

APPLICATION FOR CONSTRUCTION PERMIT

PROPOSED NEW FM TRANSLATOR STATION
CABOOL, MISSOURI
FACILITY ID: 140389
103.9 MHz / 0.140 kW ERP / ND

COMMUNITY BROADCASTING, INC.

AUGUST, 2013

APPLICATION FOR CONSTRUCTION PERMIT

The following engineering statement and attached exhibits have been prepared for **Community Broadcasting, Inc.** ("CBI"), applicant for a new FM translator station to serve Cabool, Missouri, and are in support of their application for construction permit.¹

This application is being submitted as the long-form application for the original Cabool short-form engineering proposal submitted as part of the Commission's Translator Auction 83 process. The original short-form proposal was assigned FCC File No. BNPFT-20030312AYQ. Upon initial review, this application was determined to be mutually exclusive with another pending application also submitted during that window. CBI submitted an amendment to the original short-form proposal, which eliminated the mutual exclusivity between these two applications. The technical parameters proposed under this long-form application are identical to those proposed under the short-form amendment.

The proposed facility would operate on FM channel 280 with an effective radiated power of 140 Watts at a center of radiation of 494.4 meters AMSL. This elevation corresponds to a center of radiation at 144.0 meters above average terrain, or 64.7 meters AGL.² A non-directional antenna is proposed for use by the facility. This combination of parameters, including the proposed channel change, would not preclude any Appendix A market LPFM licensing opportunities.

¹ The Facility ID for the proposed translator at Cabool, Missouri is 140389.

² Average terrain elevation determined from sample of FCC 30-second terrain database. Defining radial is the 210 degree true radial, where the average elevation is 350.4 meters AMSL.

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The closest Appendix A market to the proposed facility is the Springfield, Missouri market. Exhibit E-1 illustrates the site location relative to the grid and grid buffer for this market. As this exhibit demonstrates, the proposed site lies well outside the grid buffer of the Springfield, MO market. As a result, no impact to LPFM licensing opportunities within that market would result from the proposed translator.

KSCV(FM) would be the primary facility for the proposed translator. Due to the location of the proposed translator relative to the KSCV(FM) site the translator would not function as a fill-in for that station. Exhibit E-2 illustrates the predicted 60 dBu service contour of the proposed translator along with the licensed 60 dBu service contour of KSCV(FM).

The proposed facility would comply with the provisions of Section 74.1204 of the Commission's Rules. Exhibit E-3 is a tabular allocation study for the proposed facility. As this study demonstrates, contour protection to all proposed and authorized facilities of relevance would be achieved. This tabular allocation study is graphically depicted in Exhibit E-4.

The proposed facility would not constitute a significant environmental impact, and is exempt from environmental processing. The proposed facility would utilize an existing tower that is registered with the Commission. The addition of the CBI antenna to this structure will not increase the existing environmental impact already present.

In addition, the proposed facility would not constitute a radiofrequency radiation exposure hazard to the general population. The Commission's *FM Model* software package predicts a

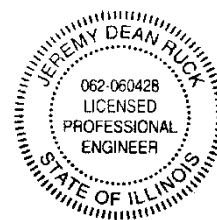
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maximum power density from the proposed facility at ground level of $0.507 \mu\text{W}/\text{cm}^2$ at a distance of 64 meters from the base of the tower. This value is sufficiently low that the proposed translator is categorically excluded. CBI certifies, however, that it will coordinate with all other users of the site to ensure that workers and personnel having access to the site are not exposed to levels of radiofrequency radiation in excess of the applicable safety standards. Such coordination will include, but is not necessarily limited to, a reduction in transmitter power or cessation of operation.

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2013

Jeremy D. Ruck, PE
August 22, 2013

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8.22.2013

1561107.A

BNPFT20030312AYQ
Latitude: 37-05-42 N
Longitude: 092-02-50 W
ERP: 0.14 kW
Channel: 280
Frequency: 103.9 MHz
AMSL Height: 495.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

KSCV

BLED20011217ABA
Latitude: 37-17-41 N
Longitude: 093-09-10 W
ERP: 9.00 kW
Channel: 211
Frequency: 90.1 MHz
AMSL Height: 551.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

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KSCV Licensed
60 dBu Contour

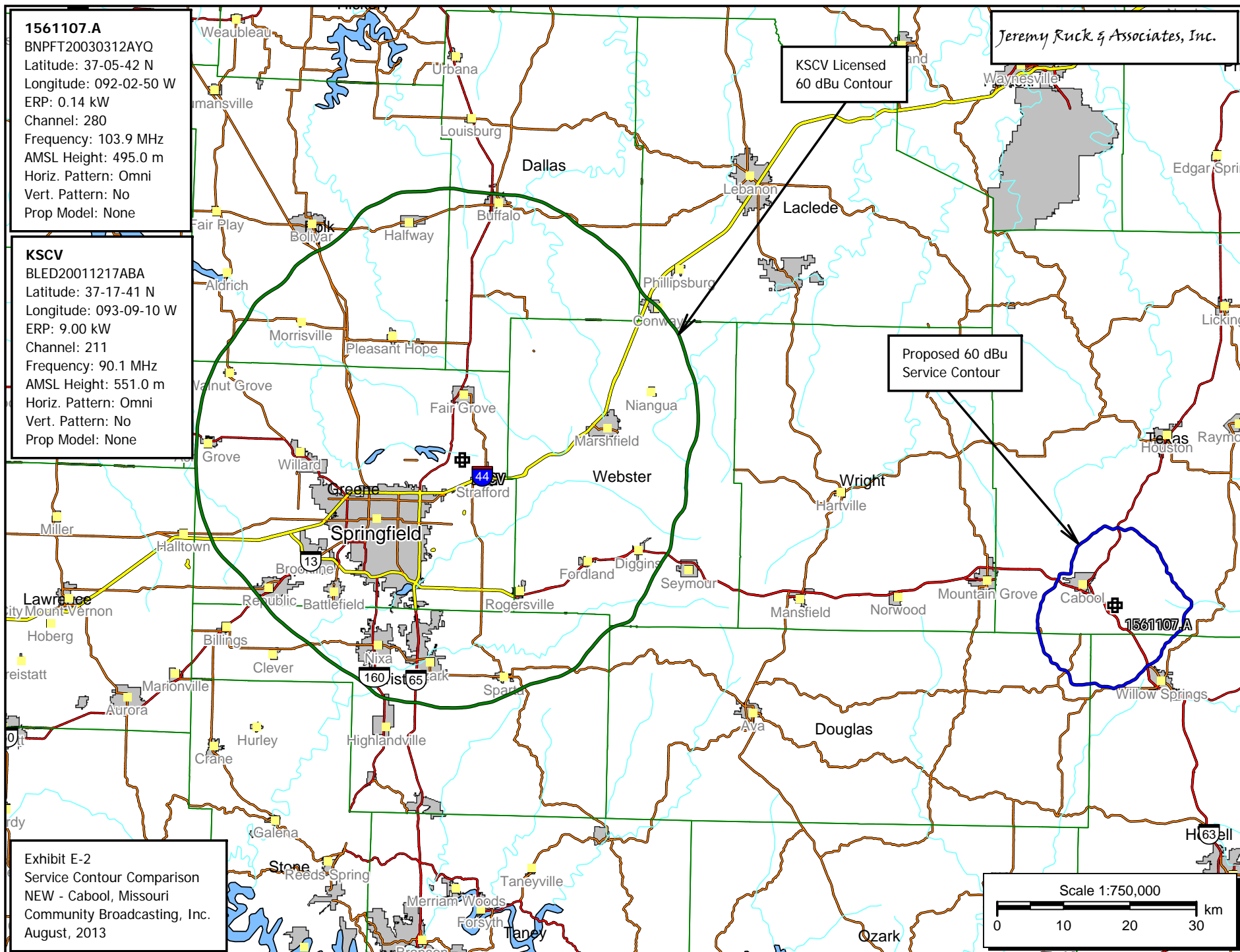
Proposed 60 dBu
Service Contour

1561107.A

Exhibit E-2
Service Contour Comparison
NEW - Cabool, Missouri
Community Broadcasting, Inc.
August, 2013

Scale 1:750,000

0 10 20 30 km



Jeremy Ruck & Associates, Inc.
Consulting Engineers - Canton, Illinois

Exhibit E-3 - Tabular Allocation Study

NEW - Cabool, Missouri

REFERENCE 37 05 42.0 N.
92 02 50.0 W.
CH# 280D - 103.9 MHz, Pwr= 0.14 kW, HAAT= 0.0 M, COR= 495 M
Average Protected F(50-50)= 6.13 km
Omni-directional

DISPLAY DATES
DATA 08-22-13
SEARCH 08-22-13

CH CITY	CALL	TYPE ANT STATE	AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
280D Cabool	1561107	APP _C_ MO	0.0 0.0	0.00 BNPFT20030312AYQ	37 05 42.0 92 02 50.0	0.140	39.4 495	11.5 Community Broadcasting, In	-50.9*	-50.9*
279CO Lebanon	KJEL	LIC _CN MO	322.7 142.3	101.52 BLH19881115KC	37 49 10.0 92 44 51.0	100.000 300	101.7 620	69.6 Waynesville/ Lebanon Licen	-10.7*	17.8
278D Willow Springs	642588	APP _C_ MO	155.2 335.2	13.33 BNPFT20030317BLJ	36 59 10.0 91 59 03.0	0.019 74	0.3 448	3.7 Radio Training Network, In	2.3	7.9
281A Emi nence	1564475	APP NCX MO	82.4 262.9	61.81 BNPH20130723ABM	37 09 58.1 91 21 20.3	6.000 70	47.8 380	31.0 Alma Corporation	2.7	13.0
281A Emi nence	1560184	APP ____ MO	73.1 253.5	56.77 BSFH20130203AAA	37 14 30.0 91 26 00.0	6.000 100	37.4 386	22.3 Alma Corporation	11.3	19.6
281A Emi nence	AU9461709	VAC ____ MO	73.1 253.5	56.77 RM10567*	37 14 30.0 91 26 00.0	6.000 100	37.4 386	22.3 Four Him Enterprises, L. I	11.3	19.6
280D Rockaway Beach	K280FP	LIC _C_ MO	248.2 67.5	107.46 BLFT20130109AFJ	36 43 52.0 93 10 02.0	0.250	57.9 477	18.5 Community Broadcasting, In	37.1	47.2
277D Mansfiel d	K277AM	LIC _C_ MO	263.7 83.4	56.02 BLFT20070206ABI	37 02 18.0 92 40 29.0	0.170 67	0.9 478	12.0 Radio Training Network, In	43.2	42.2
280A Arcadi a	KTNX	LIC NC_ MO	65.6 246.5	130.97 BLH20060203AAX	37 34 23.0 90 41 35.0	0.450 284	73.1 627	25.1 Dockins Broadcast Group, L	47.3	74.7

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.

1561107.A

BNPFT20030312AYQ

Latitude: 37-05-42 N

Longitude: 092-02-50 W

ERP: 0.14 kW

Channel: 280

Frequency: 103.9 MHz

AMSL Height: 495.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

Jeremy Ruck & Associates, Inc.

60 dBu F(50,50) Service Contour

40 dBu F(50,10) Interference Contour

54 dBu F(50,10) Interference Contour

100 dBu F(50,10) Interference Contour

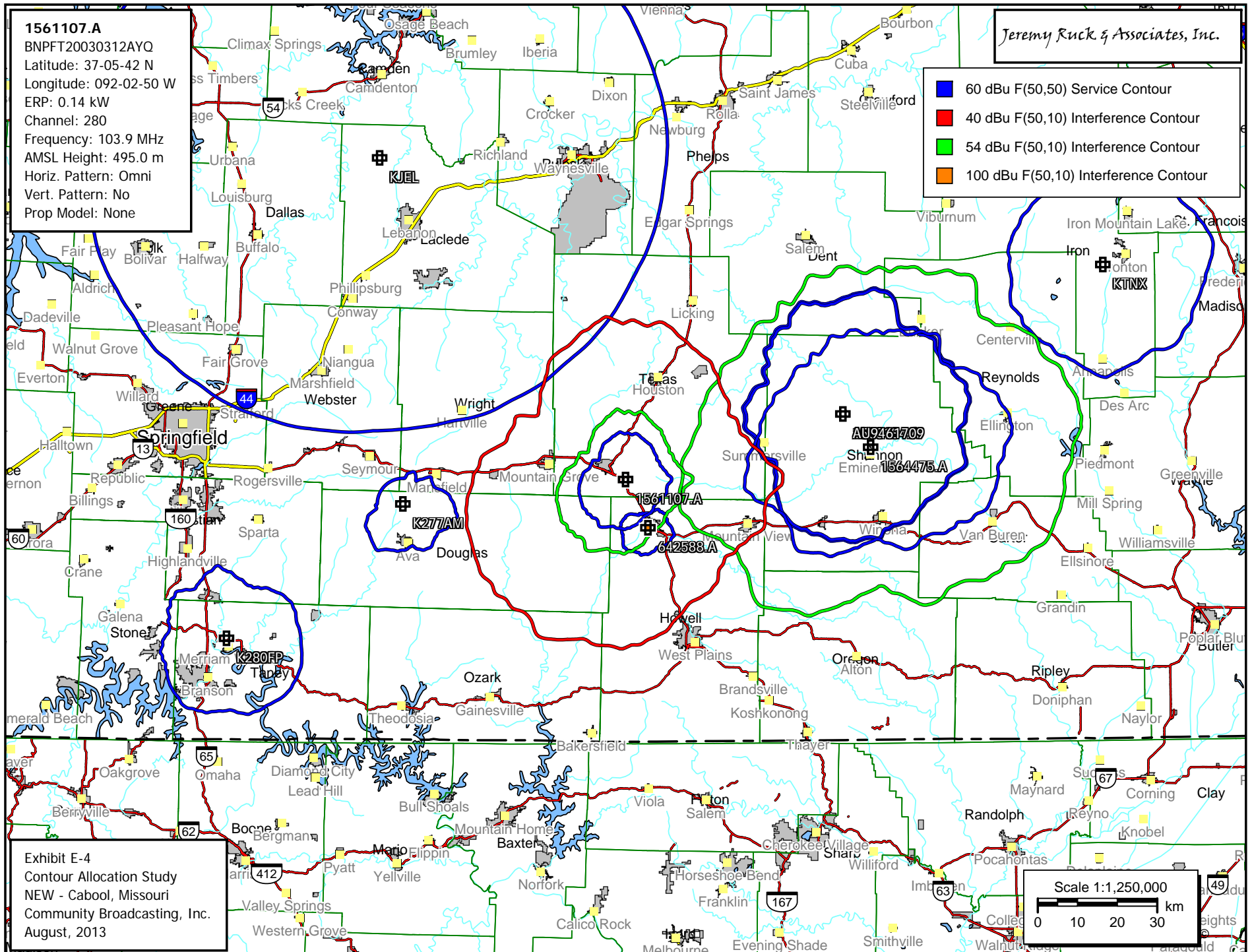


Exhibit E-4
Contour Allocation Study
NEW - Cabool, Missouri
Community Broadcasting, Inc.
August, 2013

Scale 1:1,250,000
0 10 20 30 km