

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of CHANNEL 49 ACQUISITION CORPORATION, licensee of full-power digital television station KTEN-DT, Channel 26 in Ada, Oklahoma, in support of its application for modification of Construction Permit 0000027669, which specifies operation on its post-repack channel, Channel 17. The purpose of this modification is to propose an increase in the station's effective radiated power to 1000 kW and an increase in antenna height. No change in site location or antenna elevation pattern is proposed herein.

It is proposed to mount an ERI omnidirectional horizontally-polarized slotted cylinder antenna at the 424-meter level of the existing 444-meter tower on which the present KTEN-DT antenna is mounted. Exhibit B is a map upon which the predicted service contours are plotted. As shown, the community of Ada is completely encompassed by the proposed 48 dBu city-grade service contour.

Elevation pattern information for the proposed antenna is provided in Exhibit C. Exhibit D contains the summary results from a TVStudy interference study, which was conducted using a cell size of 2.0 kilometers and increment spacing of 1.0 kilometer. It concludes that the proposed KTEN-DT facility meets the Commission's *de minimis* interference criteria to all co-channel and adjacent-channel post-repack full-power and Class A facilities. A power density calculation appears as Exhibit D.

Since no change in the overall height or location of the existing KTEN-DT tower is proposed herein, the Federal Aviation Administration has not been notified of this application.

EXHIBIT A

In addition, the Federal Communications Commission issued Antenna Structure Registration Number 1011425 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', with a stylized flourish at the end.

KEVIN T. FISHER

October 10, 2017

CONTOUR POPULATION
2015 U.S. CENSUS DATA
CITY-GRADE : 418,178 (190,479 HH)
NOISE-LIMITED : 607,430 (270,287 HH)

SMITHANDFISHER

**FCC NOISE-LIMITED
SERVICE CONTOUR**

**FCC CITY-GRADE
CONTOUR**

EXHIBIT B
PREDICTED SERVICE CONTOURS
PROPOSED KTEN-DT
CHANNEL 17 - ADA, OKLAHOMA

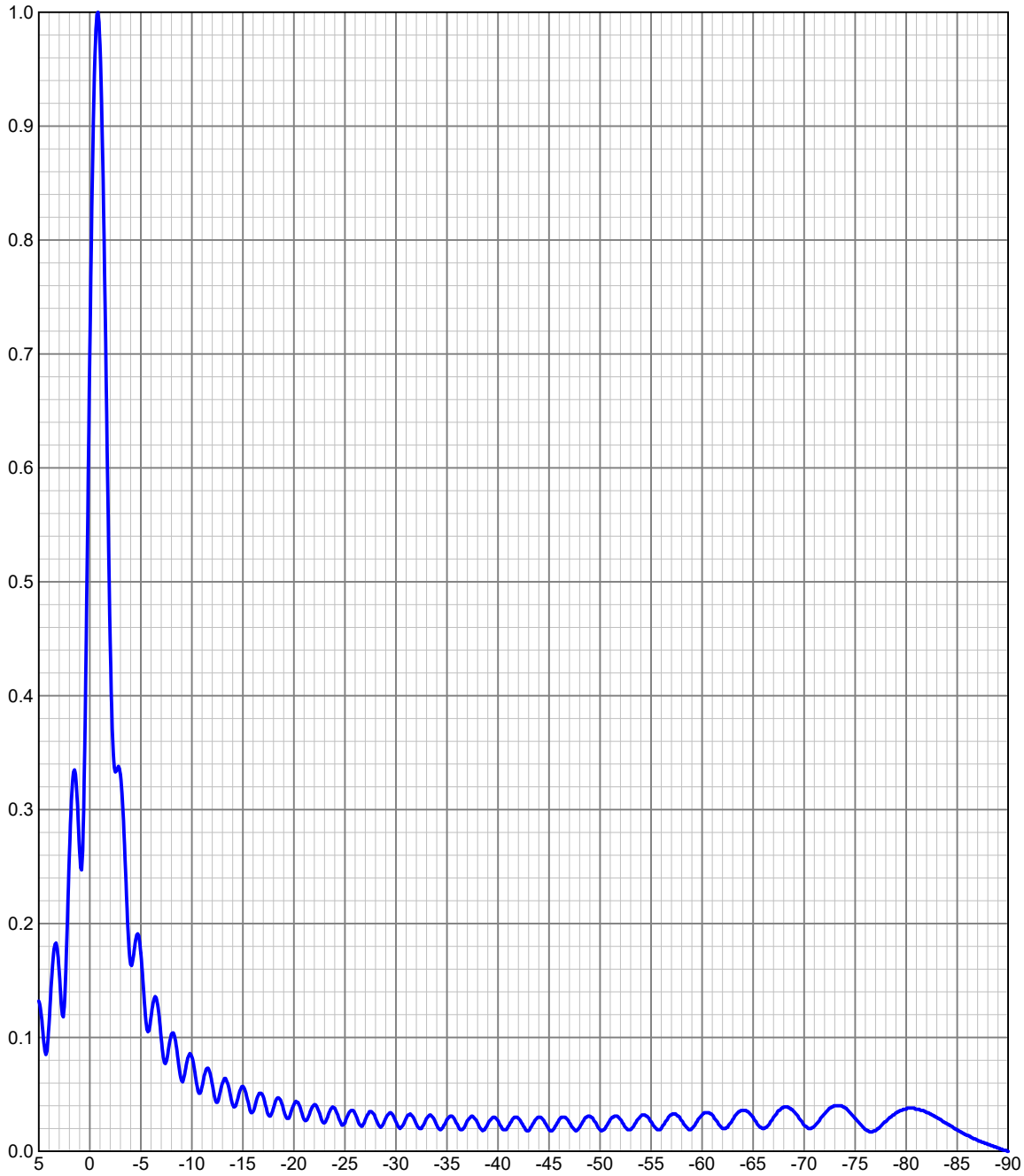
Scale 1:1,250,000

0 8 16 24 mi

ELEVATION PATTERN

Type:	ATW32H3H		Channel:	17
Directivity:	Numeric	dBd	Location:	
Main Lobe:	32.00	15.05	Beam Tilt:	-0.75
Horizontal:	15.77	11.98	Polarization:	Horizontal

Relative Field



Preliminary, subject to final design and review.

TVSTUDY INTERFERENCE ANALYSIS RESULTS
PROPOSED KTEN-DT
CHANNEL 17 – ADA, OKLAHOMA

Study created: 2017.10.10 10:42:06

Study build station data: LMS TV 2017-10-05 (4)

Proposal: KTEN D17 DT CP ADA, OK
File number: BLANK0000027669
Facility ID: 35666
Station data: User record
Record ID: 43
Country: U.S.
Zone: II

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KLTS-TV	D17	DT	CP	SHREVEPORT, LA	BLANK0000028110	307.4 km
KLTS-TV	D17	DT	BL	SHREVEPORT, LA	DTVBL38591	307.4
KSNF	D17	DT	CP	JOPLIN, MO	BLANK0000027633	352.0
KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	352.0
KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	205.6
KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	205.6
KOPX-TV	D18	DT	CP	OKLAHOMA CITY, OK	BLANK0000026989	161.6
KOPX-TV	D18	DT	BL	OKLAHOMA CITY, OK	DTVBL2566	161.6
KTXA	D18	DT	CP	FORT WORTH, TX	BLANK0000024934	205.2
KTXA	D18	DT	BL	FORT WORTH, TX	DTVBL51517	205.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Latitude: 34 21 34.00 N (NAD83)
Longitude: 96 33 35.00 W
Height AMSL: 691.9 m
HAAT: 426.0 m
Peak ERP: 1000 kW
Antenna: Omnidirectional

Elev Pattn: Generic

Elec Tilt: 0.75

39.0 dBu contour:

Azimuth (deg.)	ERP (kW)	HAAT (m.)	Distance (km)
0.0	1000	420.5	112.8
45.0	1000	478.6	117.4
90.0	1000	466.3	116.5
135.0	1000	463.5	116.3
180.0	1000	468.9	116.7
225.0	1000	454.7	115.7
270.0	1000	414.2	112.2
315.0	1000	394.3	110.3

Database HAAT does not agree with computed HAAT

Database HAAT: 426 m Computed HAAT: 445 m

ERP exceeds maximum

ERP: 1000 kW ERP maximum: 681 kW

**Proposal service area extends beyond baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1442.1 km

Distance to Mexican border: 683.9 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 347.9 degrees Distance: 747.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 312.4 degrees Distance: 998.0 km

No land mobile station failures found

Study cell size: 2.00 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%

No IX check failures found.

POWER DENSITY CALCULATION

PROPOSED KTEN-DT
CHANNEL 17 – ADA, OKLAHOMA

[MODIFICATION OF CONSTRUCTION PERMIT 0000027669]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Ada facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1000 kW, an antenna radiation center 424 meters above ground, and the specific elevation pattern of the proposed ERI ATW32H3-HSO-17H antenna, maximum power density two meters above ground of 0.00029 mW/cm^2 is calculated to occur 71 meters from the base of the tower. Since this is less than 0.1 percent of the 0.33 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 17 (488-494 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.