

## **EXHIBIT A – TECHNICAL NARRATIVE**

### **NEW NCEFM APPLICATION**

### **CHANNEL 217 ( 91.3 MHZ)**

**World Federation Of Pastors and Ministers of the Full Gospel, Inc  
Nevada, MO**

Applicant, is submitting this application for a new non-commercial facility. This facility will be located on a tower with the FCC ASRN 1227855.

This application is for First NCEFM Licensed Service to Nevada, MO.

This application protects all stations, allotments, construction permits, and applications.

### **ENVIRONMENTAL**

This application does not propose any changes to tower ASRN 1227855 that would require an environmental impact analysis.

### **ADDITIONAL EXHIBITS**

Exhibit A – This Narrative

Exhibit B – Channel Study and Contour Protections

Exhibit C – Map showing no overlap between this proposal and KBIA and KANU.

Exhibit D – Community Coverage Contour Map

Exhibit E – Channel 6 TV Showing. Not required as the ch 6 LPTV stations are further than 174 km. (73.525)

Exhibit F – FM MODEL RFE analysis

Exhibit G – Aerial

Tower ASRN 1227855

38 – 02 – 53.3 N

94 – 21 – 46 W

Tower overall Height AGL is 88.7 meters without appurtenances, 91.7 meters overall

Antenna RCAGL is 78 meters both Horizontal and Vertical

G-AMSL is 245 meters

RCAMSL is 323 meters both Horizontal and Vertical

HAAT is 85.8 meters

ERP is 8.0 kW both Horizontal and Vertical

Class C3

Non-Directional antenna

1 bay Nicom BKG 77, or similar type of antenna.

This narrative, Overlap Requirements, Community Coverage, Environmental, Site aerial photo

### **Proposed NCEFM Contour Protection**

**Exhibit B** - Attached study shows the relevant channel 6 TV stations and existing NCEFM facilities including CPs, and applications.

**Exhibit C** - Contour map is included to show that there is no contour overlap with the Proposed facility and any other facilities.

### **Community Coverage**

**Exhibit D** - Map showing that the 60 db contour coverage of the proposed NCEFM Community.

### **Exhibit E - TV 6 Interference Analysis**

Section 73.525 designates TV 6 stations within 174 km of proposed FM stations on channel 217 to be affected. Those Ch 6 LPTV stations listed in Exhibit B are further than 174 km therefore there are no affected ch 6 stations

### **Environmental RFE – FMMODEL**

**Exhibit F** - FMMODEL predicts this application will result in 17.4 mW/cm<sup>2</sup> or 8.7% of the 200 mW/cm<sup>2</sup> maximum allowable uncontrolled exposure to the general public.

### **Aerial of Site**

**Exhibit G** - Site is secured by fence with a locked gate.

Applicant will place proper signage at the site, reduce or cease transmission when there are workers present working on the tower.

## EXHIBIT I

### ADDITIONAL TECHNICAL STATEMENT

Population Counts and Area are based on the US 2010 Census Block Centroids. The sum of all Census 2010 blocks that have 1 or more persons in that block that are inside a contour is counted as the population inside that contour. The area calculation is done by using triangles that fill the contour being measured. Then the area of each triangle is calculated and added together with other triangles areas inside the contour.

Proposed 60 db:

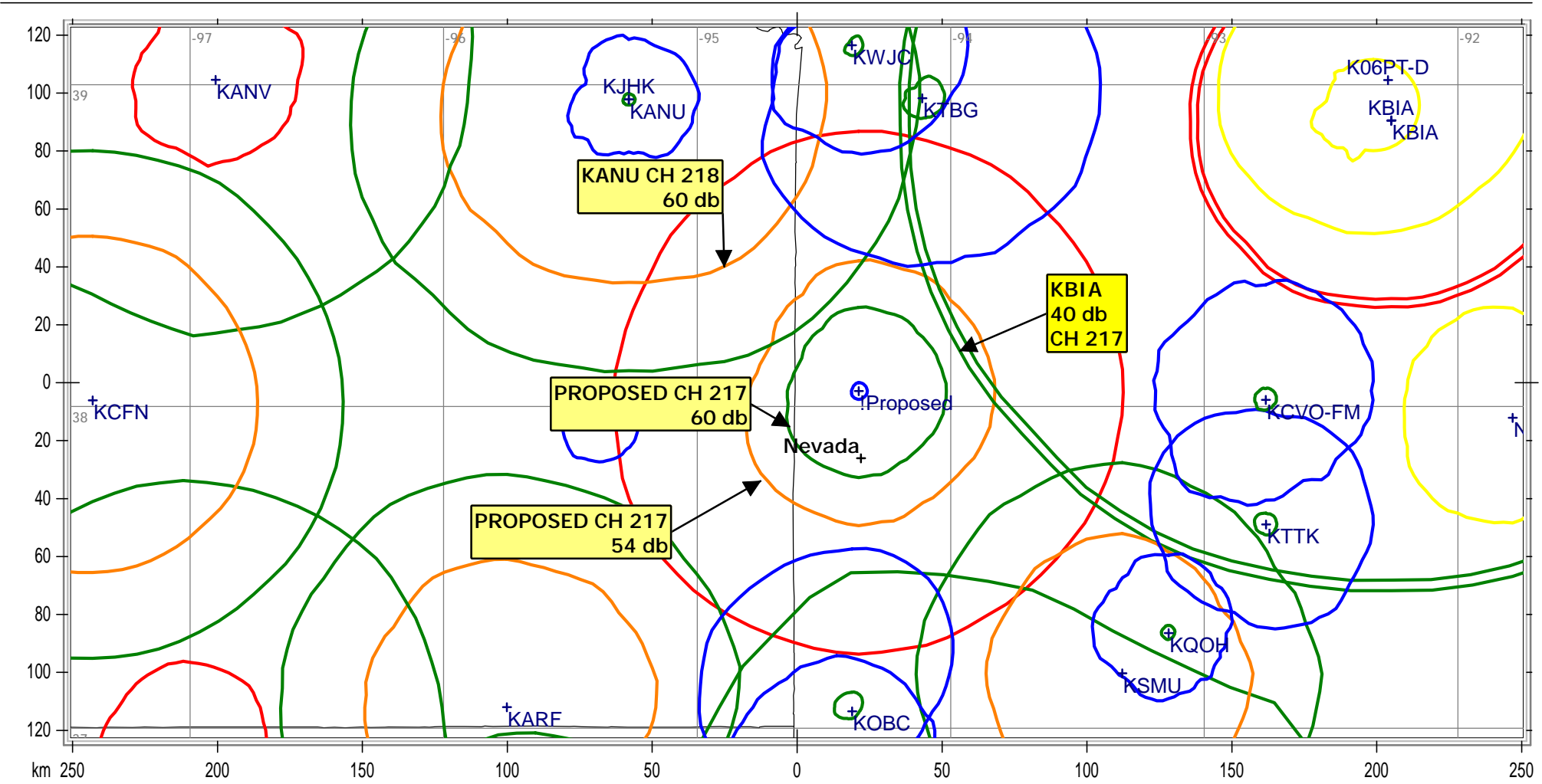
Population 25,815

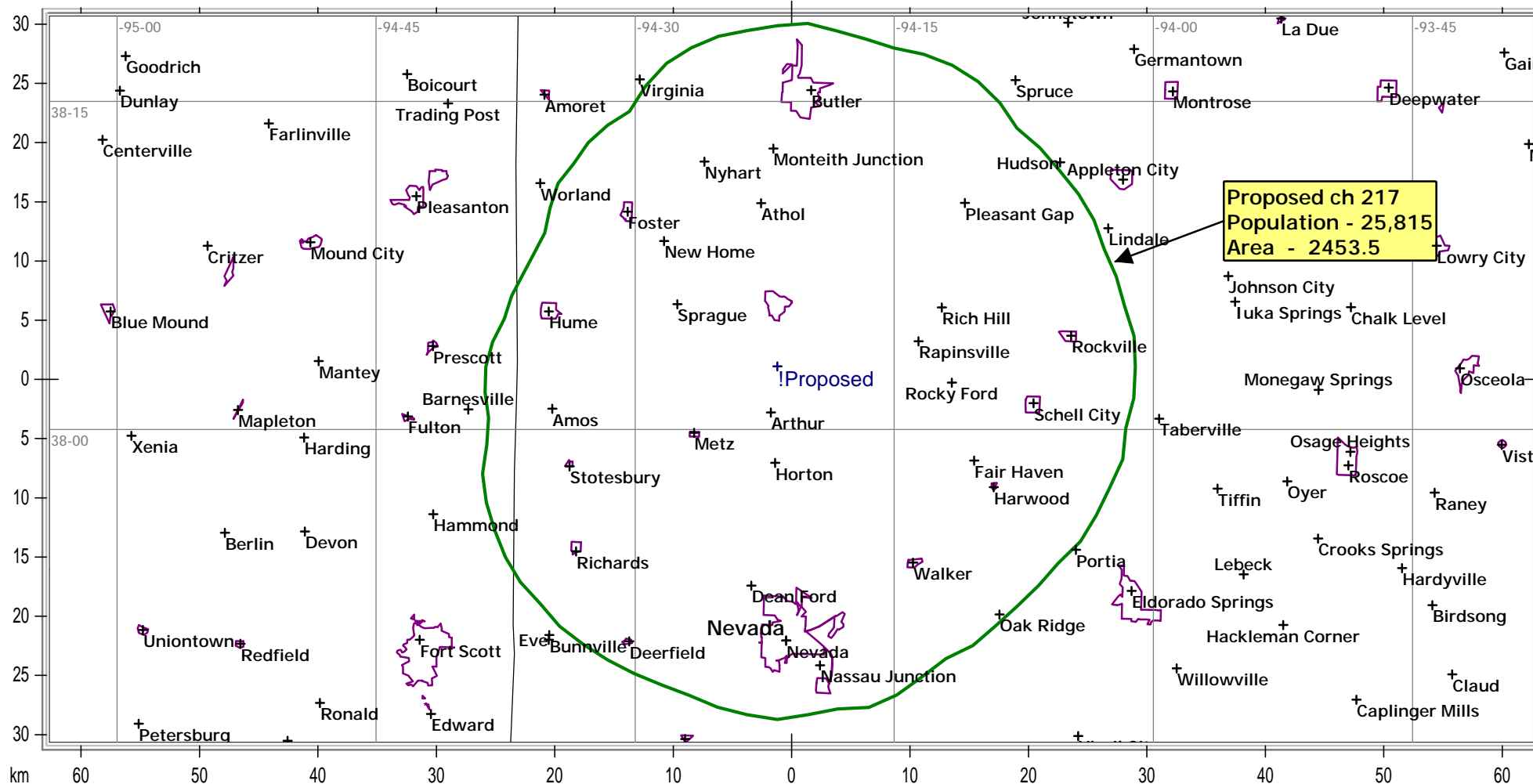
Area 2453.5 sq km

First Licensed NCEFM Service to the Community of Nevada, MO.

**EXHIBIT B  
CHANNEL STUDY  
PROPOSED NCEFM  
NEVADA, MO  
CHANNEL 217**

<b>Callsign</b>	<b>State</b>	<b>City</b>	<b>Freq</b>	<b>Channel</b>	<b>ERP_w</b>	<b>Class</b>	<b>Status</b>	<b>Distance_km</b>	<b>Sep</b>	<b>Clr</b>
NEW	MO	ROLLA	82.1	6	300	TV	CP	226.69	0	0
K06PT-D	MO	COLUMBIA	82.1	6	300	TV	CP	202.62	0	0
KWFT-LD	AR	FORT SMITH	82.1	6	3000	TV	LIC	250.42	0	0
K06QU-D	OK	VIAN	82.1	6	3000	TV	CP	292	0	0
K06PT-D	MO	COLUMBIA	82.1	6	3000	TV	APP	211.24	0	0
KBIA	MO	COLUMBIA	91.3	217	100000	C1	LIC	205.56	211	1.90 dB
KANU	KS	LAWRENCE	91.5	218	100000	C1	LIC	127.95	144	1.19 dB
KBIA	MO	COLUMBIA	91.3	217	100000	C1	APP	205.74	211	1.35 dB
KUAF	AR	FAYETTEVILLE	91.3	217	100000	C0	LIC	246.31	226	5.88 dB
KSMU	MO	SPRINGFIELD	91.1	216	40000	C2	LIC	133.8	117	9.22 dB
KARF	KS	INDEPENDENCE	91.5	218	100000	C1	LIC	164.11	144	11.94 dB
KWJC	MO	LIBERTY	91.9	220	7000	C3	LIC	119.35	43	14.29 dB
KTBG	MO	WARRENSBURG	90.9	215	100000	C1	LIC	103.37	76	18.17 dB
KRSC-FM	OK	CLAREMORE	91.3	217	2200	A	LIC	222.9	142	20.83 dB
KOBC	MO	JOPLIN	90.7	214	60000	C1	LIC	110.55	76	21.48 dB
KSJI	MO	ST. JOSEPH	91.1	216	14000	C3	LIC	190.81	99	22.54 dB
KANV	KS	OLSBURG	91.3	217	6000	A	LIC	245.82	142	25.04 dB
KAXR	KS	ARKANSAS CITY	91.3	217	9300	C3	LIC	266.5	153	26.41 dB
KCFN	KS	WICHITA	91.1	216	100000	C1	LIC	265.26	144	29.15 dB
KTRU	KS	LA HARPE	91.9	220	750	A	LIC	89.16	42	29.69 dB
KCMH	AR	MOUNTAIN HOME	91.5	218	26000	C2	LIC	261.89	117	33.98 dB
KNEO	MO	NEOSHO	91.7	219	14000	C3	LIC	129.84	43	34.59 dB
KTTK	MO	LEBANON	90.7	214	11000	C3	LIC	148.73	43	36.77 dB
KCVO-FM	MO	CAMDENTON	91.7	219	10000	C3	LIC	140.95	43	37.63 dB
KJHK	KS	LAWRENCE	90.7	214	2300	A	LIC	127.95	42	39.16 dB
KQOH	MO	MARSHFIELD	91.9	220	3800	A	LIC	136.36	42	39.69 dB
KJHK	KS	LAWRENCE	90.7	214	2300	A	LIC	127.95	42	39.16 dB
KQOH	MO	MARSHFIELD	91.9	220	3800	A	LIC	136.36	42	39.69 dB

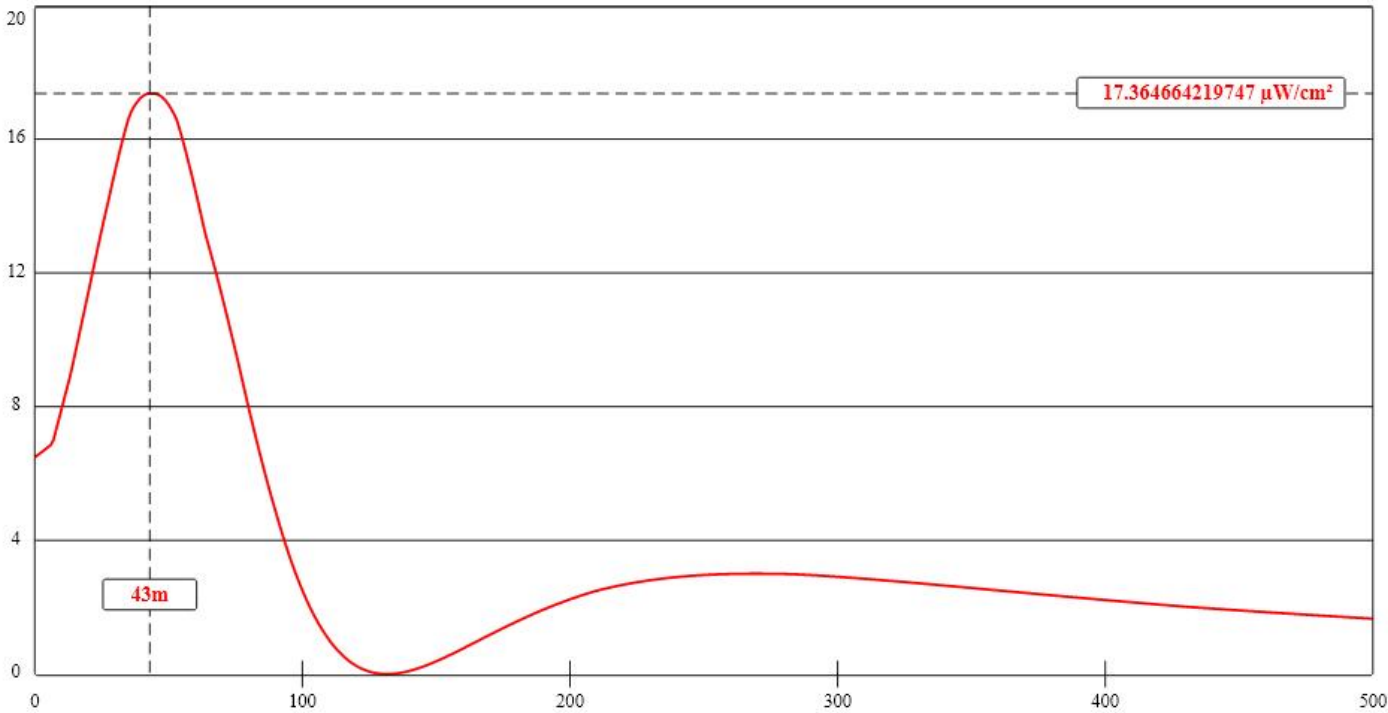




Proposed ch 217  
Population - 25,815  
Area - 2453.5

 State Borders
  City Borders
  Lat/Lon Grid

EXHIBIT F  
FMMODEL  
RFE



View Tabular Results +

Channel Selection	Channel 217 (91.3 MHz) ▾		
Antenna Type +	EPA Type 2: Opposed V Dipole ▾		
Height (m)	<input type="text" value="78"/>	Distance (m)	<input type="text" value="500"/>
ERP-H (W)	<input type="text" value="8000"/>	ERP-V (W)	<input type="text" value="8000"/>
Num of Elements	<input type="text" value="2"/>	Element Spacing (λ)	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

# EXIBIT G

Aerial of site

Legend

1273588

1227855

S 1450 Rd

Missouri 71

71

Google Earth

100 m

