

GREAT PLAINS CHRISTIAN RADIO  
PERRYTON, TEXAS NEW STATION APPLICATION

This application is for a new Class C3 88.5 MHz non-commercial FM station in Perryton, Texas. The proposed ASR #1212695 tower is owned by Champion Measurement and Automation LLC. A tower access is attached to this statement. There are six stations licensed to Perryton. There is one AM, KXIT AM and three FM's KBEX, KTDH and KTDA. There are two FM translators, K2204GQ and K233BY.

The new station will be fully spaced, frequency wise, to all licensed stations in the area. The proposed 60 dBu (1.0 mv/m) contour will cover all of Perryton. The 60 dBu contour will have an area of 4,582 square kilometers. The 2020 US Census shows 12,603 persons living inside the contour area.

The FM Spacing Study for the proposed station, along with the Contour and Station Data, Coverage Map, signed Tower Access Statement and the Technical Certification Requirements are all attached to this report.



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Larry Waggoner

10-29-2021

Project: PERRYTON

Site Coordinates: 36-23-45 North 100-47-44 West

NGDC 30-Second Database is used in Continental US

DEM-30 Database is used in AK, HI, and PR.

F(50,50) Contours

Azm (deg)	HAAT (mtrs)	70 dBu (km)	60 dBu (km)	Radial (mtrs)
0	86	21.5	36.3	890
45	92	22.2	37.5	884
90	94	22.4	37.9	882
135	94	22.4	37.9	882
180	89	21.9	36.9	887
225	82	21.0	35.5	894
270	81	20.9	35.3	895
315	79	20.6	34.9	897

Data in (feet) meters

Overall Height Above Average Terrain: ( 285) 87 \*

Site Elevation AMSL: ( 2,927) 892

Antenna Height Above Ground Level: ( 275) 84

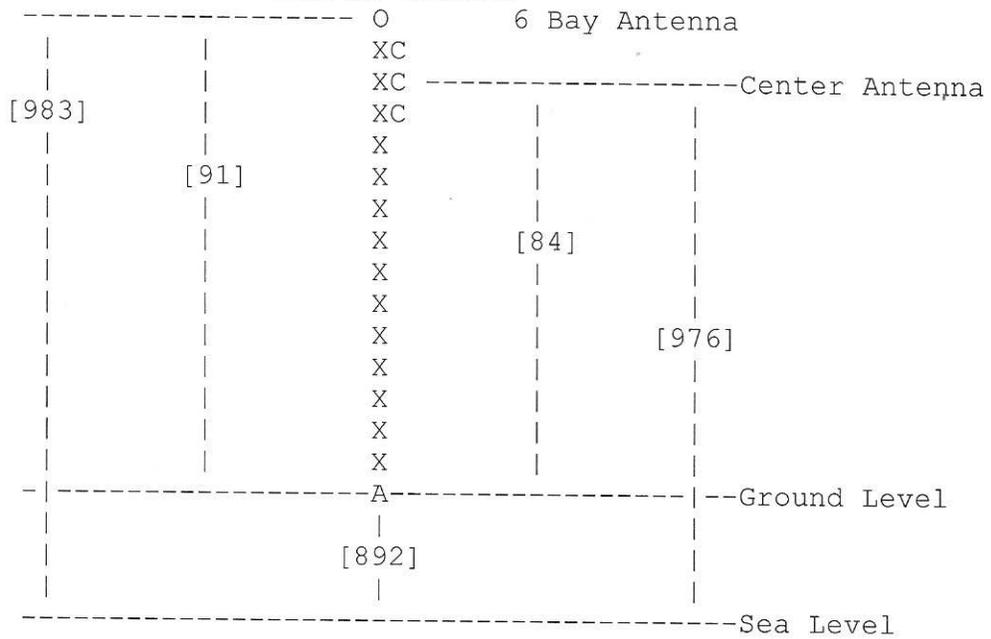
Antenna Center Above Sea Level: ( 3,202) 976

Overall Ground Average Terrain AMSL: ( 2,917) 889

Effective Radiated Power: 25.00 kW \*

TV/FM Channel: 220

VERTICAL SKETCH



FM Study for: PERRYTON FCC Database Date: 10/21/2021 36-23-45  
Location: PERRYTON, TX Channel Class: C3 100-47-44

Contours calculated on direct line using 73.509(a)

[\*] by Distance indicates directional antenna used in calculation.

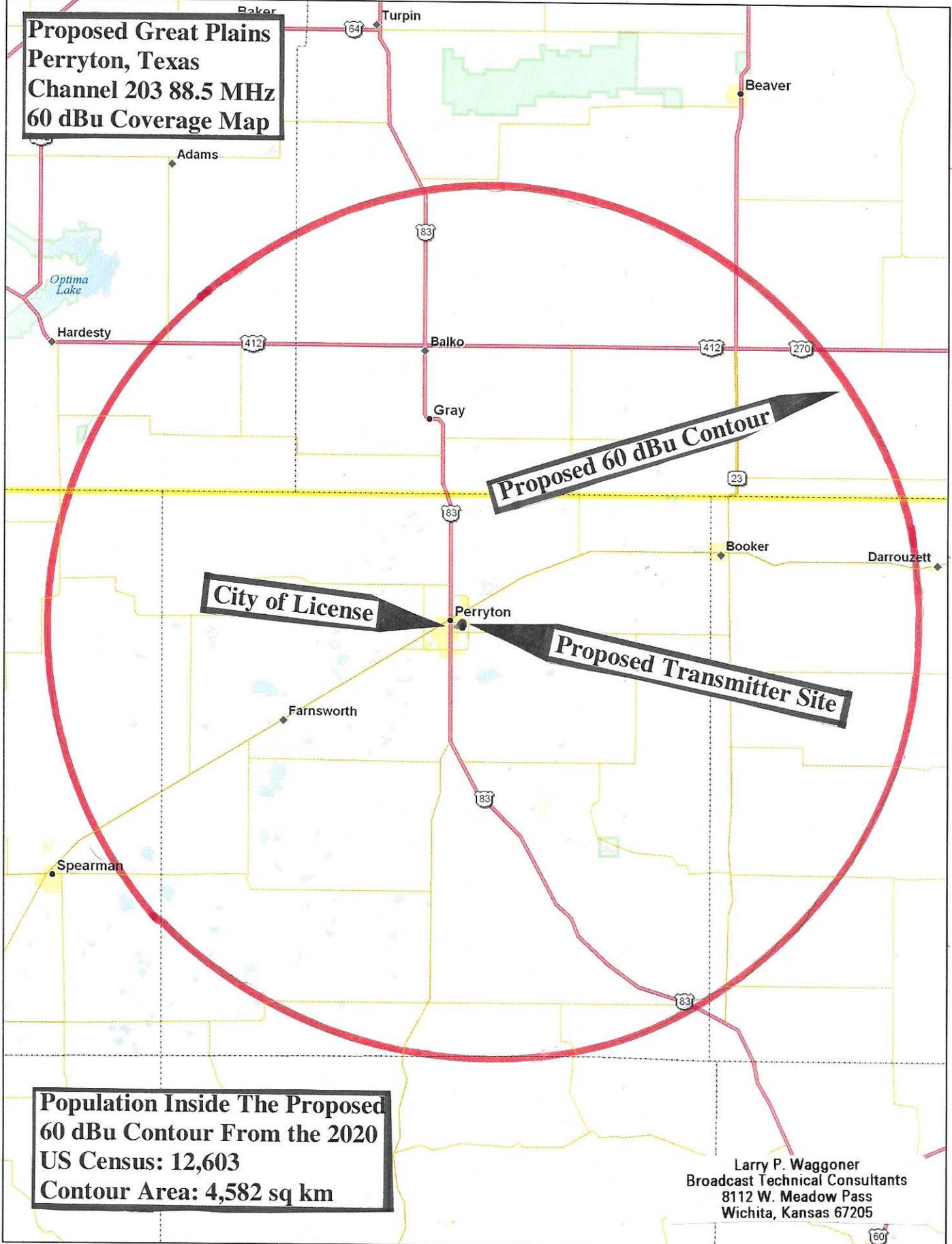
[\*] by HAAT indicates calculated as missing in database.

Call City, State Chan Class Freq kW Latitude Dist. Required  
Status Proponent File Number HAAT Longitude Azm. Clear (km)

>>>>>>> Study For Channel 203 88.5 MHz <<<<<<<<

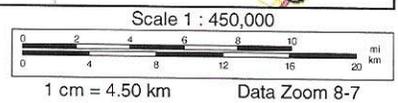
KJDR	GUYMON, OK	201 A	88.1	1	36-40-27	67.8	42	
LIC	Fac. No. 175032	BLEED	-20111212AHY	83	101-28-12	297.3	+25.8	CLEAR
KJDR	F(50,10)	100 dBu =	2 km,	PERRYTF(50,50)	60 dBu =	38 KM	+28 km	
PERRYT	F(50,10)	100 dBu =	4 km,	KJDR F(50,50)	60 dBu =	19 KM	+45 km	
KWAS	BORGER, TX	201 A	88.1	.3	35-40-42	95.9	42	
LIC	Fac. No. 72171		-20000154779	62	101-23-21	214.1	+53.9	CLEAR
KWAS	F(50,10)	100 dBu =	1 km,	PERRYTF(50,50)	60 dBu =	38 KM	+57 km	
PERRYT	F(50,10)	100 dBu =	4 km,	KWAS F(50,50)	60 dBu =	16 KM	+76 km	
KWOU	WOODWARD, OK	201 C1	88.1	23.5	36-22-31	118.5	76	
LIC	Fac. No. 172867	BLEED	-20110105AAL	224	99-28-32	90.7	+42.5	CLEAR
KWOU	F(50,10)	100 dBu =	6 km,	PERRYTF(50,50)	60 dBu =	38 KM	+75 km	
PERRYT	F(50,10)	100 dBu =	4 km,	KWOU F(50,50)	60 dBu =	52 KM	+63 km	
KJRT	AMARILLO, TX	202 C1	88.3	60.0	35-06-50	169.8	144	
APP	Fac. No. 72168		-20000147985	74	101-49-18	213.4	+25.8	CLEAR
KJRT	F(50,10)	54 dBu =	67 km,	PERRYTF(50,50)	60 dBu =	38 KM	+65 km	
PERRYT	F(50,10)	54 dBu =	59 km,	KJRT F(50,50)	60 dBu =	41 KM	+70 km	
KZTH	PIEDMONT, OK	203 C1	88.5	50	35-31-17	256.8	211	
LIC	Fac. No. 83880	BLEED	-20090708ADW	182	98-09-34	111.4	+45.8	CLEAR
KZTH	F(50,10)	40 dBu =	140 km,	PERRYTF(50,50)	60 dBu =	38 KM	+79 km	
PERRYT	F(50,10)	40 dBu =	113 km,	KZTH F(50,50)	60 dBu =	54 KM	+90 km	
KNGM	GUYMON, OK	205 C3	88.9	25	36-40-25	67.8	43	
LIC	Fac. No. 174174	BLEED	-20100513ALR	98	101-28-12	297.2	+24.8	CLEAR
KNGM	F(50,10)	100 dBu =	4 km,	PERRYTF(50,50)	60 dBu =	38 KM	+25 km	
PERRYT	F(50,10)	100 dBu =	4 km,	KNGM F(50,50)	60 dBu =	42 KM	+22 km	

**Proposed Great Plains  
Perryton, Texas  
Channel 203 88.5 MHz  
60 dBu Coverage Map**



**Population Inside The Proposed  
60 dBu Contour From the 2020  
US Census: 12,603  
Contour Area: 4,582 sq km**

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10/22/21

**GREAT PLAINS CHRISTIAN RADIO**  
**TOWER ACCESS STATEMENT**  
**PERRYTON, TEXAS**

To whom it may concern,

Champion Measurement and Automation LLC currently provides transmitter and antenna space to Great Plains Christian Radio in Meade and would be willing to continue working with them in the future if their application for expansion is approved by the Federal Communications Commission.

Tower ID: #1212695

Name: Doug Reeves



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Title: Managing Member

Address:

14750 US Highway 83 North  
PO Box 948  
Perryton, TX 79070

Phone number: (806) 435-2727

Email: [doug@champautomation.com](mailto:doug@champautomation.com)

**GREAT PLAINS CHRISTIAN RADIO, INC.**  
**TECHNICAL CERTIFICATION REQUIREMENTS**

This Great Plains Christian Radio, Inc. non-commercial new station application is in full compliance with the Commission's Technical Certification requirements. The requirements listed in Part 73.203, Availability of Channels, Part 73.207 Minimum Distance Station Separation, Part 73.213 Grandfathered Stations and Part 73.315 Station Location are requirements necessary only for commercial stations. This non-commercial FM band application is in compliance with Part 73.509, dealing with 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> adjacent channel and co-channel contour overlap. It is also in compliance with Part 73.515. The 60 dBu or 1.0 mv/m new station contour will cover the required area of the city of license.