

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY CHRISTIAN CENTER OF SANTA ANA, INC., licensee of full-power digital television station WHLV-DT, Channel 51 in Cocoa, Florida, in support of its Application for Construction Permit to specify operation on its post-repack channel, Channel 32. No change in site location, antenna azimuth pattern or antenna height is proposed herein.

It is proposed to utilize the existing Dielectric directional horizontally-polarized broadband panel antenna which is mounted at the 485-meter level of the existing 513-meter WHLV-DT tower. The proposed effective radiated power for the facility is 699 kW, which is the allotted repack power level for WHLV-DT. Exhibit B is a map upon which the predicted service contours are plotted. As shown, the community of Cocoa is completely encompassed by the proposed 48 dBu city-grade service contour.

Azimuth and elevation pattern information for the licensed WHLV-DT antenna appear in Exhibit C. Since the facility proposed herein essentially specifies the repack allotment facility assigned to WHLV-DT, no interference study is included herein. A power density calculation is included as Exhibit D.

Since no change in the overall height or location of the existing WHLV-DT tower is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, the Federal Communications Commission issued Antenna Structure Registration Number 1212124 to this tower.

EXHIBIT A

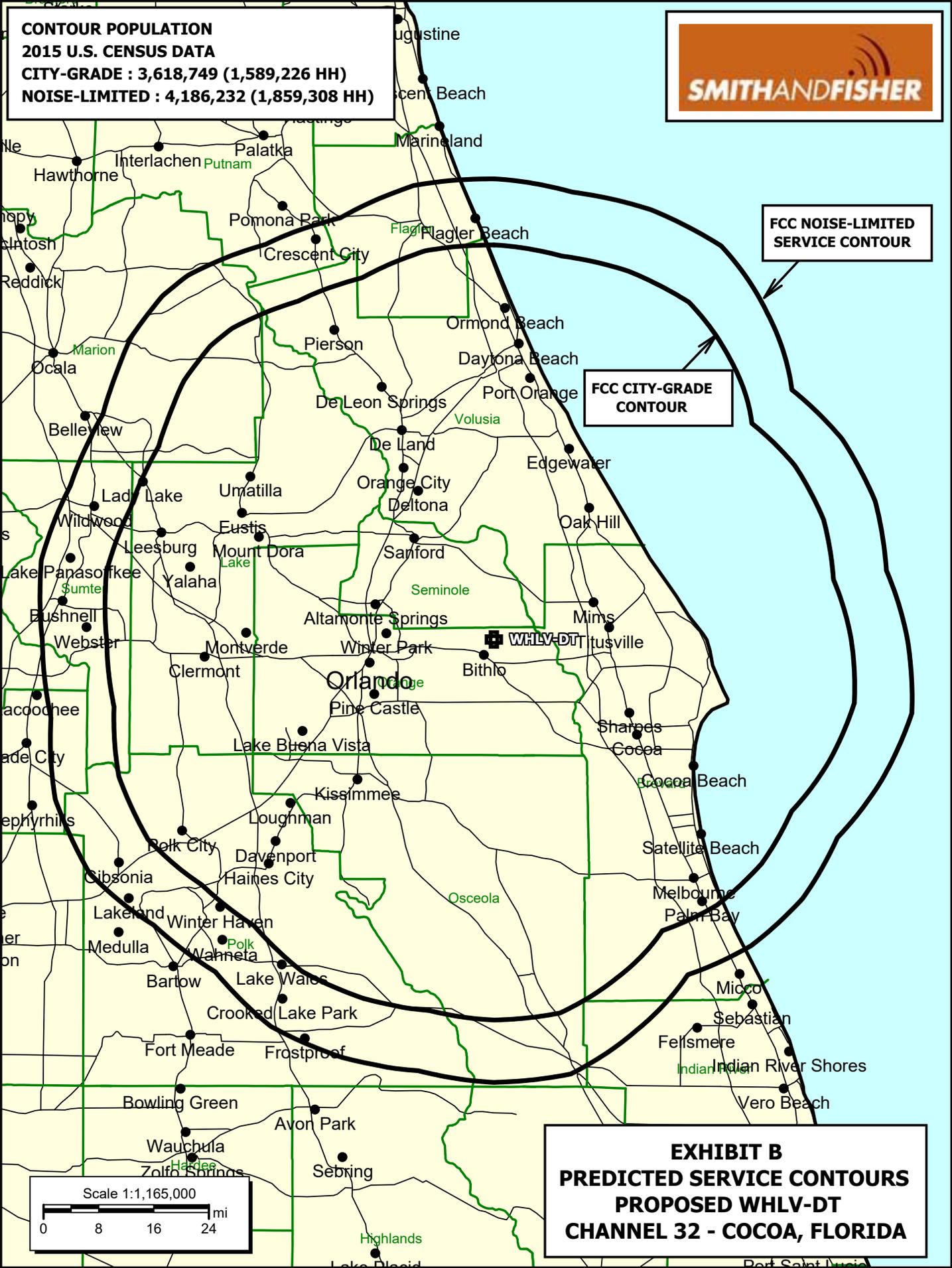
I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read "K. T. Fisher". The signature is stylized with a large "K" and "F" and a smaller "T".

KEVIN T. FISHER

May 22, 2017

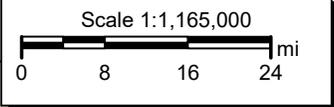
CONTOUR POPULATION
2015 U.S. CENSUS DATA
CITY-GRADE : 3,618,749 (1,589,226 HH)
NOISE-LIMITED : 4,186,232 (1,859,308 HH)



FCC NOISE-LIMITED SERVICE CONTOUR

FCC CITY-GRADE CONTOUR

EXHIBIT B
PREDICTED SERVICE CONTOURS
PROPOSED WHLV-DT
CHANNEL 32 - COCOA, FLORIDA



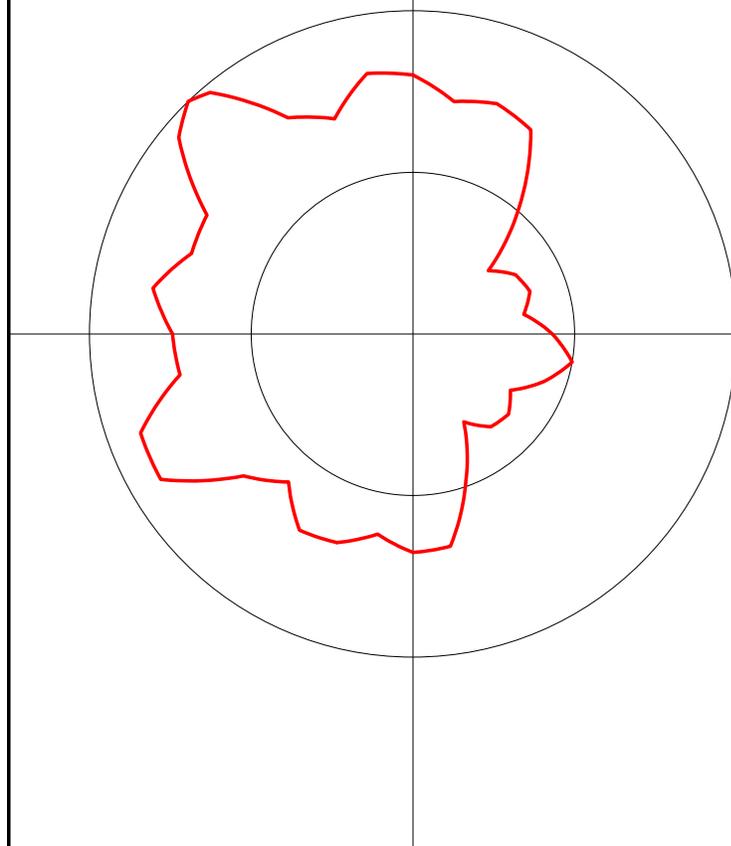
WHLV-DT Licensed Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	0.801
10.0	0.73
20.0	0.758
30.0	0.729
40.0	0.51
50.0	0.304
60.0	0.366
70.0	0.385
80.0	0.348
90.0	0.431
100.0	0.5
110.0	0.431
120.0	0.348
130.0	0.386
140.0	0.375
150.0	0.314
160.0	0.48
170.0	0.667
180.0	0.676
190.0	0.629
200.0	0.687
210.0	0.701
220.0	0.598
230.0	0.683
240.0	0.9
250.0	0.896
260.0	0.731
270.0	0.743
280.0	0.816
290.0	0.728
300.0	0.735
310.0	0.945
316.0	1.0
320.0	0.975
330.0	0.772
340.0	0.708
350.0	0.818

Rotation Angle = 0

EXHIBIT C





Proposal Number **DCA-10794** Revision: **1**
 Date **4-Mar-08**
 Call Letters **0** Channel **51**
 Location **Orlando, FL**
 Customer **Richland**
 Antenna Type **TUD-C5SP-16/56H-2-B**

ELEVATION PATTERN

RMS Gain at Main Lobe	25.80 (14.12 dB)	Beam Tilt	0.80 deg
RMS Gain at Horizontal	6.50 (8.13 dB)	Frequency	695.00 MHz
Calculated / Measured	Calculated	Drawing #	16U345080-80

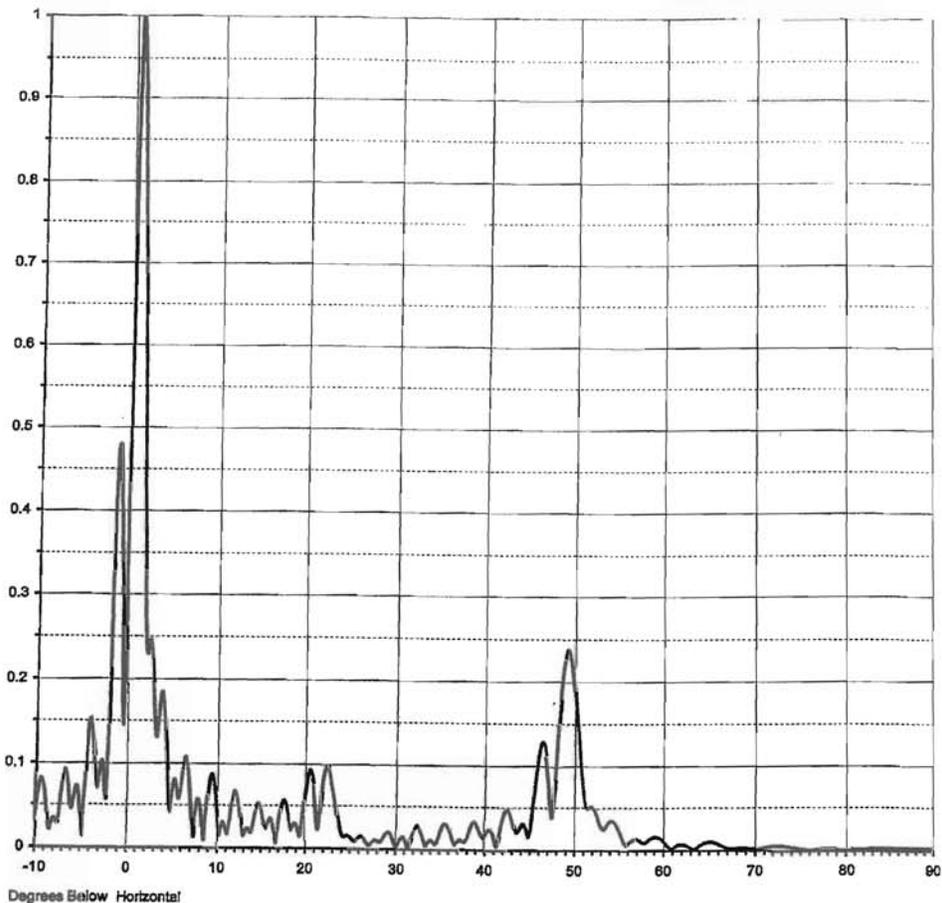


EXHIBIT B-1
ANTENNA ELEVATION PATTERN
PROPOSED WHLV-DT
CHANNEL 51 – COCOA, FLORIDA
SMITH AND FISHER

POWER DENSITY CALCULATION

PROPOSED WHLV-DT
CHANNEL 32 – COCOA, FLORIDA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Cocoa facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 699 kW, an antenna radiation center 485 meters above ground, and the specific elevation pattern of the licensed Dielectric antenna, maximum power density two meters above ground of 0.0032 mW/cm^2 is calculated to occur 435 meters from the base of the tower. Since this is only 0.8 percent of the 0.39 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 32 (578-584 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing 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 non-ionizing radiation.