

ENGINEERING EXHIBIT

Displacement Application for Flashcut Digital Low Power Television Station

prepared for

Eagle Creek Broadcasting of Laredo, LLC

KNEX-LP Laredo, TX

Facility ID 40244

Ch. 14 (digital) 13.1 kW

Eagle Creek Broadcasting of Laredo, LLC (“*Eagle Creek*”) is the licensee of Low Power Television (“LPTV”) station KNEX-LP, Facility ID 40244, Laredo, TX (BLTTL-20100827ABI). The KNEX-LP licensed analog operation on Channel 55 is displaced pursuant to §73.3572(a)(4)(ii). *Eagle Creek* proposes herein to change KNEX-LP to Channel 14 and “flash cut” to digital operation.

By way of background, pursuant to the procedures in FCC 11-110¹, a displacement application for KNEX-LP to move to a core channel was filed on August 19, 2011 (BDISDTL-20110819ABU). The displacement application BDISDTL-20110819ABU specified digital operation on Channel 42. Also as required by FCC 11-110, the KNEX-LP Channel 55 operation ceased operation by December 31, 2011. KNEX-LP has been silent since December 30, 2011 (BLSTA-20111230AAA).

The site proposed in BDISDTL-20110819ABU is within one kilometer of the border with Mexico and is therefore within the border zone requiring international coordination. Mexico has objected to the Channel 42 operation at Laredo.

As proposed herein, KNEX-LP will operate on Channel 14 as digital using a “stringent” out of channel emission mask. The proposed facility will employ a new antenna system to be side-

¹*Amendment of Parts 73 and 74 of the Commission's Rules to Establish Rules for Digital Low Power Television, Television Translator, and Television Booster Stations and to Amend Rules for Digital Class A Television Stations, Second Report and Order, MB Docket 03-185, FCC 11-110, released July 15, 2011.*

mounted on an existing tower structure associated with Antenna Structure Registration number 1051406. No change to the overall structure height is proposed. The proposed site is located 15 km from the licensed site. Figure 1 depicts the 51 dB μ coverage contour of the proposed facility with the 74 dB μ contour of the licensed analog facility. The service area overlap shown demonstrates compliance with §73.3572 for a minor change.

Interference study per OET Bulletin 69² shows that the proposal complies with the Commission's interference protection requirements toward all digital television, television translator, LPTV, and Class A stations. The results, summarized in Table 1, show that any new interference does not exceed the Commission's interference limits (0.5 percent to full power and Class A stations, and 2.0 percent to secondary stations) to any facility except with respect to those described below which do not present a conflict for the proposal.

- A. 89.4 percent interference is predicted to be caused to the application for a new digital LPTV station on Ch. 14, Laredo, TX, BNPDVL-20090825ARR.
- B. 99.3 percent interference is predicted to be caused to the application for a new digital LPTV station on Ch. 14, Laredo, TX, BNPDVL-20090825BDY.

Pursuant to §73.3572(a)(4)(ii), the KNEX-LP displacement flash-cut application has priority over these non-displacement applications. Accordingly, the instant proposal complies with §74.793 regarding interference protection to digital television, low power television, television translator, and Class A television facilities.

The site proposed herein for Channel 14 (the same site specified in BDISDTL-20110819ABU) is within one kilometer of the border with Mexico and therefore is within the international coordination zone. Channel 14 at Laredo TX was allotted as a full-power channel in Appendix B³ of the 1998 DTV table of allotments for the pre-transition period. An

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A cell size of 1 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

³*Advanced Television Systems and Their Impact upon the Existing Television Broadcast Service*, Memorandum Opinion And Order On Reconsideration of the Sixth Report And Order, MB Docket 87-268, FCC 98-24, released February 23, 1998.

excerpt of the 1998 Appendix B is provided in Table 2, showing the Channel 14 allotment at Laredo. The full-power Channel 14 allotment specified 143.5 kW effective radiated power (“ERP”) and 280 meters antenna height above average terrain (“HAAT”) based on the same site location as that proposed herein for KNEX-LP. The full-power station’s post-transition permanent digital operation is now on another channel and Channel 14 is not in use at Laredo by any full-power station. The proposed 13.1 kW ERP KNEX-LP facility is substantially smaller than (and its contours do not exceed) the Channel 14 full-power allotment as demonstrated on Figure 2. FCC International Bureau staff advises that the use of Channel 14 at Laredo for digital LPTV will not require additional international coordination since it is covered by the previous full-power allotment.

The nearest FCC monitoring station is 162 km distant at Kingsville, TX. This exceeds the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with quiet zones specified in §73.1030(a) and (b). There are no authorized directional AM stations within 3.2 kilometers or nondirectional AM stations within 0.8 km of the site.

Human Exposure to Radiofrequency Electromagnetic Field

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission’s OET Bulletin Number 65. Based on OET-65 equation (10) and considering 15 percent antenna relative field in downward elevations, the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $0.3 \mu\text{W}/\text{cm}^2$ which is 0.1 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal’s contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC’s guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

This exhibit is limited to the evaluation of exposure to RF electromagnetic field. The proposal involves installation of a side-mounted transmitting antenna on an existing antenna support structure which was constructed March 16, 2001. No change in structure height is proposed.

Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



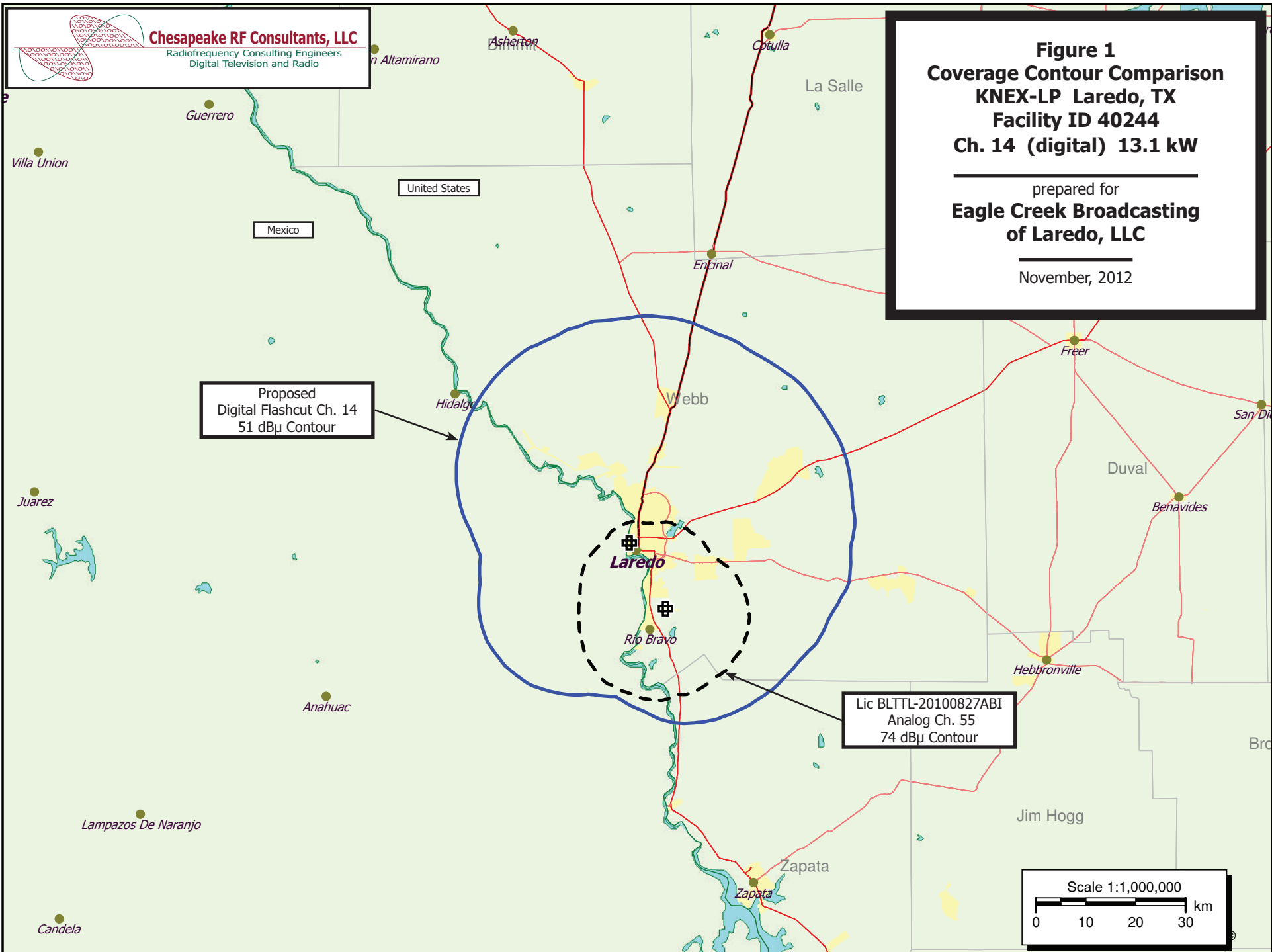
Joseph M. Davis, P.E.
November 15, 2012

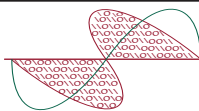
Chesapeake RF Consultants, LLC
207 Old Dominion Road
Yorktown, VA 23692
703-650-9600

List of Attachments

Figure 1	Coverage Contour Comparison
Figure 2	International Coordination
Table 1	Interference Analysis Results Summary
Table 2	Excerpt from 1998 Appendix B Allotment Table
Form 346	Saved Version of Engineering Sections from FCC Form at Time of Upload

This material was entered November 15, 2012 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's account number and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.





Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 2
International Coordination
KNEX-LP Laredo, TX
Facility ID 40244
Ch. 14 (digital) 13.1 kW

prepared for
Eagle Creek Broadcasting
of Laredo, LLC

November, 2012

FCC 98-24 6th R&O Recon
1998 Appendix B
MB Docket 87-268
Digital Ch. 14 Laredo, TX
143.5 kW 280 m HAAT
51 dBμ F(50,90) Contour
41 dBμ F(50,90) Contour

Proposed KNEX-LP 13.1 kW
Digital Flashcut Ch. 14
51 dBμ F(50,90) Contour
41 dBμ F(50,90) Contour

Scale 1:1,500,000

0 20 40 60 km

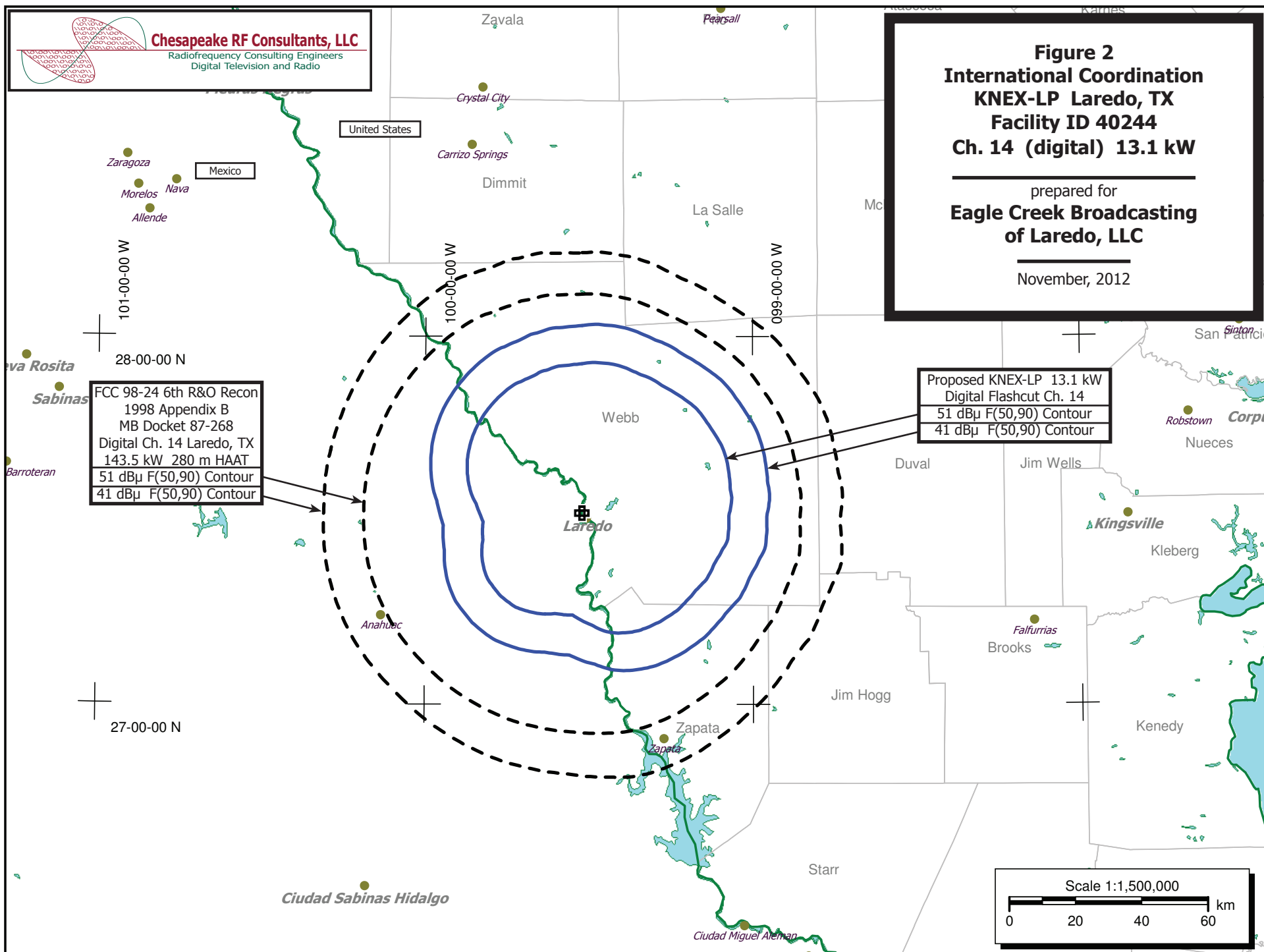


Table 1

Interference Analysis Results Summary

prepared for

Eagle Creek Broadcasting of Laredo, LLC

KNEX-LP Laredo, TX



KNEX-LP	USERRECORD-01	LAREDO	TX US
Channel 14	ERP 13.1 kW	HAAT 163. m	RCAMSL 00309 m
Latitude 027-31-12		Longitude 0099-31-19	
Dir Antenna	Make usr	Model AND-M	Beam tilt N Ref Azimuth 45.

Ch.	Call	City/State	Dist (km)	Status	Application Ref. No.	---Population (2000 Census)---	
						Baseline	New Interference
14	KVAT-LD	AUSTIN TX	353.8	APP	BDISDTL-20090617ACF	---	none
14	KXPX-LP	CORPUS CHRISTI TX	211.5	LIC	BLTTL-20000207ABO	---	none
14	KXPX-LP	CORPUS CHRISTI TX	211.5	APP	BPTTL-20000804ADO	---	none
14	NEW	DEL RIO TX	243.5	APP	BNPDTL-20090825BLI	---	none
14	NEW	EAGLE PASS TX	163.2	APP	BMJADTL-20100519ABF	---	none
14	NEW	LAREDO TX	15.0	APP	BNPDTL-20090825ARR	162,128	145,066 (89.4%) *
14	NEW	LAREDO TX	0.5	APP	BNPDTL-20090825BDY	183,851	182,607 (99.32%) *
14	KNTA-LP	NEW BRAUNFELS TX	281.2	LIC	BLTTL-20071231AAM	---	none
14	K14LM	SAN ANTONIO TX	235.5	LIC	BLTTA-20031022AAB	---	none
14	NEW	SONORA TX	340.8	APP	BNPDTL-20100406ABT	---	none
15	NEW	LAREDO TX	0.5	APP	BNPDTL-20090825BDV	162	0 (0.00%)
15	KLMV-LD	LAREDO TX	0.5	LIC	BLDTL-20110706ABB	190,980	108 (0.06%)
15	KJST-LP	MCALLEN TX	190.0	APP	BDISDTL-20110425ABF	---	none
15	NEW	MCALLEN TX	140.9	APP	BNPDTL-20091030ADM	---	none
15	K15BV	UVALDE TX	186.7	LIC	BLTT-19970127JB	---	none

* Note: Pursuant to §73.3572(a)(4)(ii), the KNEX-LP displacement flash-cut application has priority over these non-displacement applications.

STATE AND CITY	NTSC CHAN	DTV CHAN	DTV POWER (kW)	ANTENNA HAAT (m)	DIGITAL TELEVISION SERVICE DURING TRANSITION		EXISTING NTSC				DTV/ NTSC AREA MATCH (%)
					AREA (Sq km)	PEOPLE (thous)	CURRENT SERVICE		NEW INTERFERENCE		
							AREA (Sq km)	PEOPLE (thous)	AREA (% NL Area)	PEOPLE (% NL Pop)	
TX FORT WORTH	5	41	1000.0	514.0	45441	4404	39610	4227	0.0	0.0	100.0
TX FORT WORTH	11	19	552.2	509.0	39460	4217	34825	4150	1.0	0.1	100.0
TX FORT WORTH	21	18	220.0	503.0	26985	4045	27744	4053	0.9	0.1	97.1
TX FORT WORTH	52	51	172.9	328.0	14497	3809	14188	3802	0.0	0.0	99.9
TX GALVESTON	22	23	246.6	566.0	30569	3689	30801	3696	0.0	0.0	99.2
TX GALVESTON	48	47	168.1	358.0	18400	3461	18133	3350	0.0	0.0	99.8
TX GARLAND	23	24	172.9	348.0	12957	3159	12589	3047	1.7	0.4	100.0
TX GREENVILLE	47	46	50.0	155.0	2533	70	2533	70	0.0	0.0	100.0
TX HARLINGEN	4	31	1000.0	396.0	38632	687	36762	686	0.0	0.0	100.0
TX HARLINGEN	44	34	50.0	296.0	13869	657	13869	657	0.0	0.0	100.0
TX HARLINGEN	60	38	50.0	372.0	14082	661	14082	661	0.0	0.0	100.0
TX HOUSTON	2	35	1000.0	588.0	50318	3934	44930	3865	0.0	0.0	100.0
TX HOUSTON	8	9	8.4	564.0	36969	3852	37240	3850	0.3	0.0	98.4
TX HOUSTON	11	31	785.4	570.0	44534	3901	42875	3879	0.0	0.0	100.0
TX HOUSTON	13	32	796.8	588.0	44297	3900	41721	3870	0.0	0.0	100.0
TX HOUSTON	14	24	277.1	438.0	25772	3782	25619	3781	0.1	0.0	100.0
TX HOUSTON	20	19	239.0	552.0	27880	3788	27863	3788	0.6	0.1	100.0
TX HOUSTON	26	27	239.1	594.0	31352	3825	31101	3816	0.4	0.1	100.0
TX HOUSTON	39	38	208.4	594.0	27711	3779	27530	3776	0.0	0.0	100.0
TX HOUSTON	61	44	122.2	429.0	20486	3695	20482	3695	0.0	0.0	100.0
TX IRVING	49	48	181.4	365.0	19464	3910	19323	3907	0.5	0.2	100.0
TX JACKSONVILLE	56	22	101.2	482.0	19968	553	19872	552	2.3	2.7	99.9
TX KATY	51	52	70.9	500.0	20118	3688	20050	3687	0.0	0.0	100.0
TX KERRVILLE	35	32	207.4	536.0	23092	1416	22701	1411	1.6	1.4	99.8
TX KILLEEN	62	23	50.0	408.0	16884	540	16864	540	0.0	0.0	99.4
TX LAKE DALLAS	55	54	70.7	142.0	10413	3602	10253	3565	0.0	0.0	100.0
TX LAREDO	8	15	526.4	312.0	26393	140	25684	137	0.0	0.0	99.9
TX LAREDO	13	14	143.5	280.0	19978	143	20347	143	8.6	5.3	95.8
TX LAREDO	27	19	81.0	67.0	6996	132	6972	132	0.0	0.0	100.0
TX LLANO	14	27	174.1	269.0	18908	236	17301	119	6.9	4.9	99.9
TX LONGVIEW	51	52	169.0	381.0	17537	536	17275	521	0.6	0.4	99.7
TX LUBBOCK	5	39	1000.0	226.0	28414	364	28269	364	0.0	0.0	99.8
TX LUBBOCK	11	43	1000.0	232.0	25326	351	24403	349	1.8	0.3	100.0
TX LUBBOCK	13	38	1000.0	268.0	25086	342	24059	342	0.0	0.0	100.0
TX LUBBOCK	16	25	50.0	83.0	5191	235	5179	235	0.3	0.0	100.0
TX LUBBOCK	28	27	52.7	256.0	16287	300	16194	300	1.3	0.0	100.0
TX LUBBOCK	34	35	121.0	256.0	14190	295	14980	295	0.0	0.0	94.5
TX LUFKIN	9	43	813.3	204.0	17819	221	16010	206	8.8	10.0	99.7
TX MCALLEN	48	46	80.1	288.0	14991	658	14959	656	0.0	0.0	100.0
TX MIDLAND	2	26	1000.0	323.0	34576	345	33060	341	0.0	0.0	100.0
TX NACOGDOCHES	19	18	50.0	222.0	8477	141	8445	140	6.7	3.1	100.0
TX ODESSA	7	31	1000.0	226.0	25478	279	25006	278	0.0	0.0	100.0

B-36



Table 2
Excerpt from 1998 Appendix B Allotment Table
FCC 98-24 6th R&O Recon MB Docket 87-268
KNEX-LP Laredo, TX
Facility ID 40244
Ch. 14 (digital) 13.1 kW

prepared for
Eagle Creek Broadcasting
of Laredo, LLC

November, 2012

Section III - Engineering (Digital)																																																																																															
TECHNICAL SPECIFICATIONS Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.																																																																																															
TECH BOX																																																																																															
1.	Channel: 14																																																																																														
2.	Translator Input Channel No. :																																																																																														
3.	Primary station proposed to be rebroadcast: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Facility Identifier</td> <td style="width: 25%;">Call Sign</td> <td style="width: 25%;">City</td> <td style="width: 25%;">State</td> <td style="width: 20%;">Channel</td> </tr> </table>											Facility Identifier	Call Sign	City	State	Channel																																																																															
Facility Identifier	Call Sign	City	State	Channel																																																																																											
4.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 27 Minutes 31 Seconds 12 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 99 Minutes 31 Seconds 19 <input checked="" type="radio"/> West <input type="radio"/> East																																																																																														
5.	Antenna Structure Registration Number: 1051406 <input type="checkbox"/> Not Applicable [Exhibit 11] <input type="checkbox"/> Notification filed with FAA																																																																																														
6.	Antenna Location Site Elevation Above Mean Sea Level: 126.3 meters																																																																																														
7.	Overall Tower Height Above Ground Level: 315.5 meters																																																																																														
8.	Height of Radiation Center Above Ground Level: 182.9 meters																																																																																														
9.	Maximum Effective Radiated Power (ERP): 13.1 kW																																																																																														
10.	Transmitter Output Power: 1 kW																																																																																														
11.	a. Transmitting Antenna: Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under CDBS Public Access (http://licensing.fcc.gov/prod/cdb/publicacc/prod/cdb_pa.htm). Make sure that the Standard Pattern is marked Yes and that the relative field values shown match your values. Enter the Manufacturer (Make) and Model exactly as displayed in the Antenna Search. <input type="radio"/> Nondirectional <input type="radio"/> Directional Off-the Shelf <input checked="" type="radio"/> Directional composite Manufacturer ERI Model AL8M-14 b. Electrical Beam Tilt: 1.75 degrees <input type="checkbox"/> Not Applicable c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable																																																																																														
	d. Directional Antenna Relative Field Values: <input type="checkbox"/> N/A (Nondirectional or Off-the-Shelf) Rotation (Degrees): 45 <input type="checkbox"/> No Rotation <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th></tr> </thead> <tbody> <tr> <td>0</td><td>1</td><td>10</td><td>0.988</td><td>20</td><td>0.954</td><td>30</td><td>0.907</td><td>40</td><td>0.848</td><td>50</td><td>0.784</td></tr> <tr> <td>60</td><td>0.723</td><td>70</td><td>0.667</td><td>80</td><td>0.612</td><td>90</td><td>0.553</td><td>100</td><td>0.488</td><td>110</td><td>0.414</td></tr> <tr> <td>120</td><td>0.327</td><td>130</td><td>0.246</td><td>140</td><td>0.203</td><td>150</td><td>0.215</td><td>160</td><td>0.261</td><td>170</td><td>0.305</td></tr> <tr> <td>180</td><td>0.322</td><td>190</td><td>0.305</td><td>200</td><td>0.261</td><td>210</td><td>0.215</td><td>220</td><td>0.203</td><td>230</td><td>0.246</td></tr> <tr> <td>240</td><td>0.327</td><td>250</td><td>0.414</td><td>260</td><td>0.488</td><td>270</td><td>0.553</td><td>280</td><td>0.612</td><td>290</td><td>0.667</td></tr> <tr> <td>300</td><td>0.723</td><td>310</td><td>0.784</td><td>320</td><td>0.848</td><td>330</td><td>0.907</td><td>340</td><td>0.954</td><td>350</td><td>0.988</td></tr> </tbody> </table> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Additional Azimuths</div>											Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	0	1	10	0.988	20	0.954	30	0.907	40	0.848	50	0.784	60	0.723	70	0.667	80	0.612	90	0.553	100	0.488	110	0.414	120	0.327	130	0.246	140	0.203	150	0.215	160	0.261	170	0.305	180	0.322	190	0.305	200	0.261	210	0.215	220	0.203	230	0.246	240	0.327	250	0.414	260	0.488	270	0.553	280	0.612	290	0.667	300	0.723	310	0.784	320	0.848	330	0.907	340	0.954	350	0.988
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	e. Does the proposed antenna propose elevation radiation patterns that vary with azimuth for <input type="radio"/> Yes <input checked="" type="radio"/> No																																																																																														

reasons other than the use of mechanical beam tilt?

[Exhibit 12]

If Yes, attach an Exhibit (see instructions for details).

Relative Field Polar Plot

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

12. **Out-of-channel Emission Mask:** ☐ Simple ☒ Stringent ☐ Full Service

CERTIFICATION

13. **Interference :** The proposed facility complies with all of the following applicable rule sections. 47.C.F.R Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030. ☒ Yes ☐ No
See Explanation in [Exhibit 13]

14. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance, an **Exhibit is required.** ☒ Yes ☐ No
See Explanation in [Exhibit 14]

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

15. **Channels 52-59.** If the proposed channel is within channels 52-59, the applicant certifies compliance with the following requirements, as applicable:

☐ The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.

☐ Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licenses of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.

16. **Channels 60-69.** If the proposed channel is within channels 60-69, the applicant certifies compliance with the following requirements, as applicable:

☐ Pursuant to Section 74.786(e), the applicant has notified, within 30 days of filing this application, all commercial wireless licenses of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.

☐ Pursuant to Section 74.786(e), the applicant proposing operation on channel 63, 64, 68 and 69 ("public safety channels") has secured a coordinated spectrum use agreements(s) with 700 MHz public safety regional planning committee(s) and state administrator(s) of the region(s) and state(s) within which the antenna site of the digital LPTV or TV translator station is proposed to locate, and those adjoining regions and states with boundaries within 75 miles of the proposed station location.

☐ Pursuant to Section 74.786(e), the applicant for a channel adjacent to channel 63, 64, 68 or 69 has notified, within 30 days of filing this application, the 700 MHz public safety regional planning committee(s) and state administrator(s) of the region and state containing the proposed digital LPTV or TV translator antenna site and regions and states whose geographic boundaries lie within 50 miles of the proposed LPTV or TV translator antenna site.

PREPARERS CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.

SECTION III PREPARER'S CERTIFICATION

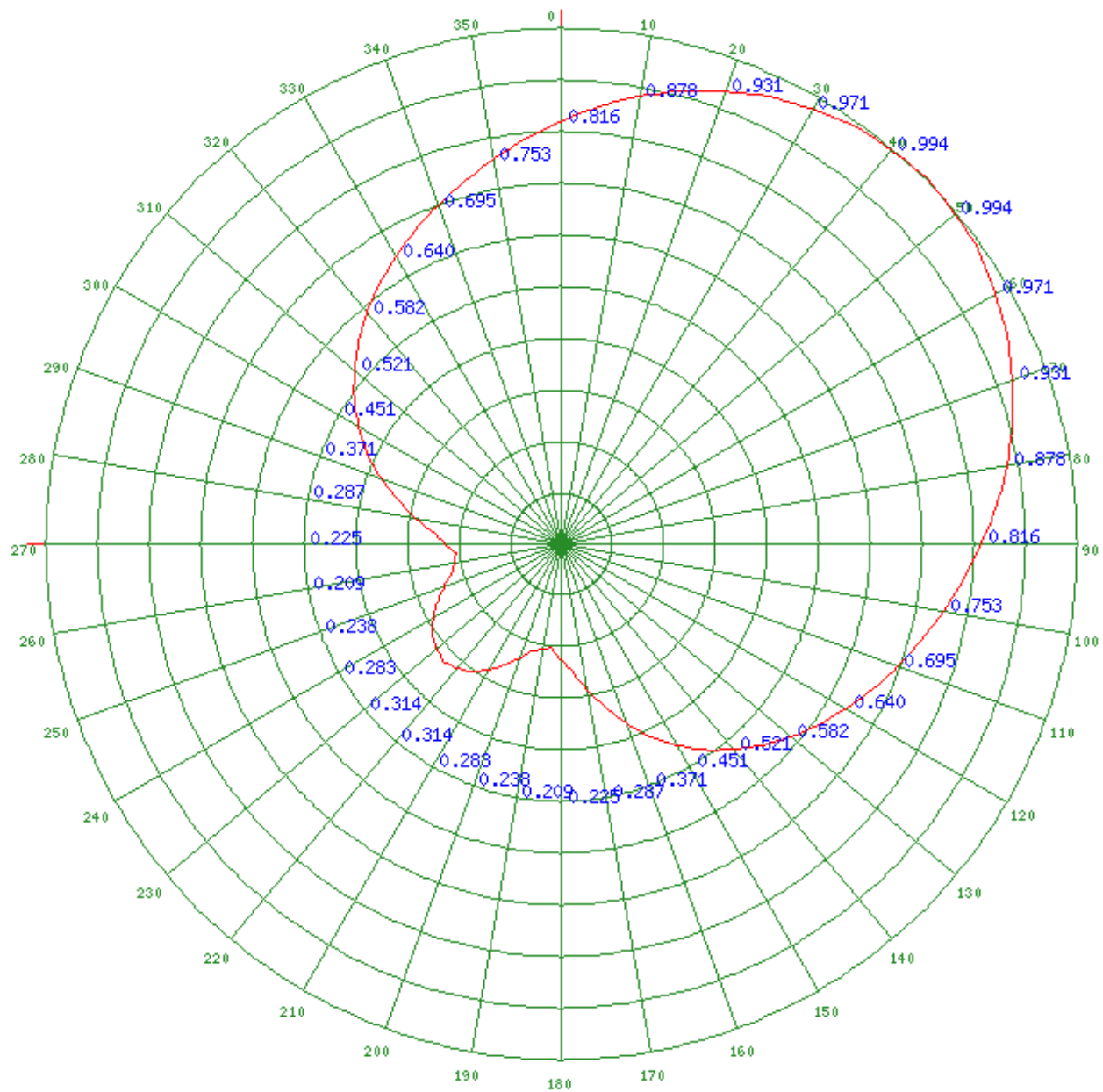
I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 11/15/2012	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 207 OLD DOMINION ROAD		
City YORKTOWN	State or Country (if foreign address) VA	Zip Code 23692 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	

Any specified rotation has already been applied to the plotted pattern.

Field strength values shown on a rotated pattern may differ from the listed values because intermediate azimuths are interpolated between entered azimuths.

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