



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN APPLICATION FOR  
A MINOR MODIFICATION OF A  
POST REPACK CONSTRUCTION PERMIT  
FILE # 0000027431  
WWHB-CA - STUART, FLORIDA  
DTV - CH. 33 - 15 kW - 293.3 m HAAT**

Prepared for: WTVX LICENSEE, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

**GENERAL**

This office has been authorized by WTVX LICENSEE, LLC, licensee of WWHB-CA, channel 48, facility ID number 63557, licensed to Stuart, Florida, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an application for a minor modification of its post-reassignment construction permit, File # 0000027431, that authorizes WWHB-CA to use channel 33 for its post-reassignment broadcasting. The instant application for modification proposes only to increase WWHB-CA's ERP to 15 kW.

## **OMNI-DIRECTIONAL ANTENNA**

The applicant will utilize its existing Dielectric model TLP-12A/VP-R BB elliptically polarized broad-band omni-directional transmitting antenna with its center of radiation located at a height above ground of 292 meters, and a height above average terrain of 293.3 meters. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 2.

## **PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 shows the predicted Protected Service area (51 dBu) contour, which completely encompasses the community of license, Stuart, Florida.

## **ALLOCATION CONSIDERATIONS**

### ***Post-Transition DTV Considerations***

A study was performed, using the FCC's software, tv\_study, v. 2.2.3, to determine if the instant application for modification of construction permit is predicted to cause new

prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application for construction permit is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations. (See Appendix B)

### ***International DTV Considerations***

The WWHB-CA site is located neither within the Canadian nor the Mexican coordination zone, Therefore no international considerations are necessary.

### **BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed WWHB-CA site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

### **RADIO FREQUENCY IMPACT**

The FCC's guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines define a maximum permissible exposure (MPE) level for occupational or "controlled" situations, and for "uncontrolled" environments that apply in all other cases that

might affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (Edition 97-01, August 1997), provides assistance to determine whether FCC-regulated transmitting facilities, operations or devices comply with guidelines for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. OET Bulletin No. 65 contains the technical information necessary to evaluate compliance with the FCC's policies and guidelines.

The Maximum Permitted Exposure (MPE) level for broadcast facilities that operate on a frequency between 30 MHz and 300 MHz is 200 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for an "uncontrolled" environment, and is 1000 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for a "controlled" environment. The MPE level for broadcast facilities that operate on a frequency between 300 MHz and 1500 MHz, primarily UHF TV stations, is determined, in  $\mu\text{W}/\text{cm}^2$  for an "uncontrolled" environment by dividing the operating frequency in MHz by 1.500, and is similarly determined for a "controlled" environment by dividing the operating frequency in MHz by 0.300.

The predicted emissions of WWHB-CA must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WWHB-CA, which will operate on television Channel 33 (584-590 MHz), the MPE is 391.33 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) in an "uncontrolled" environment and 1,956.7  $\mu\text{W}/\text{cm}^2$  in a "controlled" environment. The proposed WWHB-CA facility will operate with a maximum ERP of 15 kW from an elliptically polarized omni-directional transmitting antenna with a

centerline height of 292 meters above ground level (AGL). Considering a predicted vertical plane relative field factor of 0.300 the WWHB-CA facility is predicted to produce a power density at two meters above ground level of  $1.073 \mu\text{W}/\text{cm}^2$ , which is 0.27% of the FCC guideline value for an "uncontrolled" environment, and 0.054% of the FCC's guideline value for "controlled" environments. There is one full-power DTV broadcast facility, four other LPTV DTV facilities, three full-power FM stations and an FM translator that are located at the WWHB-CA site. Therefore, the total estimated percentage of the ANSI value at the proposed site, including the cumulative radiation from all authorizations within the relevant proximity, is 74.47% of the limit applicable to "uncontrolled" environments, and 14.894% of the limit for "controlled" environments. (See Appendix A)

## **OCCUPATIONAL SAFETY**

The licensee of WWHB-CA is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WWHB-CA antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

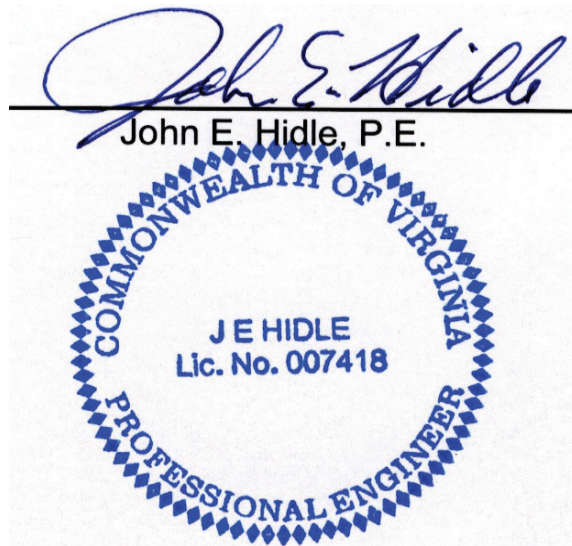
## **SUMMARY**

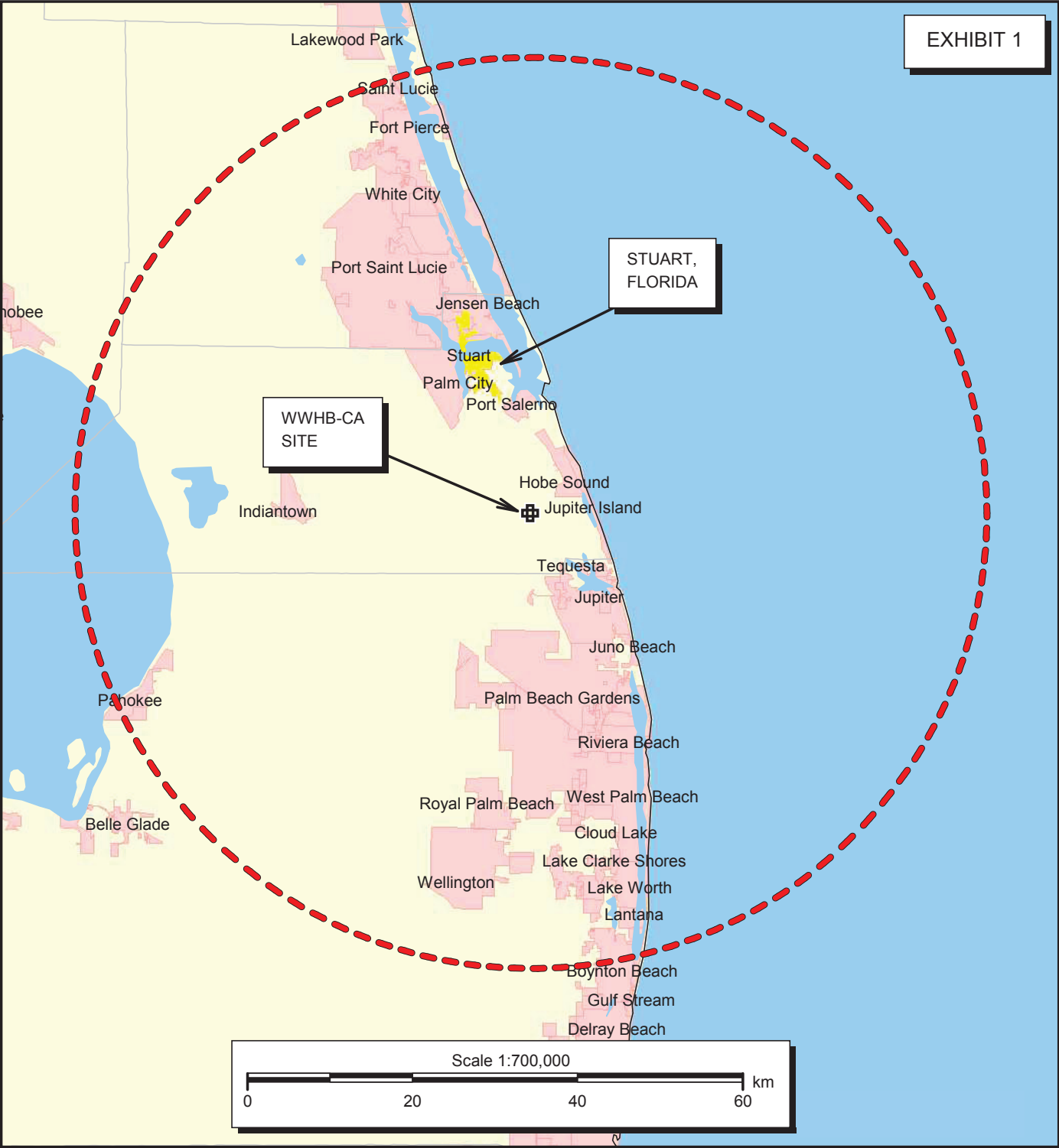
It is submitted that the instant application for minor modification of its post-reassignment channel 33 construction permit to increase WWHB-CA's ERP to 15 kW, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, and

**STATEMENT OF JOHN E. HIDLE, P.E.**  
**WWHB-CA - Stuart, Florida**  
**PAGE 6**

the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: October 10, 2017





**PREDICTED COVERAGE CONTOURS**

**WWHB-CA - STUART, FLORIDA**  
**DTV Channel 33 - 15 kW ERP - 294 M HAAT**  
**OCTOBER, 2017**

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Protected 51 dBu  
F(50,90) Coverage Contour



Proposal Number

**Exhibit 2**

Date

**8-Nov-11**

Call Letters

**WWHB-CA**Channel **48**

Location

**Stuart, Florida**

Customer

**WTVX Licensee, LLC**

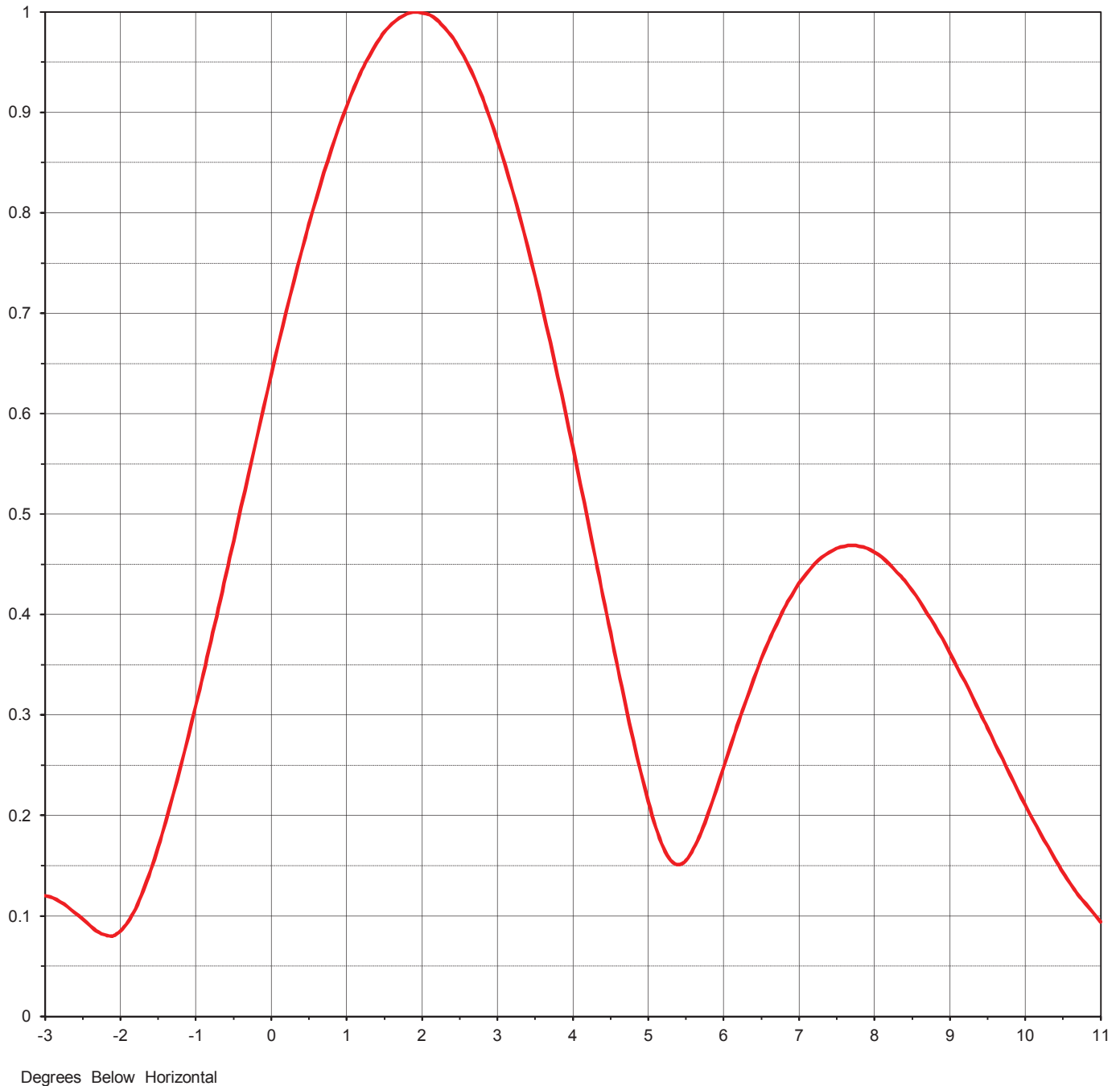
Antenna Type

**TLP-12AVP-R BB**

## ELEVATION PATTERN

RMS Gain at Main Lobe **10.50 ( 10.21 dB )**  
RMS Gain at Horizontal **4.30 ( 6.33 dB )**  
Calculated / Measured **Calculated**

Beam Tilt **1.95 deg**  
Frequency **677.00 MHz**  
Drawing # **12L105200**







Proposal Number

**Exhibit 3**

Date

**8-Nov-11**

Call Letters

**WWHB-CA**Channel **48**

Location

**Stuart, Florida**

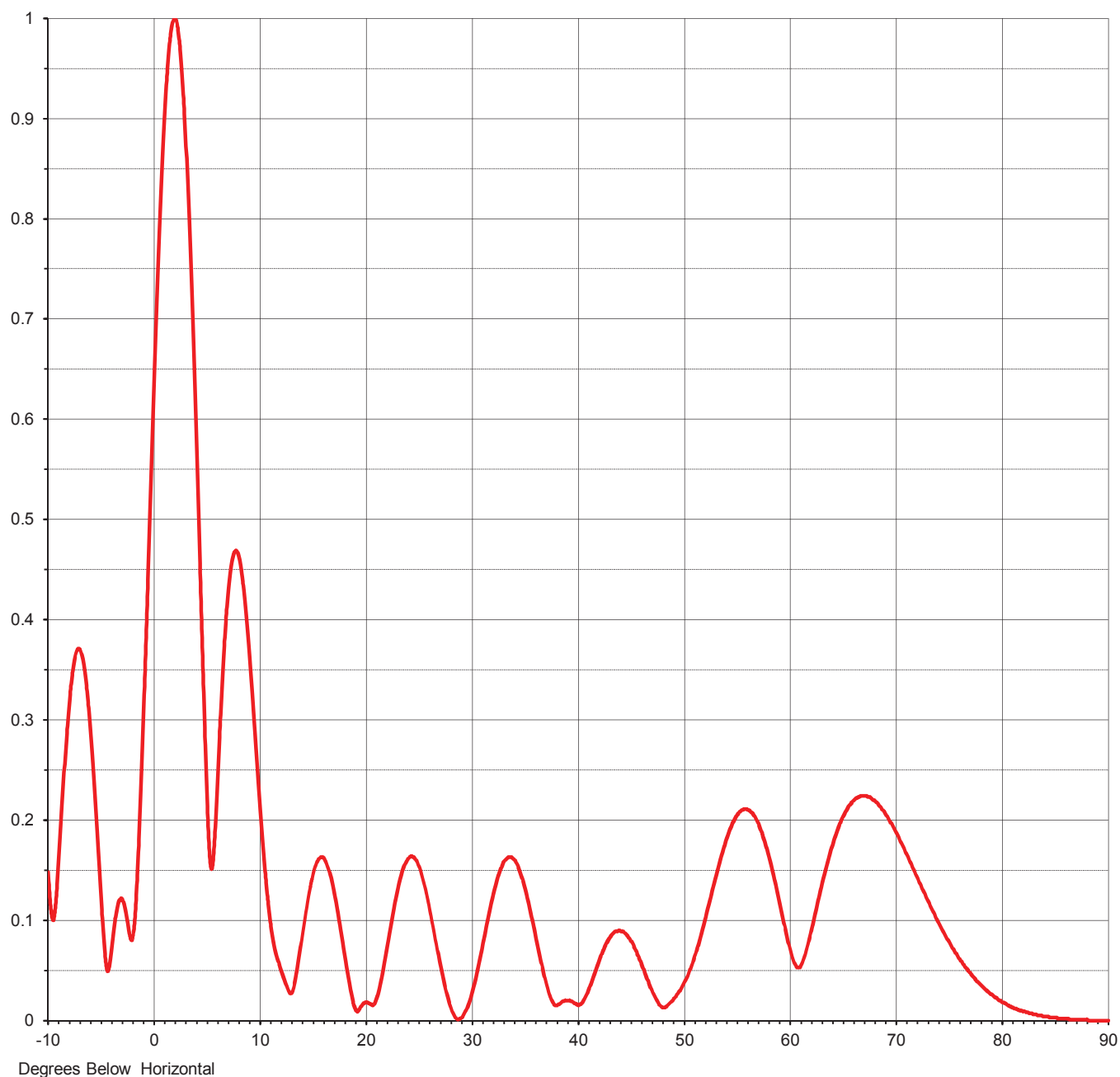
Customer

**WTVX Licensee, LLC**

Antenna Type

**TLP-12A/VP-R BB**

## ELEVATION PATTERN

RMS Gain at Main Lobe **10.50 ( 10.21 dB )**Beam Tilt **1.95 deg**RMS Gain at Horizontal **4.30 ( 6.33 dB )**Frequency **677.00 MHz**Calculated / Measured **Calculated**Drawing # **12L105200-90**

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Proposal Number

**Exhibit 4**

Date

**8-Nov-11**

Call Letters

**WWHB-CA Channel 48**

Location

**Stuart, Florida**

Customer

**WTVX Licensee, LLC**

Antenna Type

**TLP-12A/VP-R BB****TABULATION OF ELEVATION PATTERN**Elevation Pattern Drawing #: **12L105200-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.148	2.4	0.975	10.6	0.143	30.5	0.046	51.0	0.062	71.5	0.153
-9.5	0.100	2.6	0.949	10.8	0.121	31.0	0.071	51.5	0.079	72.0	0.142
-9.0	0.161	2.8	0.915	11.0	0.103	31.5	0.098	52.0	0.099	72.5	0.130
-8.5	0.248	3.0	0.872	11.5	0.070	32.0	0.122	52.5	0.120	73.0	0.119
-8.0	0.319	3.2	0.822	12.0	0.052	32.5	0.143	53.0	0.141	73.5	0.108
-7.5	0.362	3.4	0.766	12.5	0.037	33.0	0.157	53.5	0.161	74.0	0.097
-7.0	0.370	3.6	0.704	13.0	0.027	33.5	0.163	54.0	0.179	74.5	0.087
-6.5	0.343	3.8	0.637	13.5	0.046	34.0	0.161	54.5	0.193	75.0	0.078
-6.0	0.285	4.0	0.566	14.0	0.080	34.5	0.151	55.0	0.204	75.5	0.069
-5.5	0.206	4.2	0.493	14.5	0.114	35.0	0.135	55.5	0.210	76.0	0.061
-5.0	0.119	4.4	0.418	15.0	0.142	35.5	0.113	56.0	0.211	76.5	0.053
-4.5	0.053	4.6	0.345	15.5	0.159	36.0	0.089	56.5	0.207	77.0	0.047
-4.0	0.074	4.8	0.275	16.0	0.163	36.5	0.063	57.0	0.198	77.5	0.040
-3.5	0.112	5.0	0.214	16.5	0.152	37.0	0.040	57.5	0.184	78.0	0.035
-3.0	0.120	5.2	0.168	17.0	0.131	37.5	0.022	58.0	0.167	78.5	0.030
-2.8	0.114	5.4	0.151	17.5	0.101	38.0	0.015	58.5	0.146	79.0	0.026
-2.6	0.103	5.6	0.167	18.0	0.068	38.5	0.018	59.0	0.122	79.5	0.022
-2.4	0.090	5.8	0.203	18.5	0.037	39.0	0.020	59.5	0.097	80.0	0.018
-2.2	0.081	6.0	0.248	19.0	0.013	39.5	0.019	60.0	0.074	80.5	0.015
-2.0	0.085	6.2	0.294	19.5	0.012	40.0	0.016	60.5	0.057	81.0	0.013
-1.8	0.107	6.4	0.336	20.0	0.018	40.5	0.018	61.0	0.053	81.5	0.011
-1.6	0.145	6.6	0.374	20.5	0.016	41.0	0.029	61.5	0.066	82.0	0.009
-1.4	0.194	6.8	0.406	21.0	0.020	41.5	0.043	62.0	0.087	82.5	0.007
-1.2	0.249	7.0	0.431	21.5	0.040	42.0	0.058	62.5	0.110	83.0	0.006
-1.0	0.310	7.2	0.450	22.0	0.069	42.5	0.071	63.0	0.133	83.5	0.005
-0.8	0.374	7.4	0.462	22.5	0.099	43.0	0.082	63.5	0.154	84.0	0.004
-0.6	0.440	7.6	0.468	23.0	0.127	43.5	0.088	64.0	0.173	84.5	0.003
-0.4	0.507	7.8	0.468	23.5	0.149	44.0	0.090	64.5	0.192	85.0	0.003
-0.2	0.573	8.0	0.462	24.0	0.161	44.5	0.087	65.0	0.204	85.5	0.002
0.0	0.639	8.2	0.450	24.5	0.163	45.0	0.080	65.5	0.214	86.0	0.002
0.2	0.702	8.4	0.434	25.0	0.155	45.5	0.070	66.0	0.220	86.5	0.001
0.4	0.761	8.6	0.413	25.5	0.138	46.0	0.058	66.5	0.223	87.0	0.001
0.6	0.815	8.8	0.389	26.0	0.115	46.5	0.044	67.0	0.224	87.5	0.001
0.8	0.864	9.0	0.362	26.5	0.087	47.0	0.031	67.5	0.223	88.0	0.001
1.0	0.906	9.2	0.333	27.0	0.059	47.5	0.020	68.0	0.219	88.5	0.000
1.2	0.942	9.4	0.302	27.5	0.034	48.0	0.013	68.5	0.213	89.0	0.000
1.4	0.969	9.6	0.271	28.0	0.015	48.5	0.015	69.0	0.205	89.5	0.000
1.6	0.988	9.8	0.256	28.5	0.003	49.0	0.020	69.5	0.197	90.0	0.000
1.8	0.998	10.0	0.225	29.0	0.002	49.5	0.027	70.0	0.187		
2.0	0.999	10.2	0.196	29.5	0.010	50.0	0.036	70.5	0.176		
2.2	0.992	10.4	0.169	30.0	0.025	50.5	0.047	71.0	0.165		

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# SUMMARY OF RADIOFREQUENCY RADIATION STUDY

WWHB-CA, Stuart, FL  
Channel 33, 15 kW, 293.5 m HAAT  
October, 2017

CALL	SERVICE	CHANNEL	FREQUENCY	POLAR- IZATION	ANTENNA HEIGHT	ERP (kW)	VERT. RELATIVE FIELD FACTOR	WORST-CASE PREDICTED POWER DENSITY ( $\mu\text{W}/\text{cm}^2$ )	FCC UNCONTROLLED LIMIT ( $\mu\text{W}/\text{cm}^2$ )	PERCENT OF UNCONTROLLED LIMIT
WTCN-CA	DT	17	491	H & V	292	15.000	0.300	1.073	327.33	0.33%
WWHB-CA	DT	33	587	H & V	292	15.000	0.300	1.073	391.33	0.27%
WTCE	DT	18	497	H	295	649.000	0.300	22.731	331.33	6.86%
WDOX-LD(CP)	DT	24	533	H	260	4.550	0.300	0.206	355.33	0.06%
WXOD-LD	DT	33	587	H	260	4.450	0.300	0.201	391.33	0.05%
WMMF-LD	DT	39	623	H	290	15.000	0.300	0.544	415.33	0.13%
WKGR	FM	254	98.7	H & V	295	100.000	<note 1>	43.921	200.00	21.96%
WMBX	FM	272	102.3	H & V	294	100.000	<note 1>	44.219	200.00	22.11%
WIRK	FM	276	103.1	H & V	296	90.000	<note 1>	43.619	200.00	21.81%
WLDI (AUX)	FM	238	95.5	H & V	262	15.000	<note2>	1.286	200.00	0.64%
W295BJ	FM	295	106.9	H & V	164	0.190	1.000	0.484	200.00	0.24%

**TOTAL PERCENTAGE OF FCC GUIDELINE VALUE = 74.47%**

\* For television stations a very conservative vertical relative field factor of 0.3 was assumed pursuant to OET Bulletin 65.

note 1: FM Model Antenna: EPA Type 1; 8-bay, full-wave spaced antenna

note 2: FM Model Antenna: EPA Type 3; ERI Rototiller Type, 4-bay, full-wave spaced antenna



## WWHB-CA - STUART, FLORIDA Longley-Rice Interference Analysis

tvstudy v2.2.3 (Dxtpx3)

Database: localhost, Study: WWHB-CA-33 OMNI 15K 171005, Model: Longley-Rice

Start: 2017.10.05 09:47:43

Study created: 2017.10.05 09:47:17

Study build station data: LMS TV 2017-10-01 (38)

Proposal: WWHB-CA D33 DC APP STUART, FL  
 File number: WWHB-CA-33 OMNI 15K 171005  
 Facility ID: 63557  
 Station data: User record  
 Record ID: 1843  
 Country: U.S.

Build options:  
 Protect LPTV records from Class A

Search options:  
 Non-U.S. records included  
 Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WTXI-LD	D33	LD	LIC	MIAMI, FL	BLDTL20140121ACO	115.5 km
WOFL	D33	DT	CP	ORLANDO, FL	BLANK0000027519	196.8
WRXY-TV	D33	DT	LIC	TICE, FL	BLCDT20060627ABA	162.6
WXOD-LD	D33	LD	LIC	West Palm Beach, FL	BLANK0000008031	0.0
WHDH	D34	DT	CP	STUART, FL	BLANK0000028893	50.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D33  
 Mask: Full Service  
 Latitude: 27 1 32.00 N (NAD83)  
 Longitude: 80 10 41.90 W  
 Height AMSL: 296.9 m  
 HAAT: 0.0 m  
 Peak ERP: 15.0 kW  
 Antenna: Omnidirectional  
 Elev Pattn: Generic  
 Elec Tilt: 1.9

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	292.8 m	55.5 km
45.0	15.0	295.5	55.7
90.0	15.0	295.5	55.7
135.0	15.0	295.0	55.6
180.0	15.0	292.6	55.5
225.0	15.0	291.1	55.4
270.0	15.0	291.2	55.4
315.0	15.0	293.7	55.6

Database HAAT does not agree with computed HAAT  
 Database HAAT: 0 m Computed HAAT: 293 m

\*\*Proposal service area extends beyond baseline plus 1.0%

# **Appendix B - Interference Analysis** **WWHB-CA - Stuart, Florida** **Channel 33 - 15 kW - Page 2**

Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1641.0 km

Distance to Mexican border: 1668.6 km

Conditions at FCC monitoring station: Vero Beach FL  
Bearing: 325.2 degrees Distance: 78.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 308.7 degrees Distance: 2723.4 km

Study cell size: 1.00 km  
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

## ----- Interference to BLDLTL20140121ACO LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTXI-LD	D33	LD	LIC	MIAMI, FL	BLDLTL20140121ACO	
Undesireds:	WWHB-CA	D33	DC	BL	STUART, FL	DTVBL63557	115.5 km
	WWHB-CA	D33	DC	APP	STUART, FL	WWHB-CA-33 OMNI 15K 17	115.5
	WBFS-TV	D32	DT	LIC	MIAMI, FL	BLCDT20130909AAU	3.4
	WGCT-LD	D33	LD	LIC	CRYSTAL RIVER, FL	BLANK0000004224	331.2
	WJAN-CD	D33	DC	CP	MIAMI, FL	BLANK00000027865	56.7
	WXOD-LD	D33	LD	LIC	West Palm Beach, FL	BLANK0000008031	115.5
	WVFW-LD	D34	LD	LIC	MIAMI, FL	BLDLTL20100611AIE	2.1
	WHDT	D34	DT	CP	STUART, FL	BLANK00000028893	65.7

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	5734.6	4,166,392	5734.6	4,166,392	1653.0
			2,257,685	1652.0	2,257,231
				0.06	0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
WWHB-CA D33 DC BL	2.0	3,211	0.0
WWHB-CA D33 DC APP	4.9	5,364	0
WBFS-TV D32 DT LIC	551.1	278,955	31.6
WJAN-CD D33 DC CP	4049.1	1,869,456	3467.4
WXOD-LD D33 LD LIC	3.0	4,721	0.0
WVFW-LD D34 LD LIC	168.6	16,633	1.0
WHDT D34 DT CP	3.9	4,910	0.0

## ----- Interference to BLANK00000027519 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOFL	D33	DT	CP	ORLANDO, FL	BLANK00000027519	
Undesireds:	WWHB-CA	D33	DC	BL	STUART, FL	DTVBL63557	196.8 km
	WWHB-CA	D33	DC	APP	STUART, FL	WWHB-CA-33 OMNI 15K 17	196.8
	WHLV-TV	D32	DT	CP	COCOA, FL	BLANK00000026618	1.9
	WRXY-TV	D33	DT	LIC	TICE, FL	BLCDT20060627ABA	213.8
	WUCF-TV	D34	DT	CP	ORLANDO, FL	BLANK00000027156	0.7

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	37149.6	3,944,641	37141.6	3,943,128	37082.7
			3,933,579	37025.7	3,926,678
				0.15	0.18

Undesired	Total IX	Unique IX, before	Unique IX, after
WWHB-CA D33 DC BL	0.0	0	0.0
WWHB-CA D33 DC APP	57.9	6,901	56.9
WHLV-TV D32 DT CP	20.0	3,342	15.0
WRXY-TV D33 DT LIC	31.9	5,409	31.9
WUCF-TV D34 DT CP	12.0	2,348	7.0

**Appendix B - Interference Analysis**  
**WWHB-CA - Stuart, Florida**  
**Channel 33 - 15 kW - Page 3**

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Interference to BLCDT20060627ABA LIC, scenario 1

Desired:	Call WRXY-TV	Chan D33	Svc DT	Status LIC	City, State TICE, FL	File Number BLCDT20060627ABA	Distance
Undesireds:	WWHB-CA	D33	DC	BL	STUART, FL	DTVBL63557	162.6 km
	WWHB-CA	D33	DC	APP	STUART, FL	WWHB-CA-33 OMNI 15K 17	162.6
	WXCW	D32	DT	CP	NAPLES, FL	BLANK0000025400	3.7
	WJAN-CD	D33	DC	CP	MIAMI, FL	BLANK0000027865	191.6
	WOFL	D33	DT	CP	ORLANDO, FL	BLANK0000027519	213.8
	WFTX-TV	D34	DT	CP	CAPE CORAL, FL	BLANK0000026821	1.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27406.0	1,635,479	27406.0	1,635,479	26849.7	1,634,082	26849.7 1,634,082	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
WWHB-CA	D33	DC	BL	2.0	90	0.0	0
WWHB-CA	D33	DC	APP	91.4	952	0.0	0
WXCW	D32	DT	CP	12.1	203	2.0	0
WJAN-CD	D33	DC	CP	449.9	190	449.9	190
WOFL	D33	DT	CP	103.4	1,207	89.3	756
WFTX-TV	D34	DT	CP	8.0	361	1.0	0

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Interference to BLANK0000008031 LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXOD-LD	D33	LD	LIC	West Palm Beach, FL	BLANK0000008031	
Undesireds:	WWHB-CA	D33	DC	BL	STUART, FL	DTVBL63557	0.0 km
	WWHB-CA	D33	DC	APP	STUART, FL	WWHB-CA-33 OMNI 15K 17	0.0
	WGCT-LD	D33	LD	LIC	CRYSTAL RIVER, FL	BLANK0000004224	260.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5363.6	1,046,373	5363.6	1,046,373	8.0	83	8.0 83	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
WWHB-CA D33 DC BL		5355.5	1,046,290		5355.5 1,046,290		
WWHB-CA D33 DC APP		5355.5	1,046,290			5355.5 1,046,290	

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Interference to BLANK0000028893 CP, scenario 1

Desired:	Call WHDT	Chan D34	Svc DT	Status CP	City, State STUART, FL	File Number BLANK0000028893	Distance			
Undesireds:	WWHB-CA	D33	DC	BL	STUART, FL	DTVBL63557	50.5 km			
	WWHB-CA	D33	DC	APP	STUART, FL	WWHB-CA-33 OMNI 15K 17	50.5			
	WJAN-CD	D33	DC	CP	MIAMI, FL	BLANK0000027865	117.2			
	WFTX-TV	D34	DT	CP	CAPE CORAL, FL	BLANK0000026821	156.8			
	WUCF-TV	D34	DT	CP	ORLANDO, FL	BLANK0000027156	240.4			
Service area		Terrain-limited			IX-free, before		IX-free, after	Percent New IX		
27121.7	5,637,176	27121.7	5,637,176		26601.0	5,587,783	26600.0	5,587,783	0.00	0.00
Undesired				Total IX	Unique IX, before		Unique IX, after			
WWHB-CA	D33	DC	BL	0.0	0	0.0	0			
WWHB-CA	D33	DC	APP	4.0	0		1.0	0		
WJAN-CD	D33	DC	CP	29.7	47,319	29.7	47,319	29.7	47,319	
WFTX-TV	D34	DT	CP	488.0	2,074	488.0	2,074	488.0	2,074	
WUCF-TV	D34	DT	CP	3.0	0	3.0	0	0.0	0	

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Interference to proposal, scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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**Appendix B - Interference Analysis**  
**WWHB-CA - Stuart, Florida**  
**Channel 33 - 15 kW - Page 4**

Desired:	WWHB-CA	D33	DC	APP	STUART, FL	WWHB-CA-33 OMNI 15K 17	
Undesireds:	WHDT	D34	DT	CP	STUART, FL	BLANK0000028893	50.5 km
	Service area		Terrain-limited		IX-free	Percent IX	
	9689.5 1,306,776		9689.5 1,306,776		9683.4 1,306,776	0.06 0.00	
Undesired			Total IX		Unique IX	Prcnt Unique IX	
WHDT D34 DT CP			6.1 0		6.1 0	0.06 0.00	