

ENGINEERING EXHIBIT

Application for Digital Television Station Construction Permit

prepared for

Esteem Broadcasting of North Carolina LLC

WFXI(DT) Morehead City, NC

Facility ID 37982

Ch. 8 22.4 kW 247 m

Esteem Broadcasting of North Carolina LLC (“*Esteem*”) is the licensee of television station WFXI, Morehead City, NC. A Construction Permit (“CP”, BPCDT-20080529AJD) authorizes construction of the WFXI(DT) post-transition digital facility on Channel 8, as established in Appendix B of the Seventh Report and Order in MB Docket 87-268. That CP authorizes operation with an effective radiated power (“ERP”) of 13 kW at 247 meters antenna height above average terrain (“HAAT”) with a directional antenna. A “maximization” CP was subsequently granted (BMPCDT-20080619AEE) to authorize operation with the same antenna with an increased ERP of 42 kW.

WFXI is presently operating pursuant to the 13 kW CP and a license application is pending to cover the construction (BLCDT-20090617AAJ). The current transmitter power output (“TPO”) is 1.04 kW to achieve 13 kW ERP. The maximization CP ERP of 42 kW will require a TPO of 3.37 kW, which will require an additional transmitter power amplifier to be installed. *Esteem* intends to obtain the additional transmitter power amplifier in 2010. Meanwhile, the current transmitter has capability of 1.8 kW TPO which would allow an increase in ERP to 22.4 kW.

Esteem herein seeks a separate CP to increase WFXI’s ERP to 22.4 kW. The power increase can be implemented immediately upon grant and a license to cover application filed. Subsequently, *Esteem* will implement the 42 kW facility ERP as authorized by BMPCDT-20080619AEE. ***Esteem* intends on constructing the maximization facility authorized in BMPCDT-20080619AEE and specifically requests that the instant application not cause BMPCDT-20080619AEE to be modified or superseded.**

The directional transmitting antenna is a horizontally polarized ERI model ETH-P2L8-8. The antenna's azimuthal pattern is depicted in **Figure 1**. **Figures 2** and **2A** provide the theoretical vertical plane (elevation) pattern. The antenna is top-mounted on an existing antenna supporting structure, having FCC Antenna Structure Registration ("ASR") number 1253623. No change to the overall structure height and no tower work are required to carry out this proposal.

A map is supplied as **Figure 3**, which depicts the standard predicted coverage contours. This map includes the location of Morehead City, WFXI's principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 43 dBμ contour.

The proposed WFXI facility's predicted service population provides a 117.8 percent match of the Appendix B facility, as detailed in the table below.

Post-Transition Population Summary

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	299,798	353,001
Not affected by terrain losses	299,798	353,001
Lost to all interference	0	0
Net DTV Service	299,798	353,001
Match of Appendix B	---	117.75%

A detailed interference study per OET Bulletin 69¹ shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The nearest FCC monitoring station is 476 km distant at Laurel, MD. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest

¹FCC 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 standard cell size of 2 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.

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 AM stations within 3.2 kilometers of the site, based on information contained within the Commission’s database. The site location is beyond the border areas requiring international coordination.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

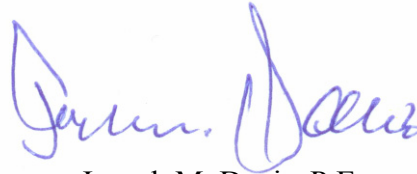
The proposal will involve use of an existing transmitting antenna. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No tower construction or change in structure height is proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission’s rules.

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 20 percent antenna relative field in downward elevations (pattern data shows less than 20 percent relative field at angles 20 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $0.5 \mu\text{W}/\text{cm}^2$, which is 0.25 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.

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.
July 1, 2009

Chesapeake RF Consultants, LLC
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Manassas, VA 20112
703-650-9600

List of Attachments

Figure 1	Antenna Horizontal Plane Pattern
Figure 2, 2A	Antenna Vertical Plane (Elevation) Pattern
Figure 3	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

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Figure 1
Antenna Horizontal
Plane Pattern

AZIMUTH PATTERN

TYPE:

	<u>Numeric</u>	<u>dB</u>
Directivity:	<u>2.26</u>	<u>3.54</u>
Peak(s) at:		

Frequency:

8

Location:

Morehead City, NC

Polarization:

Horizontal

Note: Pattern shape and directivity may vary with channel and mounting configuration.

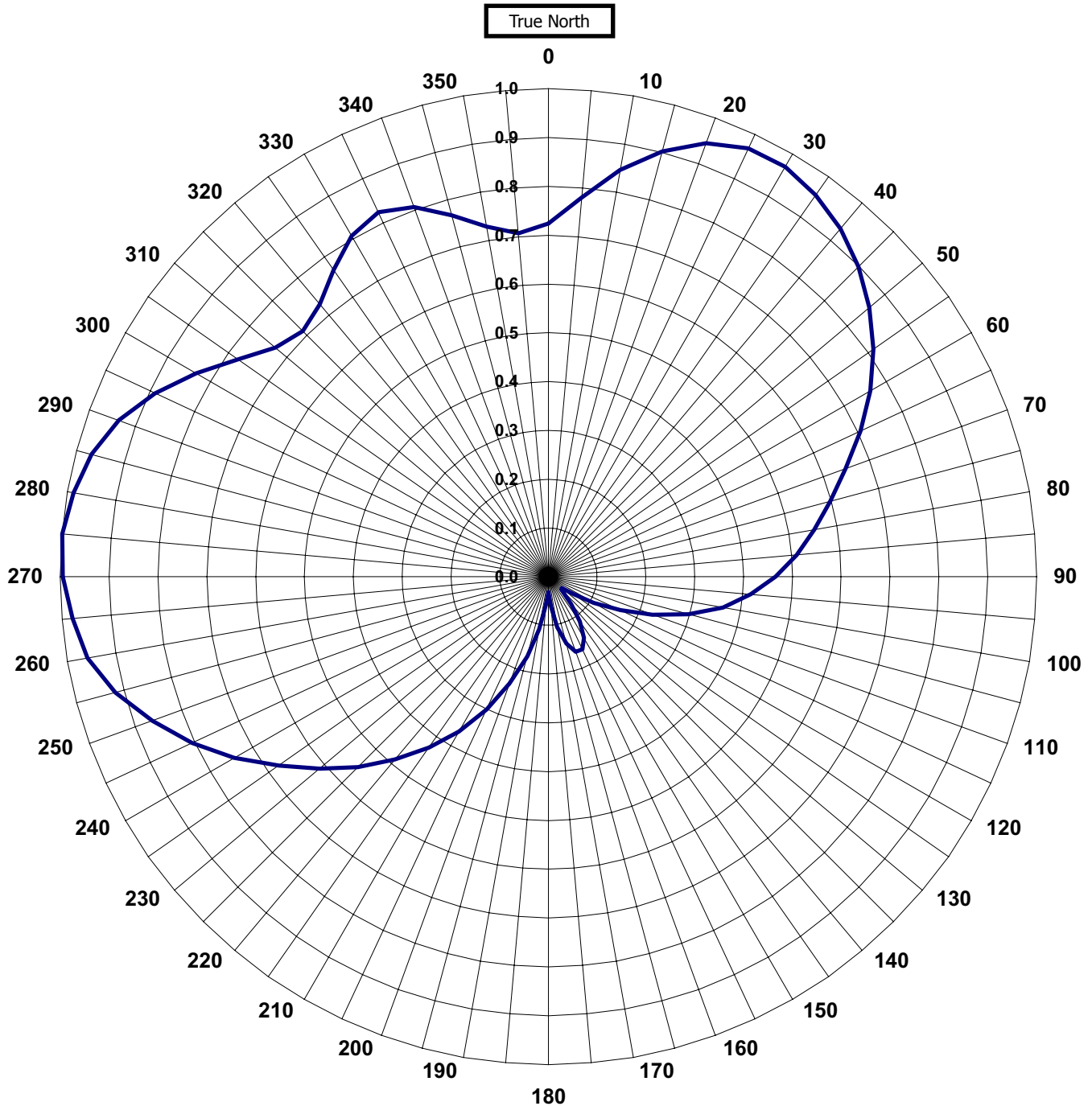


Figure 2
Antenna Vertical
(Elevation) Plane Pattern

ELEVATION PATTERN

TYPE: ETH-P2L8-8

Directivity:	<u>Numeric</u>	<u>dBd</u>
Main Lobe:	<u>7.22</u>	<u>8.59</u>
Horizontal:	<u>6.95</u>	<u>8.42</u>

Frequency: 8

Location:	<u>Morehead City, NC</u>
Beam Tilt:	<u>1.00</u>
Polarization:	<u>Horizontal</u>

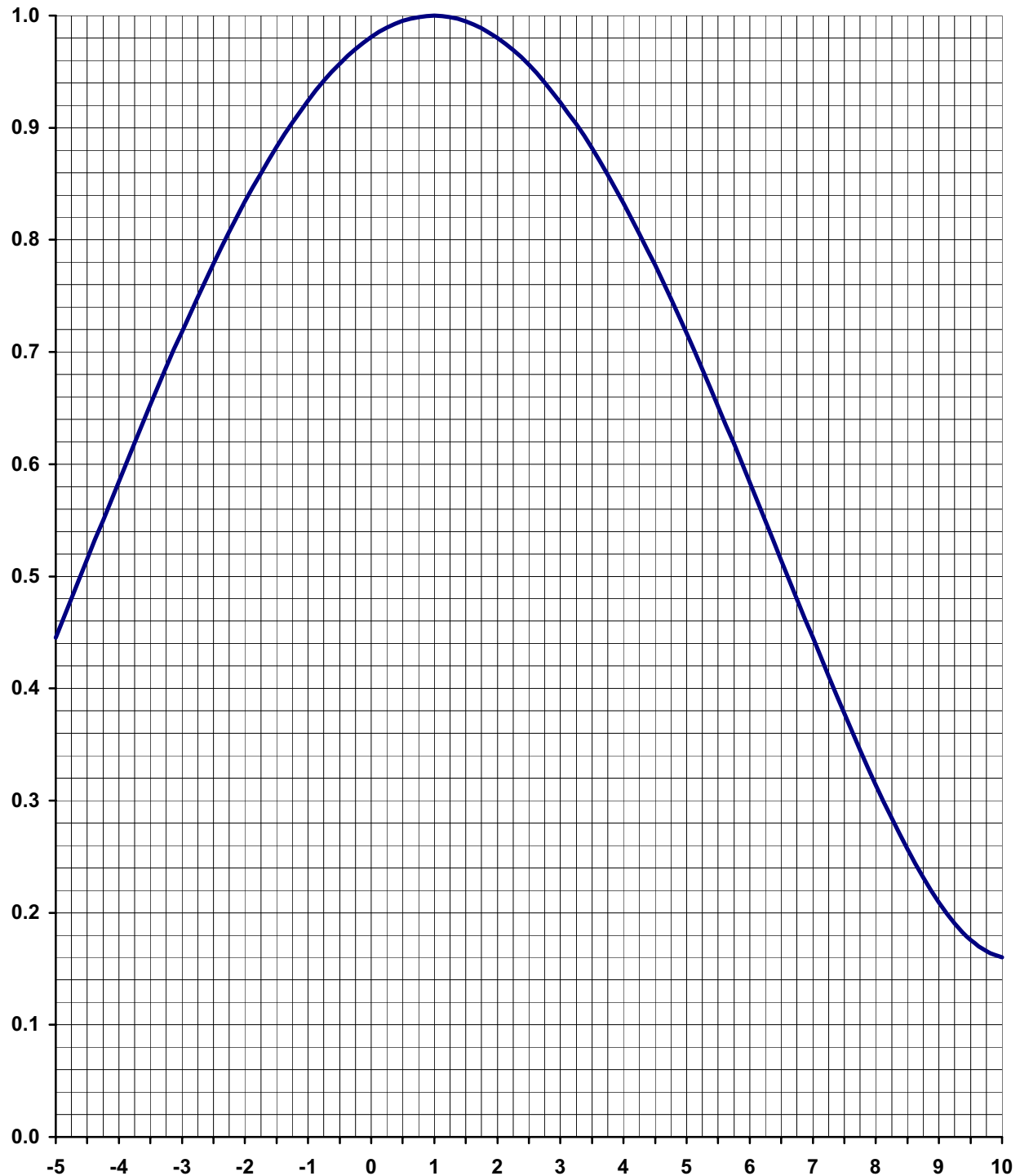


Figure 2A
Antenna Vertical
(Elevation) Plane Pattern

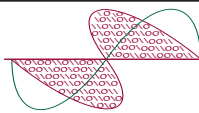
TABULATED DATA FOR ELEVATION PATTERN

ETH-P2L8-8

-5 to 10 degrees in 0.25 increments

10 to 90 degrees in 0.50 increments

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.000	0.445	-7.02	6.75	0.480	-6.38	27.00	0.072	-22.84	50.50	0.062	-24.19	74.00	0.006	-44.01
-4.750	0.480	-6.37	7.00	0.445	-7.03	27.50	0.060	-24.47	51.00	0.056	-25.05	74.50	0.006	-44.58
-4.500	0.515	-5.76	7.25	0.411	-7.72	28.00	0.050	-25.99	51.50	0.050	-26.00	75.00	0.006	-45.19
-4.250	0.550	-5.19	7.50	0.378	-8.46	28.50	0.046	-26.78	52.00	0.044	-27.09	75.50	0.005	-45.51
-4.000	0.585	-4.66	7.75	0.345	-9.24	29.00	0.048	-26.32	52.50	0.039	-28.27	76.00	0.005	-45.85
-3.750	0.619	-4.16	8.00	0.314	-10.06	29.50	0.056	-24.99	53.00	0.033	-29.53	76.50	0.005	-46.20
-3.500	0.653	-3.70	8.25	0.284	-10.92	30.00	0.067	-23.45	53.50	0.029	-30.84	77.00	0.005	-46.38
-3.250	0.686	-3.27	8.50	0.257	-11.81	30.50	0.079	-22.07	54.00	0.025	-32.01	77.50	0.005	-46.74
-3.000	0.718	-2.88	8.75	0.231	-12.71	31.00	0.090	-20.91	54.50	0.023	-32.92	78.00	0.005	-46.94
-2.750	0.749	-2.51	9.00	0.209	-13.59	31.50	0.100	-19.97	55.00	0.022	-33.27	78.50	0.004	-47.33
-2.500	0.779	-2.17	9.25	0.190	-14.41	32.00	0.109	-19.26	55.50	0.022	-33.11	79.00	0.004	-47.54
-2.250	0.807	-1.86	9.50	0.176	-15.10	32.50	0.116	-18.74	56.00	0.024	-32.58	79.50	0.004	-47.96
-2.000	0.834	-1.57	9.75	0.166	-15.62	33.00	0.120	-18.39	56.50	0.026	-31.84	80.00	0.004	-48.40
-1.750	0.860	-1.32	10.00	0.160	-15.91	33.50	0.123	-18.20	57.00	0.028	-31.06	80.50	0.004	-48.87
-1.500	0.883	-1.08	10.50	0.162	-15.80	34.00	0.124	-18.17	57.50	0.030	-30.34	81.00	0.003	-49.63
-1.250	0.905	-0.87	11.00	0.176	-15.11	34.50	0.122	-18.28	58.00	0.033	-29.74	81.50	0.003	-50.17
-1.000	0.924	-0.68	11.50	0.194	-14.26	35.00	0.118	-18.54	58.50	0.035	-29.22	82.00	0.003	-51.06
-0.750	0.942	-0.52	12.00	0.211	-13.50	35.50	0.113	-18.95	59.00	0.036	-28.80	82.50	0.003	-51.70
-0.500	0.957	-0.38	12.50	0.226	-12.93	36.00	0.106	-19.53	59.50	0.038	-28.50	83.00	0.002	-52.77
-0.250	0.970	-0.26	13.00	0.236	-12.55	36.50	0.097	-20.29	60.00	0.039	-28.27	83.50	0.002	-53.98
0.000	0.981	-0.17	13.50	0.241	-12.38	37.00	0.087	-21.26	60.50	0.039	-28.13	84.00	0.002	-54.89
0.250	0.989	-0.09	14.00	0.240	-12.40	37.50	0.075	-22.48	61.00	0.039	-28.09	84.50	0.002	-56.48
0.500	0.995	-0.04	14.50	0.234	-12.62	38.00	0.063	-24.00	61.50	0.039	-28.09	85.00	0.001	-57.72
0.750	0.999	-0.01	15.00	0.223	-13.03	38.50	0.050	-25.99	62.00	0.039	-28.16	85.50	0.001	-60.00
1.000	1.000	0.00	15.50	0.208	-13.64	39.00	0.037	-28.64	62.50	0.038	-28.31	86.00	0.001	-61.94
1.250	0.999	-0.01	16.00	0.189	-14.47	39.50	0.024	-32.54	63.00	0.038	-28.52	86.50	0.001	-64.44
1.500	0.995	-0.04	16.50	0.168	-15.51	40.00	0.010	-39.74	63.50	0.036	-28.78	87.00	0.001	-66.02
1.750	0.989	-0.10	17.00	0.144	-16.82	40.50	0.003	-51.06	64.00	0.035	-29.09	87.50	0.000	-70.46
2.000	0.980	-0.17	17.50	0.120	-18.41	41.00	0.015	-36.31	64.50	0.034	-29.45	88.00	0.000	-73.98
2.250	0.969	-0.27	18.00	0.097	-20.28	41.50	0.027	-31.28	65.00	0.032	-29.87	88.50	0.000	-80.00
2.500	0.956	-0.39	18.50	0.077	-22.32	42.00	0.038	-28.31	65.50	0.030	-30.34	89.00	0.000	---
2.750	0.941	-0.53	19.00	0.063	-24.01	42.50	0.049	-26.27	66.00	0.029	-30.87	89.50	0.000	---
3.000	0.923	-0.70	19.50	0.060	-24.47	43.00	0.058	-24.76	66.50	0.027	-31.44	90.00	0.000	---
3.250	0.903	-0.88	20.00	0.067	-23.52	43.50	0.066	-23.64	67.00	0.025	-32.08			
3.500	0.882	-1.09	20.50	0.079	-22.03	44.00	0.073	-22.78	67.50	0.023	-32.73			
3.750	0.858	-1.33	21.00	0.093	-20.61	44.50	0.078	-22.14	68.00	0.021	-33.47			
4.000	0.833	-1.59	21.50	0.106	-19.48	45.00	0.083	-21.66	68.50	0.019	-34.24			
4.250	0.806	-1.88	22.00	0.117	-18.64	45.50	0.086	-21.34	69.00	0.018	-35.04			
4.500	0.777	-2.19	22.50	0.125	-18.05	46.00	0.088	-21.15	69.50	0.016	-35.92			
4.750	0.748	-2.53	23.00	0.130	-17.71	46.50	0.088	-21.08	70.00	0.015	-36.77			
5.000	0.717	-2.89	23.50	0.132	-17.60	47.00	0.088	-21.12	70.50	0.013	-37.72			
5.250	0.685	-3.29	24.00	0.130	-17.69	47.50	0.086	-21.27	71.00	0.012	-38.64			
5.500	0.652	-3.72	24.50	0.126	-17.99	48.00	0.084	-21.50	71.50	0.010	-39.66			
5.750	0.618	-4.18	25.00	0.119	-18.50	48.50	0.081	-21.84	72.00	0.009	-40.63			
6.000	0.584	-4.67	25.50	0.109	-19.22	49.00	0.077	-22.28	72.50	0.008	-41.51			
6.250	0.549	-5.21	26.00	0.098	-20.18	49.50	0.072	-22.82	73.00	0.008	-42.50			
6.500	0.514	-5.77	26.50	0.085	-21.39	50.00	0.067	-23.45	73.50	0.007	-43.22			

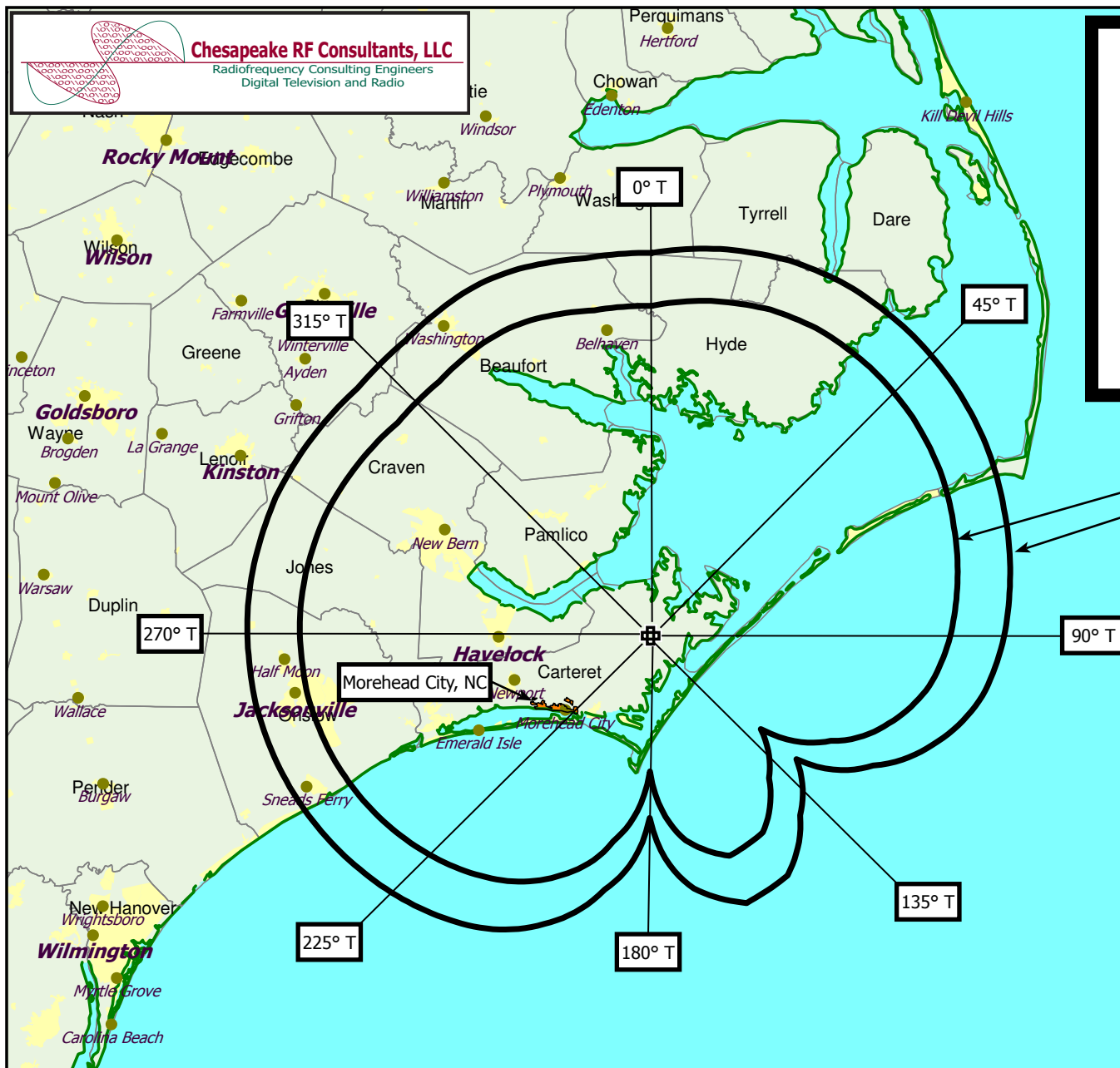


Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 3
Proposed Coverage Contours
WFXI(DT) Morehead City, NC
Facility ID 37982
Ch. 8 22.4 kW 247 m

prepared for
Esteem Broadcasting
of North Carolina LLC

July, 2009



Proposed WFXI-DT
DTV City Grade (43 dBμ)
DTV Service (36 dBμ)

Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	353,363	22,376.1
OET Bulletin 69 method		
Within noise limited contour	353,001	22,347.2
Not affected by terrain losses	353,001	22,347.2
Lost to all interference	0	0.0
Net DTV Service	353,001	22,347.2

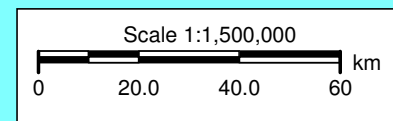


Table 1 WFXI(DT) OET Bulletin 69 Interference Study

(worst-case scenarios shown page 1 of 8)

TW Census data selected 2000
Post Transition Data Base Selected /space/software/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-30-2009 Time: 16:50:25

Record Selected for Analysis

WFXI-DT USERRECORD-01 MOREHEAD CITY NC US
Channel 08 ERP 22.4 kW HAAT 248. m RCMSL 00249 m
Latitude 034-53-01 Longitude 0076-30-22
Status APP Zone 2 Border
Dir Antenna Make CDB Model 00000000087418 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	11.742	248.5	91.3
45.0	17.903	248.7	94.6
90.0	4.843	247.1	84.3
135.0	0.067	248.2	51.6
180.0	0.022	248.0	43.5
225.0	6.776	247.2	87.0
270.0	22.132	247.2	96.2
315.0	11.921	248.4	91.4

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Table 1 WFXI(DT) OET Bulletin 69 Interference Study

(worst-case scenarios shown page 2 of 8)

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
08	WFXI-DT	MOREHEAD CITY NC	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WHRE	VIRGINIA BEACH VA	214.0	CP MOD	BMPCDT	-20080821ADP
07	WHRE	VIRGINIA BEACH VA	214.0	PLN	DTVPLN	-DTVP0105
08	WGHP	HIGH POINT NC	319.5	CP MOD	BMPCDT	-20080620ANG
08	WGHP	HIGH POINT NC	319.5	PLN	DTVPLN	-DTVP0144
08	WOLO-TV	COLUMBIA SC	399.2	LIC	BLCDT	-20021106AAU
08	WOLO-TV	COLUMBIA SC	399.2	PLN	DTVPLN	-DTVP0162
08	WGSC-CA	MYRTLE BEACH SC	243.6	LIC	BLTVL	-19920107JC
09	WSKY-TV	MANTEO NC	182.9	CP MOD	BMPCDT	-20080616AAG
09	WSKY-TV	MANTEO NC	187.2	PLN	DTVPLN	-DTVP0206

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WHRE	VIRGINIA BEACH VA	BMPCDT	-20080821ADP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	243.4	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	243.4	PLN	DTVPLN	-DTVP0053
08	WFXI	MOREHEAD CITY NC	214.0	PLN	DTVPLN	-DTVP0145
08	WFXI-DT	MOREHEAD CITY NC	214.0	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WHRE	VIRGINIA BEACH VA	DTVPLN	-DTVP0105

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	243.4	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	243.4	PLN	DTVPLN	-DTVP0053
08	WFXI	MOREHEAD CITY NC	214.0	PLN	DTVPLN	-DTVP0145
08	WFXI-DT	MOREHEAD CITY NC	214.0	APP	USERRECORD-01	

Table 1 WFXI(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 8)

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WGHP	HIGH POINT NC	BMPCDT	-20080620ANG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WFXI	MOREHEAD CITY NC	319.5	PLN	DTVPLN	-DTVPO145
08	WOLO-TV	COLUMBIA SC	206.5	LIC	BLCDT	-20021106AAU
08	WOLO-TV	COLUMBIA SC	206.5	PLN	DTVPLN	-DTVPO162
08	WVNS-TV	LEWISBURG WV	231.1	CP MOD	BMPCDT	-20040608ABO
08	WVNS-TV	LEWISBURG WV	231.1	PLN	DTVPLN	-DTVPO173
09	WHMC	CONWAY SC	217.6	LIC	BLEDT	-20050830ACK
09	WHMC	CONWAY SC	217.6	PLN	DTVPLN	-DTVPO218
09	WHMC	CONWAY SC	217.6	CP	BPEDT	-20080620AKP
08	WFXI-DT	MOREHEAD CITY NC	319.5	APP	USERRECORD-01	

Total scenarios = 4

Result key: 1

Scenario 1 Affected station 3
Before Analysis

Results for: 8A NC HIGH POINT BMPCDT 20080620ANG CP

HAAT	398.0 m, ATV ERP	18.8 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			2943208	32772.0
not affected by terrain losses			2868562	31787.3
lost to NTSC IX			0	0.0
lost to additional IX by ATV			110112	1294.2
lost to ATV IX only			110112	1294.2
lost to all IX			110112	1294.2

Potential Interfering Stations Included in above Scenario 1

8A SC COLUMBIA	BLCDT	20021106AAU	LIC
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
8A NC MOREHEAD CITY	DTVPLN	DTVPO145	PLN

After Analysis

Results for: 8A NC HIGH POINT BMPCDT 20080620ANG CP

HAAT	398.0 m, ATV ERP	18.8 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			2943208	32772.0
not affected by terrain losses			2868562	31787.3
lost to NTSC IX			0	0.0
lost to additional IX by ATV			113673	1322.3
lost to ATV IX only			113673	1322.3
lost to all IX			113673	1322.3

Potential Interfering Stations Included in above Scenario 1

Table 1 WFXI(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 8)

8A SC COLUMBIA	BLCDT	20021106AAU	LIC
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
8A NC MOREHEAD CITY	USERRECORD01		APP

Percent new IX = 0.1291%

Worst case new IX 0.1291% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WGHP	HIGH POINT NC	DTVPLN	-DTVPO144

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WFXI	MOREHEAD CITY NC	319.5	PLN	DTVPLN	-DTVPO145
08	WOLO-TV	COLUMBIA SC	206.5	LIC	BLCDT	-20021106AAU
08	WOLO-TV	COLUMBIA SC	206.5	PLN	DTVPLN	-DTVPO162
08	WVNS-TV	LEWISBURG WV	231.1	CP MOD	BMPCDT	-20040608ABO
08	WVNS-TV	LEWISBURG WV	231.1	PLN	DTVPLN	-DTVPO173
09	WHMC	CONWAY SC	217.6	LIC	BLEDT	-20050830ACK
09	WHMC	CONWAY SC	217.6	PLN	DTVPLN	-DTVPO218
09	WHMC	CONWAY SC	217.6	CP	BPEDT	-20080620AKP
08	WFXI-DT	MOREHEAD CITY NC	319.5	APP	USERRECORD-01	

Total scenarios = 4

Result key: 5

Scenario 1 Affected station 4
Before Analysis

Results for: 8A NC HIGH POINT DTVPLN DTVPO144 PLN

HAAT	398.0 m, ATV ERP	15.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			2945803	32231.7
not affected by terrain losses			2876414	31266.9
lost to NTSC IX			0	0.0
lost to additional IX by ATV			107052	1270.3
lost to ATV IX only			107052	1270.3
lost to all IX			107052	1270.3

Potential Interfering Stations Included in above Scenario 1

8A SC COLUMBIA	BLCDT	20021106AAU	LIC
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
8A NC MOREHEAD CITY	DTVPLN	DTVPO145	PLN

After Analysis

Results for: 8A NC HIGH POINT DTVPLN DTVPO144 PLN

HAAT	398.0 m, ATV ERP	15.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			2945803	32231.7
not affected by terrain losses			2876414	31266.9

Table 1 WFXI(DT) OET Bulletin 69 Interference Study

(worst-case scenarios shown page 5 of 8)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	117766	1318.5
lost to ATV IX only	117766	1318.5
lost to all IX	117766	1318.5

Potential Interfering Stations Included in above Scenario 1

8A SC COLUMBIA	BLCDT	20021106AAU	LIC
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
8A NC MOREHEAD CITY	USERRECORD01		APP

Percent new IX = 0.3869%

Worst case new IX 0.3869% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WOLO-TV	COLUMBIA SC	BLCDT	-20021106AAU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WITV	CHARLESTON SC	165.2	CP MOD	BMPEDT	-20080612ACQ
07	WITV	CHARLESTON SC	165.2	PLN	DTVPLN	-DTVP0095
07	WSPA-TV	SPARTANBURG SC	182.2	CP MOD	BMPCDT	-20080619ABN
07	WSPA-TV	SPARTANBURG SC	182.2	PLN	DTVPLN	-DTVP0096
08	WGTV	ATHENS GA	313.5	CP MOD	BMPEDT	-20080619AKR
08	WGTV	ATHENS GA	313.5	PLN	DTVPLN	-DTVP0120
08	WACS-TV	DAWSON GA	428.2	CP MOD	BMPEDT	-20080227ABT
08	WACS-TV	DAWSON GA	428.2	PLN	DTVPLN	-DTVP0121
08	WXGA-TV	WAYCROSS GA	363.5	CP MOD	BMPEDT	-20080619AKT
08	WXGA-TV	WAYCROSS GA	363.5	PLN	DTVPLN	-DTVP0122
08	WGHP	HIGH POINT NC	206.5	CP MOD	BMPCDT	-20080620ANG
08	WGHP	HIGH POINT NC	206.5	PLN	DTVPLN	-DTVP0144
08	WFXI	MOREHEAD CITY NC	399.3	PLN	DTVPLN	-DTVP0145
08	WVNS-TV	LEWISBURG WV	406.5	CP MOD	BMPCDT	-20040608ABO
08	WVNS-TV	LEWISBURG WV	406.5	PLN	DTVPLN	-DTVP0173
09	WHMC	CONWAY SC	153.6	LIC	BLEDT	-20050830ACK
09	WHMC	CONWAY SC	153.6	PLN	DTVPLN	-DTVP0218
09	WHMC	CONWAY SC	153.6	CP	BPEDT	-20080620AKP
09	WNTV	GREENVILLE SC	176.5	LIC	BLEDT	-20041123AKQ
09	WNTV	GREENVILLE SC	176.5	PLN	DTVPLN	-DTVP0219
09	WNTV	GREENVILLE SC	176.5	CP	BPEDT	-20080620ACK
08	WFXI-DT	MOREHEAD CITY NC	399.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WOLO-TV	COLUMBIA SC	DTVPLN	-DTVP0162

Table 1 WFXI(DT) OET Bulletin 69 Interference Study

(worst-case scenarios shown page 6 of 8)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WITV	CHARLESTON SC	165.2	CP MOD	BMPEDT	-20080612ACQ
07	WITV	CHARLESTON SC	165.2	PLN	DTVPLN	-DTVP0095
07	WSPA-TV	SPARTANBURG SC	182.2	CP MOD	BMPCDT	-20080619ABN
07	WSPA-TV	SPARTANBURG SC	182.2	PLN	DTVPLN	-DTVP0096
08	WGTV	ATHENS GA	313.5	CP MOD	BMPEDT	-20080619AKR
08	WGTV	ATHENS GA	313.5	PLN	DTVPLN	-DTVP0120
08	WACS-TV	DAWSON GA	428.2	CP MOD	BMPEDT	-20080227ABT
08	WACS-TV	DAWSON GA	428.2	PLN	DTVPLN	-DTVP0121
08	WXGA-TV	WAYCROSS GA	363.5	CP MOD	BMPEDT	-20080619AKT
08	WXGA-TV	WAYCROSS GA	363.5	PLN	DTVPLN	-DTVP0122
08	WGHP	HIGH POINT NC	206.5	CP MOD	BMPCDT	-20080620ANG
08	WGHP	HIGH POINT NC	206.5	PLN	DTVPLN	-DTVP0144
08	WFXI	MOREHEAD CITY NC	399.3	PLN	DTVPLN	-DTVP0145
08	WVNS-TV	LEWISBURG WV	406.5	CP MOD	BMPCDT	-20040608ABO
08	WVNS-TV	LEWISBURG WV	406.5	PLN	DTVPLN	-DTVP0173
09	WHMC	CONWAY SC	153.6	LIC	BLEDT	-20050830ACK
09	WHMC	CONWAY SC	153.6	PLN	DTVPLN	-DTVP0218
09	WHMC	CONWAY SC	153.6	CP	BPEDT	-20080620AKP
09	WNTV	GREENVILLE SC	176.5	LIC	BLEDT	-20041123AKQ
09	WNTV	GREENVILLE SC	176.5	PLN	DTVPLN	-DTVP0219
09	WNTV	GREENVILLE SC	176.5	CP	BPEDT	-20080620ACK
08	WFXI-DT	MOREHEAD CITY NC	399.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WGSC-CA	MYRTLE BEACH SC	BLTVL	-19920107JC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WITV	CHARLESTON SC	125.9	CP MOD	BMPEDT	-20080612ACQ
07	WITV	CHARLESTON SC	125.9	PLN	DTVPLN	-DTVP0095
08	WGHP	HIGH POINT NC	247.5	CP MOD	BMPCDT	-20080620ANG
08	WGHP	HIGH POINT NC	247.5	PLN	DTVPLN	-DTVP0144
08	WFXI	MOREHEAD CITY NC	243.6	PLN	DTVPLN	-DTVP0145
08	WOLO-TV	COLUMBIA SC	186.6	LIC	BLCDT	-20021106AAU
08	WOLO-TV	COLUMBIA SC	186.6	PLN	DTVPLN	-DTVP0162
09	WHMC	CONWAY SC	36.3	LIC	BLEDT	-20050830ACK
09	WHMC	CONWAY SC	36.3	PLN	DTVPLN	-DTVP0218
09	WHMC	CONWAY SC	36.3	CP	BPEDT	-20080620AKP
08	WFXI-DT	MOREHEAD CITY NC	243.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WSKY-TV	MANTEO NC	BMPCDT	-20080616AAG

Table 1 WFXI(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 8)

Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WFXI	MOREHEAD CITY NC	182.9	PLN	DTVPLN	-DTVP0145
09	WUSA	WASHINGTON DC	278.5	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	278.5	PLN	DTVPLN	-DTVP0188
09	WHMC	CONWAY SC	382.7	LIC	BLEDT	-20050830ACK
09	WHMC	CONWAY SC	382.7	PLN	DTVPLN	-DTVP0218
09	WHMC	CONWAY SC	382.7	CP	BPEDT	-20080620AKP
10	WNCT-TV	GREENVILLE NC	161.6	CP MOD	BMPCDT	-20040730ARH
10	WNCT-TV	GREENVILLE NC	161.6	PLN	DTVPLN	-DTVP0273
08	WFXI-DT	MOREHEAD CITY NC	182.9	APP	USERRECORD-01	
Proposal causes no interference						

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Analysis of Interference to Affected Station 9

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
09	WSKY-TV	MANTEO NC	DTVPLN	-DTVP0206

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WFXI	MOREHEAD CITY NC	187.2	PLN	DTVPLN	-DTVP0145
09	WUSA	WASHINGTON DC	278.2	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	278.2	PLN	DTVPLN	-DTVP0188
09	WHMC	CONWAY SC	392.0	LIC	BLEDT	-20050830ACK
09	WHMC	CONWAY SC	392.0	PLN	DTVPLN	-DTVP0218
09	WHMC	CONWAY SC	392.0	CP	BPEDT	-20080620AKP
10	WNCT-TV	GREENVILLE NC	170.5	CP MOD	BMPCDT	-20040730ARH
10	WNCT-TV	GREENVILLE NC	170.5	PLN	DTVPLN	-DTVP0273
08	WFXI-DT	MOREHEAD CITY NC	187.2	APP	USERRECORD-01	
Proposal causes no interference						

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Analysis of Interference to Affected Station 10

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
08	WFXI-DT	MOREHEAD CITY NC	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WHRE	VIRGINIA BEACH VA	214.0	CP MOD	BMPCDT	-20080821ADP
07	WHRE	VIRGINIA BEACH VA	214.0	PLN	DTVPLN	-DTVP0105
08	WGHP	HIGH POINT NC	319.5	CP MOD	BMPCDT	-20080620ANG
08	WGHP	HIGH POINT NC	319.5	PLN	DTVPLN	-DTVP0144
08	WOLO-TV	COLUMBIA SC	399.2	LIC	BLCDT	-20021106AAU
08	WOLO-TV	COLUMBIA SC	399.2	PLN	DTVPLN	-DTVP0162
09	WSKY-TV	MANTEO NC	182.9	CP MOD	BMPCDT	-20080616AAG
09	WSKY-TV	MANTEO NC	187.2	PLN	DTVPLN	-DTVP0206

Total scenarios = 1

Table 1 WFXI(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 8)

Result key:	9		
Scenario	1	Affected station	10
Before Analysis			
Results for:	8A NC MOREHEAD CITY	USERRECORD01	APP
HAAT	248.0 m, ATV ERP	22.4 kW	
		POPULATION	AREA (sq km)
within Noise Limited Contour		353001	22347.2
not affected by terrain losses		353001	22347.2
lost to NTSC IX		0	0.0
lost to additional IX by ATV		0	0.0
lost to ATV IX only		0	0.0
lost to all IX		0	0.0

Potential Interfering Stations Included in above Scenario 1

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

SECTION III-D - DTV Engineering	
Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.	
<p>Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.</p> <p>Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.</p>	
1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input checked="" type="radio"/> Yes <input type="radio"/> No

SECTION III-D - DTV Engineering	
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 Number: DTV 8 Analog TV, if any
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 34 Minutes 53 Seconds 01 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 76 Minutes 30 Seconds 22 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1253623 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 1.5 meters
6.	Overall Tower Height Above Ground Level: 257.3 meters
7.	Height of Radiation Center Above Ground Level: 247 meters
8.	Height of Radiation Center Above Average Terrain : 247.4 meters
9.	Maximum Effective Radiated Power (average power): 22.4 kW

10.	<p>Antenna Specifications:</p> <p>a. Manufacturer ERI Model ETH-P2L8-8</p> <p>b. Electrical Beam Tilt: 1 degrees <input type="checkbox"/> Not Applicable</p> <p>c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable</p> <p>Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 43]</p> <p>d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical</p> <p>e. Directional Antenna Relative Field Values: <input type="checkbox"/> Not applicable (Nondirectional)</p> <p>[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]</p> <div style="text-align: center;"><p>10e. Directional Antenna Relative Field Values</p><p>[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]</p></div> <table border="1"><tr><td colspan="12">e. Directional Antenna Relative Field Values:</td></tr><tr><td colspan="12">Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation</td></tr><tr><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td></tr><tr><td>0</td><td>0.724</td><td>10</td><td>0.846</td><td>20</td><td>0.945</td><td>30</td><td>0.97</td><td>40</td><td>0.93</td><td>50</td><td>0.858</td></tr><tr><td>60</td><td>0.762</td><td>70</td><td>0.648</td><td>80</td><td>0.553</td><td>90</td><td>0.465</td><td>100</td><td>0.363</td><td>110</td><td>0.227</td></tr><tr><td>120</td><td>0.108</td><td>130</td><td>0.036</td><td>140</td><td>0.073</td><td>150</td><td>0.145</td><td>160</td><td>0.164</td><td>170</td><td>0.106</td></tr><tr><td>180</td><td>0.031</td><td>190</td><td>0.109</td><td>200</td><td>0.233</td><td>210</td><td>0.367</td><td>220</td><td>0.488</td><td>230</td><td>0.612</td></tr><tr><td>240</td><td>0.742</td><td>250</td><td>0.863</td><td>260</td><td>0.958</td><td>270</td><td>0.994</td><td>280</td><td>0.988</td><td>290</td><td>0.937</td></tr><tr><td>300</td><td>0.834</td><td>310</td><td>0.73</td><td>320</td><td>0.729</td><td>330</td><td>0.806</td><td>340</td><td>0.806</td><td>350</td><td>0.728</td></tr><tr><td colspan="2">Additional Azimuths</td><td>28</td><td>0.972</td><td>157</td><td>0.167</td><td>274</td><td>1</td><td>335</td><td>0.823</td><td></td><td></td></tr></table> <p style="text-align: center;">Relative Field Polar Plot</p>											e. Directional Antenna Relative Field Values:												Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation												Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	0	0.724	10	0.846	20	0.945	30	0.97	40	0.93	50	0.858	60	0.762	70	0.648	80	0.553	90	0.465	100	0.363	110	0.227	120	0.108	130	0.036	140	0.073	150	0.145	160	0.164	170	0.106	180	0.031	190	0.109	200	0.233	210	0.367	220	0.488	230	0.612	240	0.742	250	0.863	260	0.958	270	0.994	280	0.988	290	0.937	300	0.834	310	0.73	320	0.729	330	0.806	340	0.806	350	0.728	Additional Azimuths		28	0.972	157	0.167	274	1	335	0.823		
e. Directional Antenna Relative Field Values:																																																																																																																																			
Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation																																																																																																																																			
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value																																																																																																																								
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60	0.762	70	0.648	80	0.553	90	0.465	100	0.363	110	0.227																																																																																																																								
120	0.108	130	0.036	140	0.073	150	0.145	160	0.164	170	0.106																																																																																																																								
180	0.031	190	0.109	200	0.233	210	0.367	220	0.488	230	0.612																																																																																																																								
240	0.742	250	0.863	260	0.958	270	0.994	280	0.988	290	0.937																																																																																																																								
300	0.834	310	0.73	320	0.729	330	0.806	340	0.806	350	0.728																																																																																																																								
Additional Azimuths		28	0.972	157	0.167	274	1	335	0.823																																																																																																																										
	If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. Exhibit required. [Exhibit 44]																																																																																																																																		
11.	<p>Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if Certification Checklist Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>[Exhibit 45]</p> <p>If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.</p>																																																																																																																																		
12.	If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if Certification Checklist item 3 is answered "No.") [Exhibit 46]																																																																																																																																		
13.	<p>Environmental Protection Act. Submit in an Exhibit the following: [Exhibit 47]</p> <p>If Certification Checklist Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.</p> <p>By checking "Yes" to Certification Checklist Item 2, 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.</p> <p>If Certification Checklist Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.</p>																																																																																																																																		
PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.																																																																																																																																			

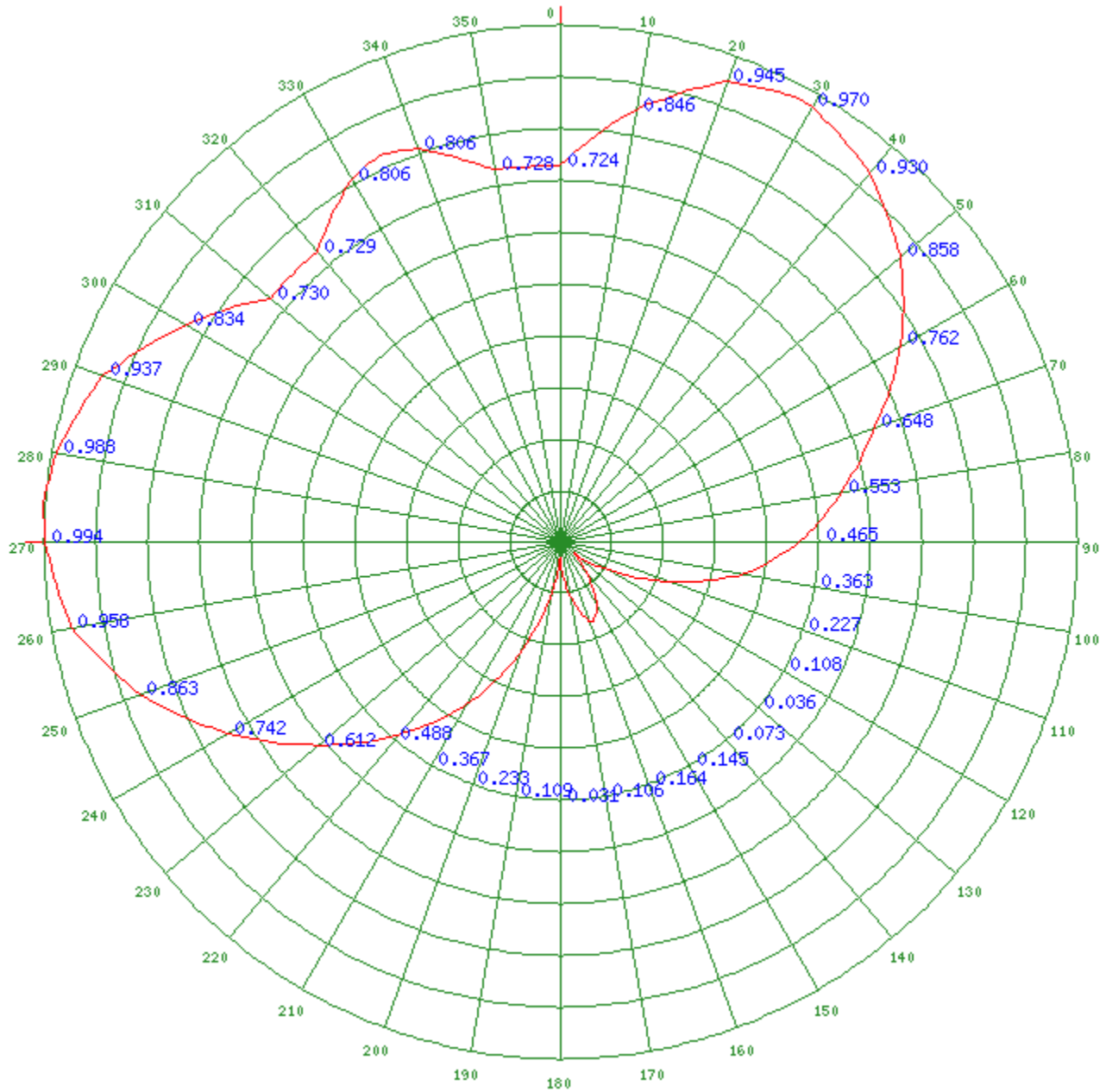
SECTION III - PREPARER'S CERTIFICATION

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 7/1/2009	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
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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