

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of KHOU-TV, INC., licensee of KHOU-DT, Channel 31 in Houston, Texas, in support of its Application for Construction Permit to operate on Channel 11 with its post-transition DTV facility.

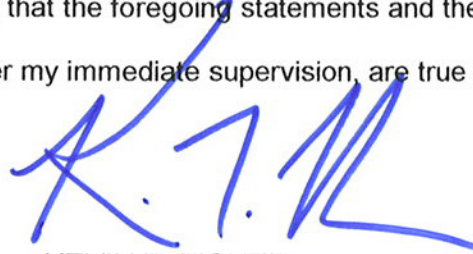
It is proposed to mount a standard Dielectric omnidirectional antenna at the 590-meter level (the present KHOU-TV antenna aperture) on the existing 602-meter tower on which the present KHOU-DT antenna is mounted. Exhibit C is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 43 dBu service contour. It can be seen in Exhibit D that the proposed 36 dBu contour extends slightly beyond that of the allotment facility assigned to KHOU-DT in Appendix B of the Commission's DTV Table of Allotments. However, at no azimuth does the proposed contour exceed that of the allotment facility by more than five miles. Accordingly, since the station's post-transition DTV Channel (11) is different than its pre-transition DTV Channel (31), the applicant requests a waiver of the current freeze on the filing of such an application. An interference study is included in Exhibit E, and a power density calculation is provided in Exhibit F.

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 KHOU-DT site. However, if such should occur, the owner of this station recognizes its obligation to take whatever corrective actions are necessary.

EXHIBIT A

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 1011350 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

February 25, 2008

Dielectric

Exhibit No.

Date **04 Feb 2008**
Call Letters **KHOU-DT**
Location **Houston**
Customer
Antenna Type **TCL-12A11**

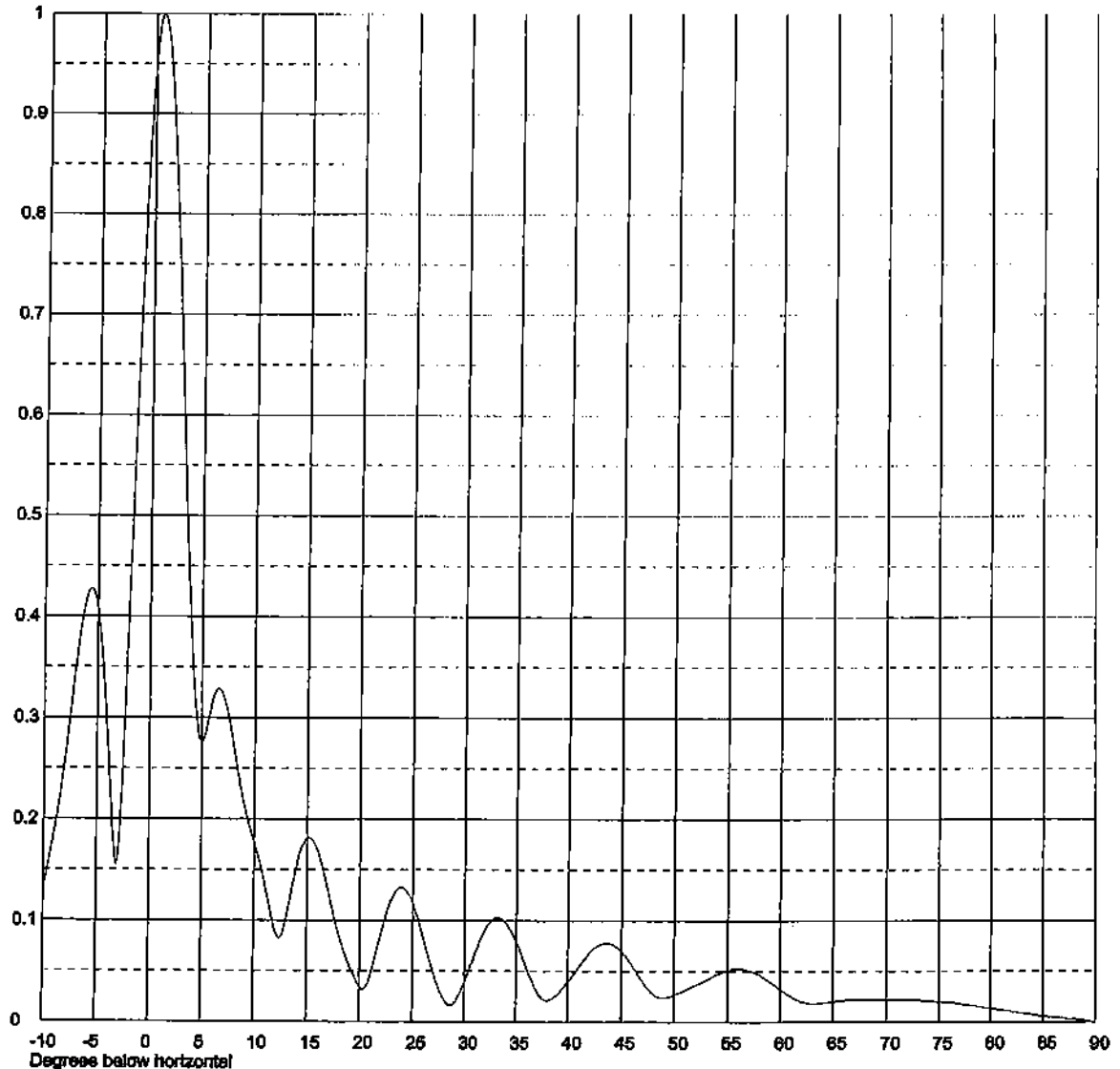
Channel **11**

ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

5.2 (7.16 dB)
4.7 (6.72 dB)
Calculated

Beam Tilt **0.75 Degrees**
Frequency **201.00 MHz**
Drawing # **02T052075-90**



Remarks:

EXHIBIT B

ANTENNA ELEVATION PATTERN

PROPOSED KHOU-DT
CHANNEL 11 - HOUSTON, TEXAS

SMITH AND FISHER





INTERFERENCE STUDY
PROPOSED KHOU-DT
CHANNEL 11 – HOUSTON, TEXAS

The instant application specifies an ERP of 25 kw (omnidirectional) at 593 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 2.0 kilometers and an increment spacing of 1.0 kilometer along each radial. In addition, we utilized the 2000 U.S. Census. Changes in interference caused by proposed KHOU-DT to other pertinent stations are tabulated in Exhibit E-2.

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

A Longley-Rice interference study also reveals that the proposed KHOU-DT facility does not cause significant (0.5%) interference within the protected 74 dBu 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.

EXHIBIT E-2

INTERFERENCE STUDY SUMMARY

PROPOSED KHOU-DT
CHANNEL 11 – HOUSTON, TEXAS

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From KHOU-DT*</u>	<u>%</u>
KVCT-DT Allotment	Victoria, TX	11	297,148	1,154	0.4
KTVT-DT Allotment	Fort Worth, TX	11	5,490,597	53	<0.1
KAMU-DT Allotment	College Station, TX	12	292,654	0	0

*above that caused by KHOU-DT allotment facility

EXHIBIT F

POWER DENSITY CALCULATION

PROPOSED KHOU-DT
CHANNEL 11 – HOUSTON, TEXAS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Houston facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 25 kw (H, V), an antenna radiation center 590 meters above ground, and the elevation pattern of the Dielectric antenna, maximum power density two meters above ground of 0.00015 mw/cm^2 is calculated to occur 905 meters from the base of the tower. Since this is less than 0.1 percent of the 0.2 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 11 (198-204 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.