

**EXHIBIT 12
DODGE CITY, KS
CHANNEL 287
E-STRING WIRELESS, LTD
BNPFT 20030317HQI
FAC ID 156448**

This long form application is submitted on behalf of E-String Wireless, LTD as instructed in FCC DA 13 – 1675.

This application is outside of all Grid Markets and does not preclude any LPFM opportunities in any of those markets.

KSSA Fac ID 77873, third channel adjacent is 40 km distance from the site of this application. As this application places the translator F(50,10) contour inside the protected F(50,50) contour of KSSA , FCC curve tool was used to calculate the D/U . At the translator site the field strength of KSSA is 71.7 dbu. The D/U ratio is 40 dbu for second and third channel adjacent, therefore the corresponding translator F(50,10) contour is 111.7 dbu. Inside this contour there are no persons thus this application does not create any interference to KSSA.

Results -- FM and TV Propagation Curves Calculations

Free Space equation used, not curves

Results of Calculation

Distance to Contour = 0.288 km

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For input data from Pages 1 and 2:

ERP entered = 0.250 kW
HAAT entered = 80.00 meters
Field Strength entered = 111.700 dBu
Find the Distance to the Contour, Given a Field Strength
F(50,10) curves for interfering contours
FM and NTSC analog TV Channels 2 through 6

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Comments on this program may be referred to [Dale Bickel](#)

Results -- FM and TV Propagation Curves Calculations

Free Space equation used, not curves

Results of Calculation

Distance to Contour = 0.258 km

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For input data from Pages 1 and 2:

ERP entered = 0.200 kW

HAAT entered = 80.00 meters

Field Strength entered = 111.700 dBu

Find the Distance to the Contour, Given a Field Strength

F(50,10) curves for interfering contours

FM and NTSC analog TV Channels 2 through 6

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Channel Clearance Study ch 287

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KSSA	KS	INGALLS	105.9	290	100000	C1	LIC	40	0	-13.18 dB
NEW	KS	DODGE CITY	94.7	234	250	D	APP	12.36	0	12.4
KZQD	KS	LIBERAL	105.1	286	50000	C2	LIC	107.29	0	19.14 dB
KXNC	KS	NESS CITY	104.7	284	16500	C1	LIC	104.39	0	21.19 dB
KFBZ	KS	HAYSVILLE	105.3	287	98000	C0	LIC	219.92	0	27.00 dB
KZQD	KS	LIBERAL	105.1	286	0	C2	USE	87.23	0	31.25 dB
KSSA	KS	INGALLS	105.9	290	0	C1	USE	40	0	32.34 dB
KFBZ	KS	HAYSVILLE	105.3	287	44000	C0	LIC	244.22	0	35.57 dB
KRDR	OK	ALVA	105.7	289	50000	C2	CP	165.18	0	35.62 dB
KRMR	KS	HAYS	105.7	289	20500	C2	LIC	149.28	0	36.55 dB
KFBZ	KS	HAYSVILLE	105.3	287	0	C0	USE	219.92	0	39.42 dB

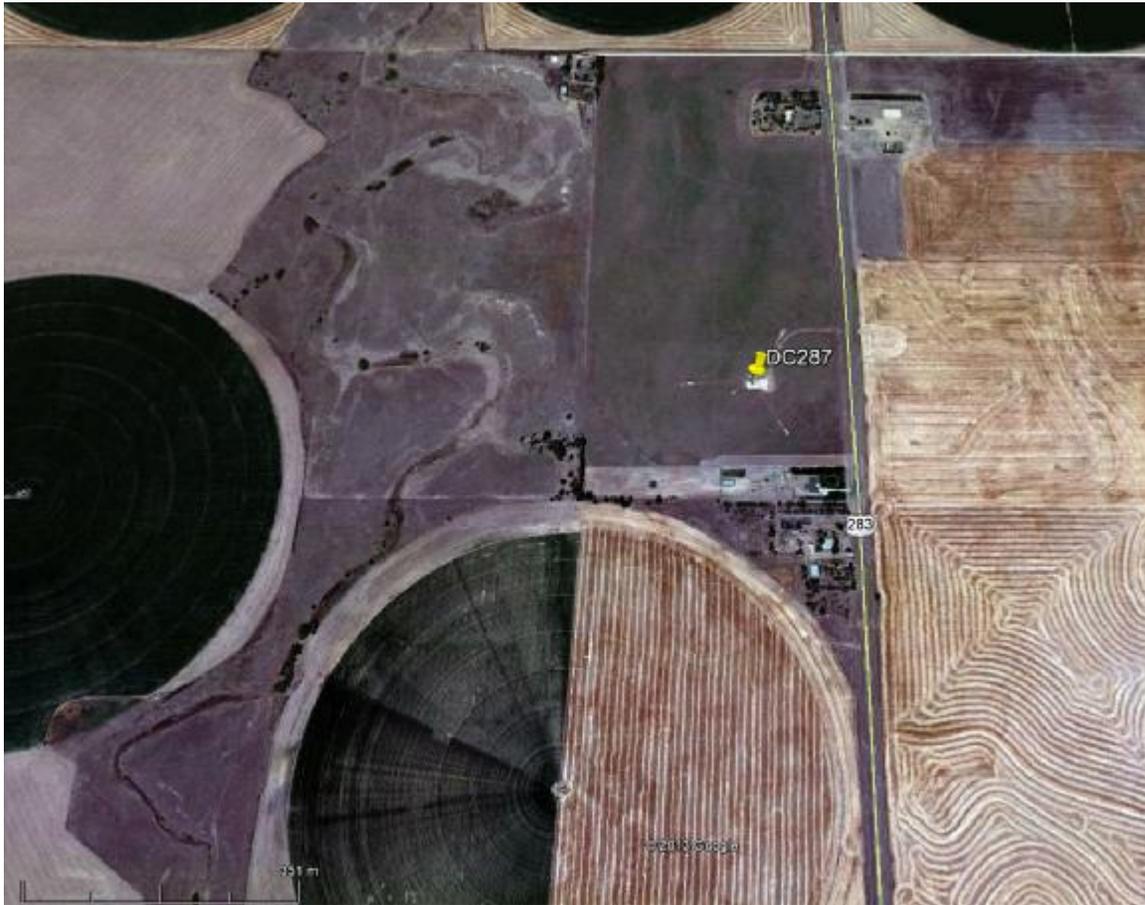


Exhibit 13 Overlap 74.1204

Environmental – RFE Statement

EPA/RFE – RF exposure of this application is calculated to be $0.7 \mu\text{W}/\text{cm}^2$ or 0.35% of the $200 \mu\text{W}/\text{cm}^2$ uncontrolled exposure allowable by FCC guidelines.

Applicant will reduce power or cease operations whenever there are personnel working on the tower.