

BROADCAST ENGINEERING CONSULTANTS

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ENGINEERING STATEMENT

Concerning an application for new fill in FM translator for AM broadcast station KSTC AM Sterling, Colorado.

MEDIA LOGIC LLC is the licensee of Station KSTC and the singleton applicant for new translator in Auction 99 to fill in the coverage of KSTC file number BNPFT20170726AEJ. This instant application completes the long form filing for the proposed translator to serve Sterling, Colorado.

The proposed translator antenna will be located at the 45m AGL level on the existing 47m AGL tower of KSTC-AM. The existing tower and the existing transmitter building will be used so no environmental effect is likely. The fields on the ground will be less than 2% of the OET recommended maximum public exposure and therefore will be excluded from environmental study. No employee will be allowed to climb the structure when energized and power will be reduced or operation terminated as needed when any user must service the tower or antennas.

The proposed translator meets location criteria for an AM fill in translator since the proposed 60dBu contour is completely within the KSTC 2mV/m contour as shown on the following coverage map.

The proposed translator protects the existing 60dBu coverage of all licensed, permitted, and known proposed facilities. The proposed interference contours clear the protected contours by more than 20km in all cases. See the allocations study tabulation.

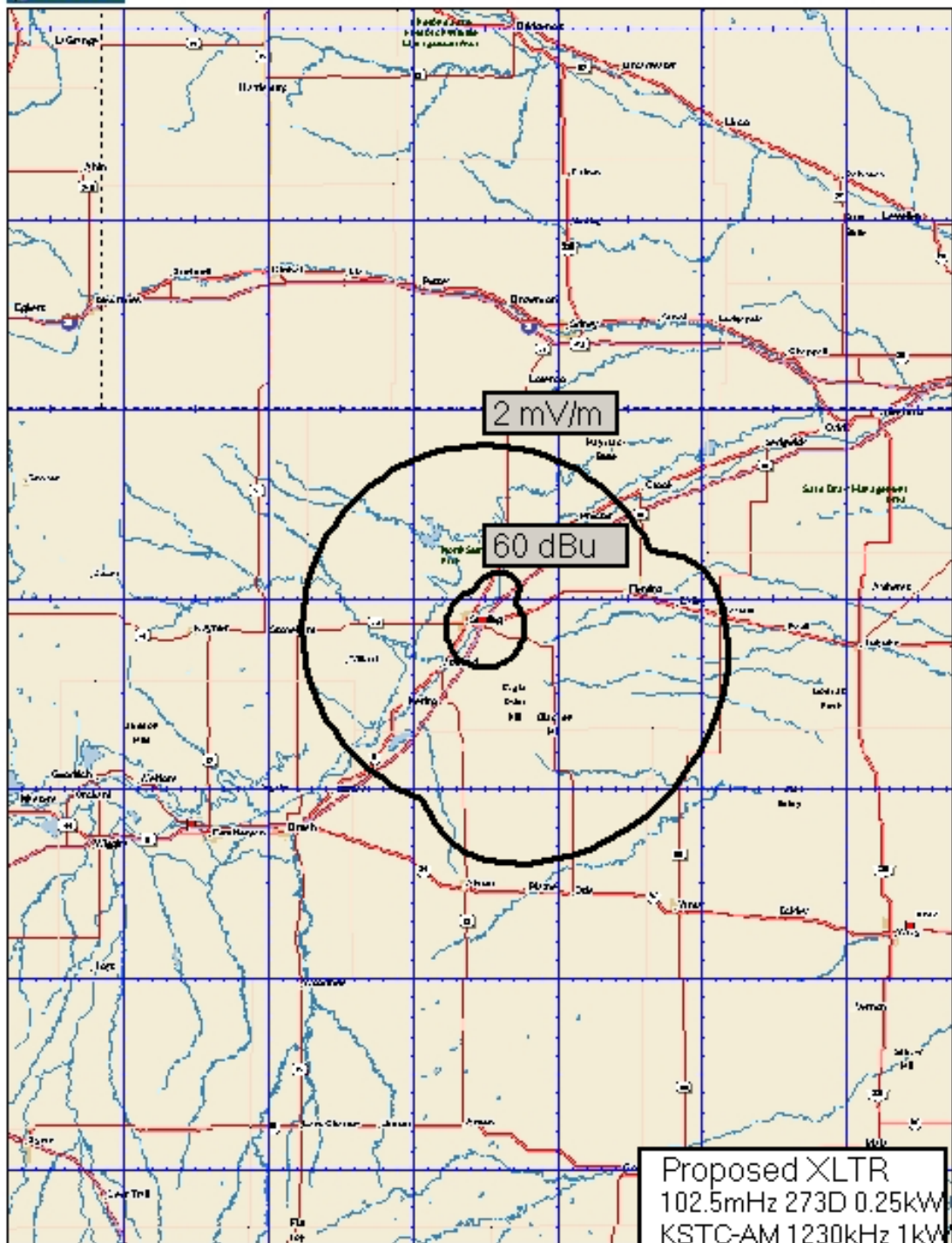
The proposed translator will provide desirable fill in service for KSTC in the public interest.

Respectfully submitted



Timothy C. Cutforth, P.E.

29 November 2017



2 mV/m

60 dBu

Proposed XLTR
102.5MHz 273D 0.25kW
KSTC-AM 1230kHz 1kW ND

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North Arrow
MAG. (7.0° E)

Scale Bar
0 4 8 12 16 20 24 28
Miles
Delta Zoom 6-0

FM Study for: K273KSTC

FCC Database Date: 11/24/2017

40-37-04

Location: STERLING, CO

Channel Class: D

103-10-41

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 273 102.5 mHz <<<<<<<<

K220IM	BRUSH, CO	220 D	91.9 .250	40-16-30	54.8	0	
LIC	Fac. No. 92692	BLFT-20100709AGZ	50`	103-38-33	226.1	+54.8	CLEAR
KPNY	ALLIANCE, NE	272 C0	102.3 100.	41-50-28	136.1	111	
LIC	Fac. No. 25879	BLH-20131205ACP	412`	103-04-27	3.6	+25.1	CLEAR
K273KS	F(50,10) 54 dBu =	10 km, KPNY	F(50,50) 60 dBu =	85 KM	+41 km		CLEAR
KTRR	LOVELAND, CO	273 C2	102.5 17.0	40-38-31	138.7	96	73.215
LIC	Fac. No. 50375	BLH-20051107AEI	234`	104-49-03	271.6	+42.7	CLEAR
K273KS	F(50,10) 40 dBu =	24 km, KTRR	F(50,50) 60 dBu =	53 KM	+62 km		CLEAR
KADL	IMPERIAL, NE	275 C1	102.9 100.	40-30-46	130.4	73	
CP	Fac. No. 88537	BPH-20160628AAI	62`	101-38-42	94.6	+57.4	CLEAR
K273KS	F(50,10) 100 dBu =	1 km, KADL	F(50,50) 60 dBu =	35 KM	+95 km		CLEAR
K276CX	SIDNEY, NE	276 D	103.1 .009	41-09-00	61.5	14	
LIC	Fac. No. 35640	BLFT-20050105AAV	22`	102-58-30	16.1	+47.5	CLEAR
K273KS	F(50,10) 100 dBu =	1 km, K276CXF(50,50)	60 dBu =	3 KM	+58 km		CLEAR
KFWA	WELDONA, CO	276 C3	103.1 6.80	40-14-44	75.6	40	
LIC	Fac. No. 79249	BMLD-20150915AGB	46`	103-55-29	237.1	+35.6	CLEAR
K273KS	F(50,10) 100 dBu =	1 km, KFWA	F(50,50) 60 dBu =	25 KM	+50 km		CLEAR