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ENGINEERING REPORT

Rosenberg, TX, Channel 241D FM Translator Application

ENGINEERING STATEMENT

Primera Iglesia Evangelica de Apostoles y Profetas ("Applicant") proposes this minor change to K294BH, an FM translator station at Simonton, TX.

This filing includes a site change and community change (to Rosenberg, TX) along with a channel displacement from 294 to 241. The displacement from channel 294 to channel 241 is deemed a minor change pursuant to Section 74.1233(a) of the FCC Rules.

CHANNEL STUDY

Attached as Figure EE1 is a channel study for the proposed channel 241D facility. All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KKHH 239C and KHMx 243C, both licensed to Houston, TX. KKHH and KHMx are protected, as discussed below.

CONTOUR OVERLAP SHOWING

Figure EE2, attached, is a map that shows contour overlap between the licensed K294BH facility and the proposed 241D facility, as required for a minor change application.

Figure EE3, attached, show non-overlap between the service contour of KIOX-FM and the interference contour of the proposed channel 241D facility. All contours were determined pursuant to Section 73.313 of the FCC Rules using a USGS 30 arc-second terrain database at one-degree radial intervals.

PROTECTION TO KKHH AND KHMx

KKHH and KHMx are both second adjacent-channel to the proposed channel 241D facility and are both located at the same transmitter site and only 31.0 kilometers

(at 89 degrees True bearing) from the proposed 241D transmitter site. The 60 dBu F50,50 service contours of KKHH and KHMx are the same (KKHH and KHMx share the same facilities at the same transmitter site) and extend well beyond the proposed 241D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KKHH and KHMx.

Note that a rule waiver of Section 74.1204 for this second/third adjacent-channel protection using the well-established *Living Way Ministries* Methodology is respectfully requested if such a rule waiver is deemed necessary for protection to this station.

The F50,50 signal strength from KKHH/KHMx at the proposed 241D transmitter site is 86.5 dBu (the “desired” signal). The second/third adjacent-channel protection of Section 74.1204 is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to KKHH/KHMx from the proposed 241D facility is a signal of greater than or equal to 126.5 dBu.

The 126.5 dBu signal based on a free space field determination is predicted to extend out to 53 meters from the proposed 241D transmitter site. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KKHH and KHMx are both adequately protected by the proposed facility.

JULY 31, 2013

SECTION 74.1204 CHANNEL STUDY**PROJECT: ROSENBERG, TX, 241D FROM PROPOSED SITE****STUDY COORDINATES: N 29-34-16.0; W 95-49-47.0 (N D-M-S; W D-M-S)**

Call Docket	Channel FacilityID	Class Service	Frequency ERP	Status DA?	City HAAT	State RCAMSL	Country RCAGL	File Number
Latitude	Longitude			ASRN	Dist (km)	Dist (mi)	Azimuth	
KKHH	239	C FM	95.7 MHz	LIC	HOUSTON	TX	US	BMLH-20060127AFY
-	25449		100. kW		585. m	605. m	581. m	
N 29 34	34.00	W	95 30 36.00	-		30.99 km	19.25 mi	88.89°
CBS RADIO TEXAS INC.								

NOTE: A SHOWING BASED ON THE LIVING WAY MINISTRIES METHODOLOGY TO THIS STATION IS INCLUDED WITH THIS APPLICATION THAT DEMONSTRATES PROTECTION TO THIS FACILITY.

KIOX-FM	241	C3 FM	96.1 MHz	LIC	EDNA	TX	US	BLH-19980923KB
-	27226		13. kW		139. m	159. m	137. m	
N 29 6	5.00	W	96 27 19.00	1057012		80.01 km	49.72 mi	229.41°
BUCKALEW MEDIA, INC.								

**Protected Contour Dist: 39.9 km Prop 241D Interf Contour Dist: 44.0 km
Result: -3.9 km SHORT (WORST-CAST STUDY); See Contour Non-overlap Showing**

KHMX	243	C FM	96.5 MHz	LIC	HOUSTON	TX	US	BMLH-20090814AAR
-	47749		100. kW		585. m	605. m	581. m	
N 29 34	34.00	W	95 30 36.00	1050005		30.99 km	19.25 mi	88.89°
CBS RADIO STATIONS INC.								

NOTE: A SHOWING BASED ON THE LIVING WAY MINISTRIES METHODOLOGY TO THIS STATION IS INCLUDED WITH THIS APPLICATION THAT DEMONSTRATES PROTECTION TO THIS FACILITY.

Study Complete

FIGURE EE2: K294BH to ROSENBERG, TX, 241D
MAP SHOWING LICENSED & PROPOSED CONTOUR OVERLAP

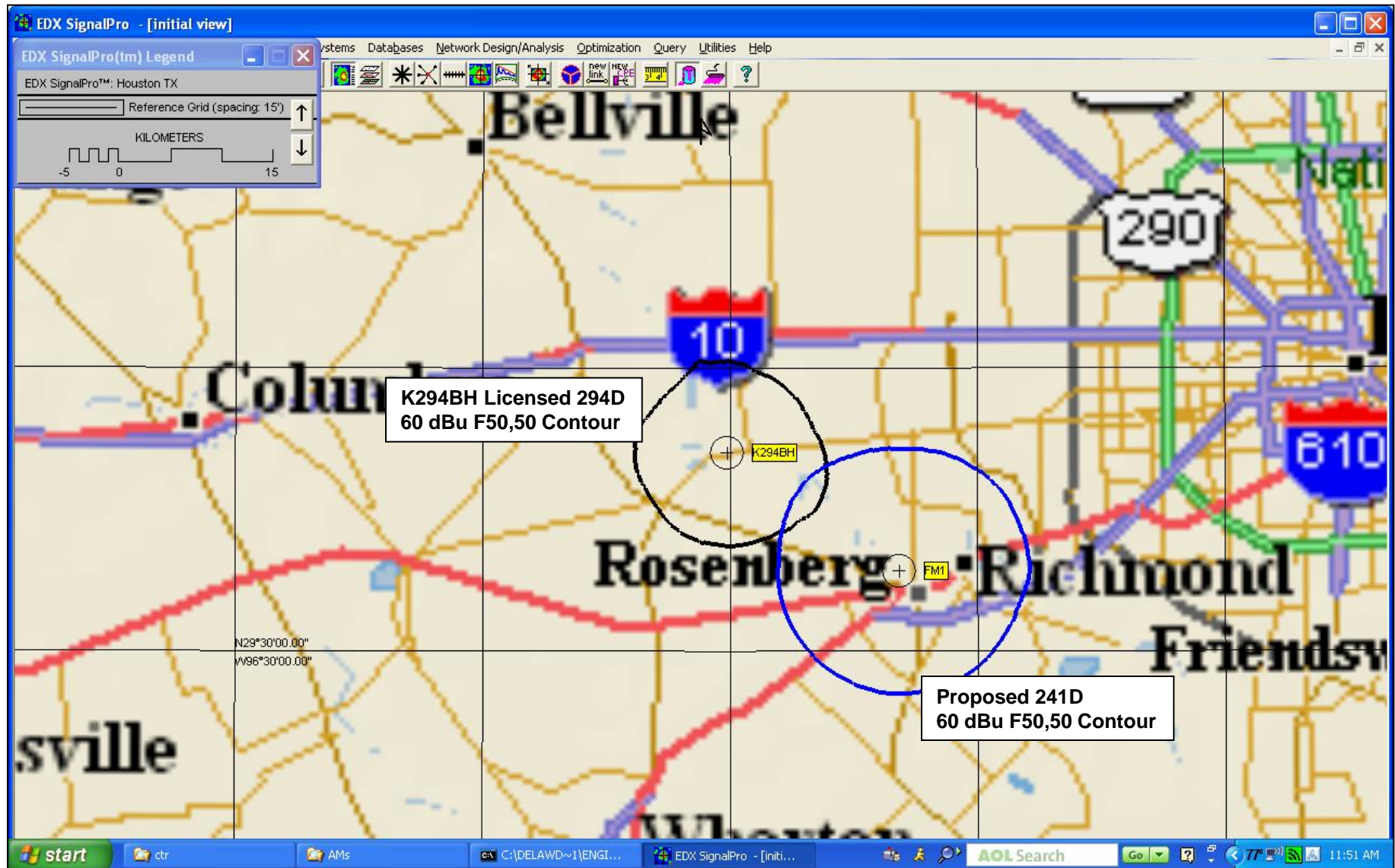


FIGURE EE3

PROPOSED 241D Contour Non-Overlap Showing to KIOX-FM

