM	L-L2C	SEABROOK	TX	US	RADIO ONE LICENSES,	138.2	183.0	144	39.0
222	C3	KNRG	FM	L-L2C	NEW ULM	TX	US		194.6	68.5	43	25.5
223	A	KWUP	FM	L-MOD	NAVASOTA	TX	US	HOPE MEDIA GROUP	104.5	58.8	42	16.8
274	A	NEW	FM	C-AMD	MILANO	TX	US		311.5	25.0	12	13.0

Distance separations determined per §73.208(c)

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 at 10 m distance	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$)	Distance to maximum PD (m)
KALD (Proposed)	94.5	*(EPA Type 1)	1	17.0	17.0	71.9	7.19%	79.9	40.0%	25.0
						71.90	7.2%	79.90	40.0%	25.0

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 asumed (worst case)

Calculations made using FCC FMModel (Revised version)