

ENGINEERING STATEMENT

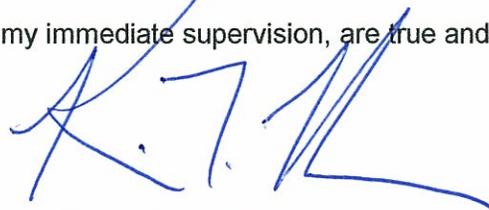
The engineering data contained herein have been prepared on behalf of SKY TELEVISION, L.L.C., licensee of WSKY-DT, Channel 4 in Manteo, North Carolina, in support of its Application for Construction Permit to operate on Channel 9 with a maximized post-transition DTV facility.

It is proposed to mount a standard ERI elliptically polarized directional antenna at the 306-meter level of the existing 316-meter tower on which the present WSKY-DT antenna is mounted. Exhibit B provides antenna azimuth and elevation pattern data for the proposed antenna. Exhibit C is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 43 dBu service contour. An interference study is included in Exhibit D. It is important to note that the interference study utilized a cell size of 1.0 kilometer and an increment spacing of 0.1 kilometer. A power density calculation is provided in Exhibit E.

It is not expected that the proposed facility would cause objectionable interference to any other broadcast or non-broadcast station authorized to operate at or near the WSKY-DT site. However, if such should occur, the owner of this station recognizes its obligation to take whatever corrective actions are necessary.

Since no change in overall height or location of the existing tower is proposed herein, the FAA has not been notified of this application. In addition, the FCC issued Antenna Structure Registration Number 1252202 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

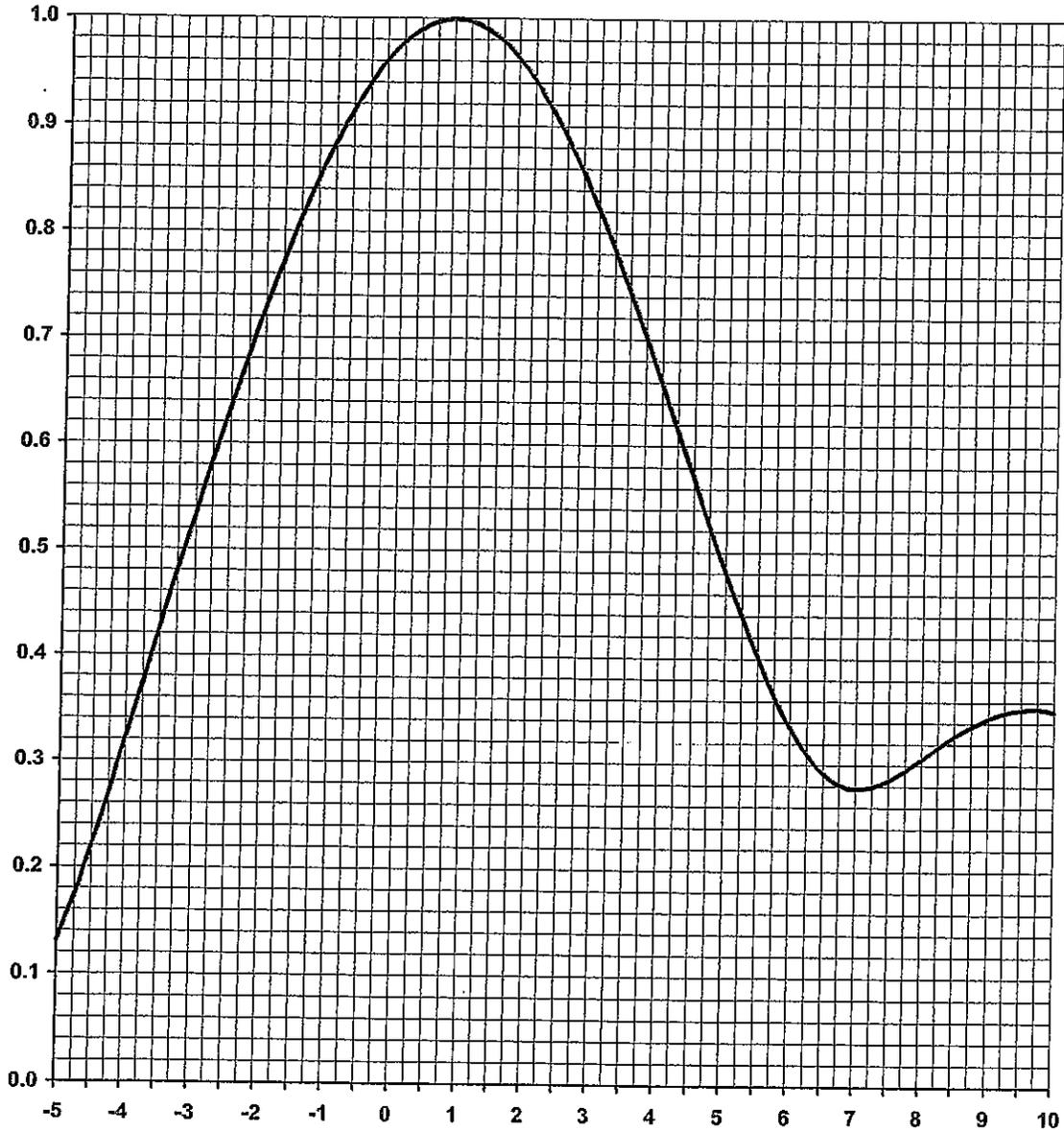
A handwritten signature in blue ink, appearing to read 'K. T. Fisher', is written over the text of the declaration.

KEVIN T. FISHER

June 10, 2008

ELEVATION PATTERN

TYPE:	ATW9V3H		Frequency:	9 (Digital)
Directivity:	Numeric	dBd	Location:	Manteo, NC
Main Lobe:	9.00	9.54	Beam Tilt:	0.75
Horizontal:	8.61	9.35	Polarization:	Horizontal



ELECTRONICS RESEARCH, INC. **ERI**

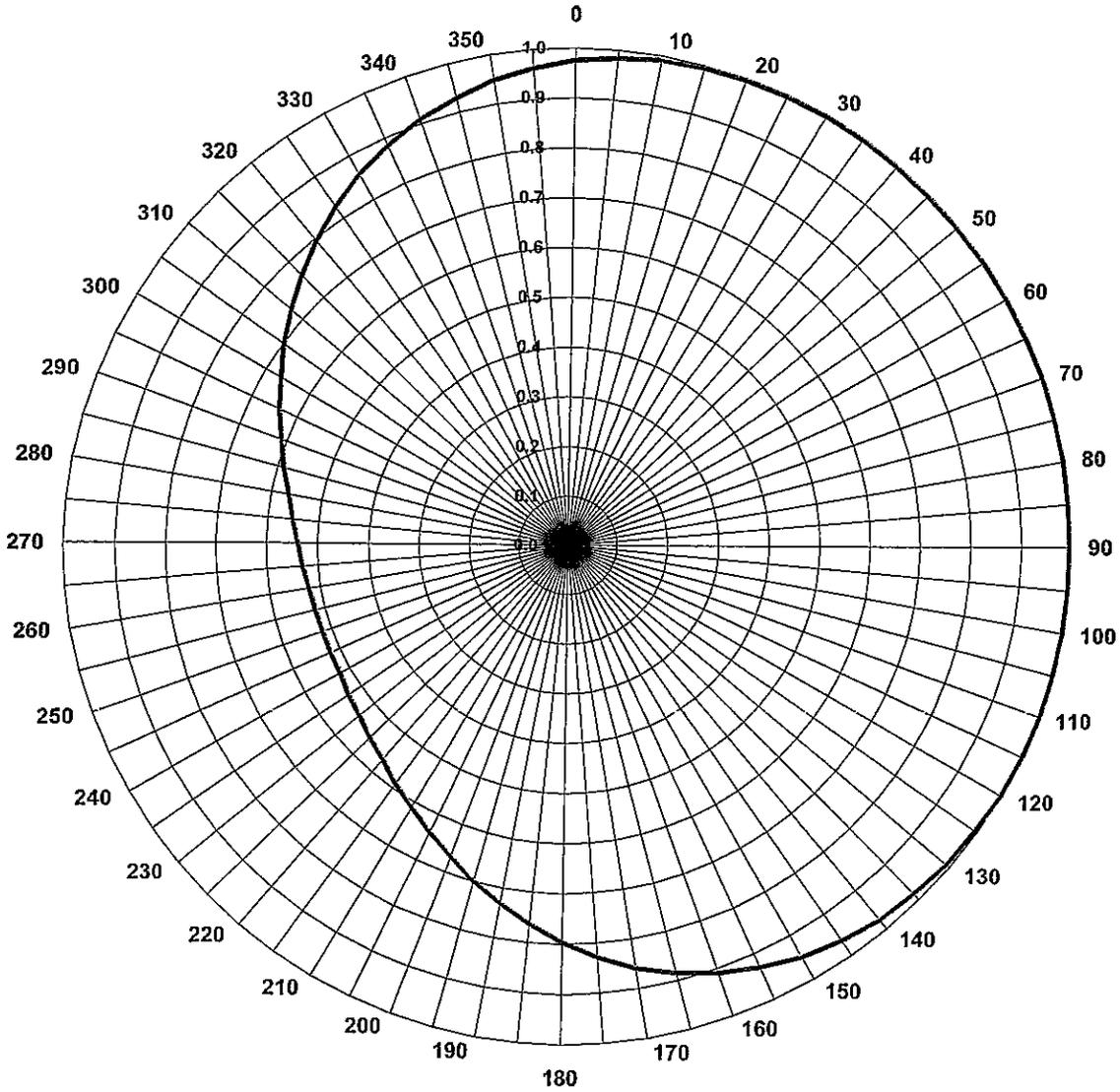
EXHIBIT B-1
ANTENNA ELEVATION PATTERN
PROPOSED WSKY-DT
CHANNEL 9 – MANTEO, NORTH CAROLINA
SMITH AND FISHER

AZIMUTH PATTERN

TYPE: CH9HAZ-CX
Directivity: Numeric 1.40 dB 1.46
Peak(s) at:

Polarization: Horizontal
Frequency: 9 (Digital)
Location: Manteo, NC

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



ELECTRONICS RESEARCH, INC. **ERI**

EXHIBIT B-2
ANTENNA AZIMUTH PATTERN
PROPOSED WSKY-DT
CHANNEL 9 - MANTEO, NORTH CAROLINA
SMITH AND FISHER

ANTENNA AZIMUTH PATTERN DATA
PROPOSED WSKY-DT
CHANNEL 9 – MANTEO, NORTH CAROLINA

<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)	<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)
0	0.976	19.1	180	0.796	17.4
10	0.991	19.3	190	0.730	16.6
20	0.998	19.3	200	0.666	15.8
30	1.000	19.3	210	0.610	15.0
40	0.999	19.3	220	0.566	14.4
50	0.998	19.3	230	0.537	13.9
60	0.997	19.3	240	0.521	13.5
70	0.997	19.3	250	0.517	13.6
80	0.997	19.3	260	0.521	13.5
90	0.997	19.3	270	0.537	13.9
100	0.999	19.3	280	0.566	14.4
110	1.000	19.3	290	0.610	15.0
120	0.998	19.3	300	0.666	15.8
130	0.991	19.3	310	0.730	16.6
140	0.976	19.1	320	0.796	17.4
150	0.949	19.1	330	0.858	18.0
160	0.910	18.5	340	0.910	18.5
170	0.858	18.0	350	0.949	19.1

CONTOUR POPULATION

43 DBU : 1,725,762

36 DBU : 1,799,214

SMITH and FISHER



EXHIBIT C

PREDICTED SERVICE CONTOURS

**PROPOSED WSKY-DT
CHANNEL 9 - MANTEO, NORTH CAROLINA**

SMITH AND FISHER

INTERFERENCE STUDY
PROPOSED WSKY-DT
CHANNEL 9 – MANTEO, NORTH CAROLINA

The instant application specifies an ERP of 85 kw (directional) at 306 meters above average terrain, which we have determined to be allowable under the FCC's recently approved interference standards with respect to various digital television facilities as they will exist on or before February 17, 2009, the date by which all stations must operate with the parameters recently adopted in the Commission's DTV Table of Allotments.

In evaluating the interference effect of this proposal, we have relied upon the V-Soft Communications "Probe III" computer program, which has been found generally to mimic the FCC's program. In conducting our studies, we employed a cell size of 1.0 kilometers and an increment spacing of 0.1 kilometer along each radial. In addition, we utilized the 2000 U.S. Census. Changes in interference caused by proposed WSKY-DT to other pertinent stations are tabulated in Exhibit D-2.

As shown, the proposed WSKY-DT facility would not contribute more than 0.5% interference (beyond that which is caused by the allotted WSKY-DT facility) to the service population of any potentially affected post-transition DTV station.

A Longley-Rice interference study also reveals that the proposed WSKY-DT facility does not cause significant (0.5%) interference within the protected service contour of any potentially affected Class A low power television station.

Therefore, this proposal meets the FCC's *de minimis* interference standards for DTV operations.

INTERFERENCE STUDY SUMMARY
PROPOSED WSKY-DT
CHANNEL 9 – MANTEO, NORTH CAROLINA

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From WSKY-DT*</u>	<u>%</u>
WUSA-DT	Washington, D.C.	9	7,246,610	27,637	0.4
WNCT-DT	Greenville, NC	10	1,618,400	682	<0.1
WHMC-DT	Conway, SC	9	779,243	157	<0.1

*Above that caused by the WSKY-DT allotment facility.

Note: This study utilized a cell size of 1.0 km and an increment spacing of 0.1 km.

POWER DENSITY CALCULATION

PROPOSED WSKY-DT
CHANNEL 9 – MANTEO, NORTH CAROLINA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Manteo facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 85 kw (H) and 17 kw (V), an antenna radiation center 306 meters above ground, and the elevation pattern of the ERI antenna, maximum power density two meters above ground of 0.00041 mw/cm^2 is calculated to occur 148 meters east of the base of the tower. Since this is only 0.2 percent of the 0.2 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 9 (186-192 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.