

EXHIBIT 1
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PURPOSE OF APPLICATION
Kansas Capital Broadcasting, Inc.
Topeka, KS

KTPK operates on FM Channel 295C with a nondirectional effective radiated power of 100 kilowatts at 369 meters above average terrain. The attached application proposes to modify the KTPK license to correct the licensed geographic coordinates to conform to those specified in the Antenna Structure Registration ("ASR") for the tower that supports the KTPK antenna.

The geographic coordinates specified in the ASR (1031887) for the tower that supports the KTPK antenna, when converted to the NAD 27 datum, are:

NL - 39° 01' 34"
WL - 95° 55' 01"

Pursuant to Section 73.1690(c)(11) of the FCC Rules, a coordinate correction may be accomplished in the context of a license modification application so long as the corrected geographic coordinates differ from the previously licensed values by no more than 3 seconds in latitude and/or 3 seconds in longitude, no physical changes are made in the actual tower location, and the coordinate correction does not create any new short spacings or aggravate any existing short spacings. The instant situation involves a coordinate correction of three seconds of longitude with no change in the actual physical location of this tower. Furthermore, at the corrected site coordinates, KTPK will not be short spaced to any other station requiring protection consideration. Accordingly, this coordinate correction does not require the filing of a construction permit application and can be accomplished in the context of the attached license modifi-

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cation application. Figure 1.0 is a vertical plan view of this tower depicting the existing KTPK antenna system.

There are no AM broadcast facilities located within 3.2 kilometers of the KTPK transmitter site. Thus, it is not necessary to demonstrate compliance with Section 73.1692 of the FCC Rules as a part of this application.

KTPK will continue to fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The tower that supports the KTPK antenna also supports the antennas for several other FM and TV broadcast stations. KTPK utilizes a Harris FMH-10AC omnidirectional antenna that is mounted 349 meters above ground level. The power density levels at two meters above ground level for KTPK were calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 1.1. As can be seen from an examination of this figure, the maximum power density predicted for the KTPK facilities at two meters above ground level is $2.85 \mu\text{W}/\text{cm}^2$, which occurs at a horizontal distance of 84 meters from the base of this tower. Since the maximum permitted power density level for uncontrolled exposure in the FM band is $200 \mu\text{W}/\text{cm}^2$, this amounts to only 1.43% of the permitted level for uncontrolled exposure. Since this value is less than 5% of the permitted level, KTPK is excluded from environmental processing under this standard and need not be considered in conjunction with other co-located or nearby facilities in evaluating compliance with this standard.

KTPK, in conjunction with these other co-located facilities, will continue to take appropriate steps to insure that workers that must be on this tower will not be exposed to levels of nonionizing radiation that are in excess of the level permitted for controlled

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exposure. These steps will include the cessation of operation or a reduction in power by one or more of these stations, as appropriate, when work becomes necessary in the areas on this tower where the total power density levels will be in excess of the permitted level for controlled exposure.

TOWER IS ALSO
AUTHORIZED TRANSMITTER
SITE FOR:
WIBW-FM (CP)
KMAJ-FM (LIC.)
KTKA-DT
K55IL

ANTENNA
STRUCTURE
REGISTRATION
NUMBER:
1031887



EXISTING KTKA-TV
ANTENNA

EXISTING KTPK
ANTENNA

2549' (777.0 m) MSL

2255' (687.3 m) MSL

1439'
(438.7 m)

1110' (338.3 m) MSL

1145'
(349.0 m)

NOT TO SCALE

NL - 39° 01' 34"

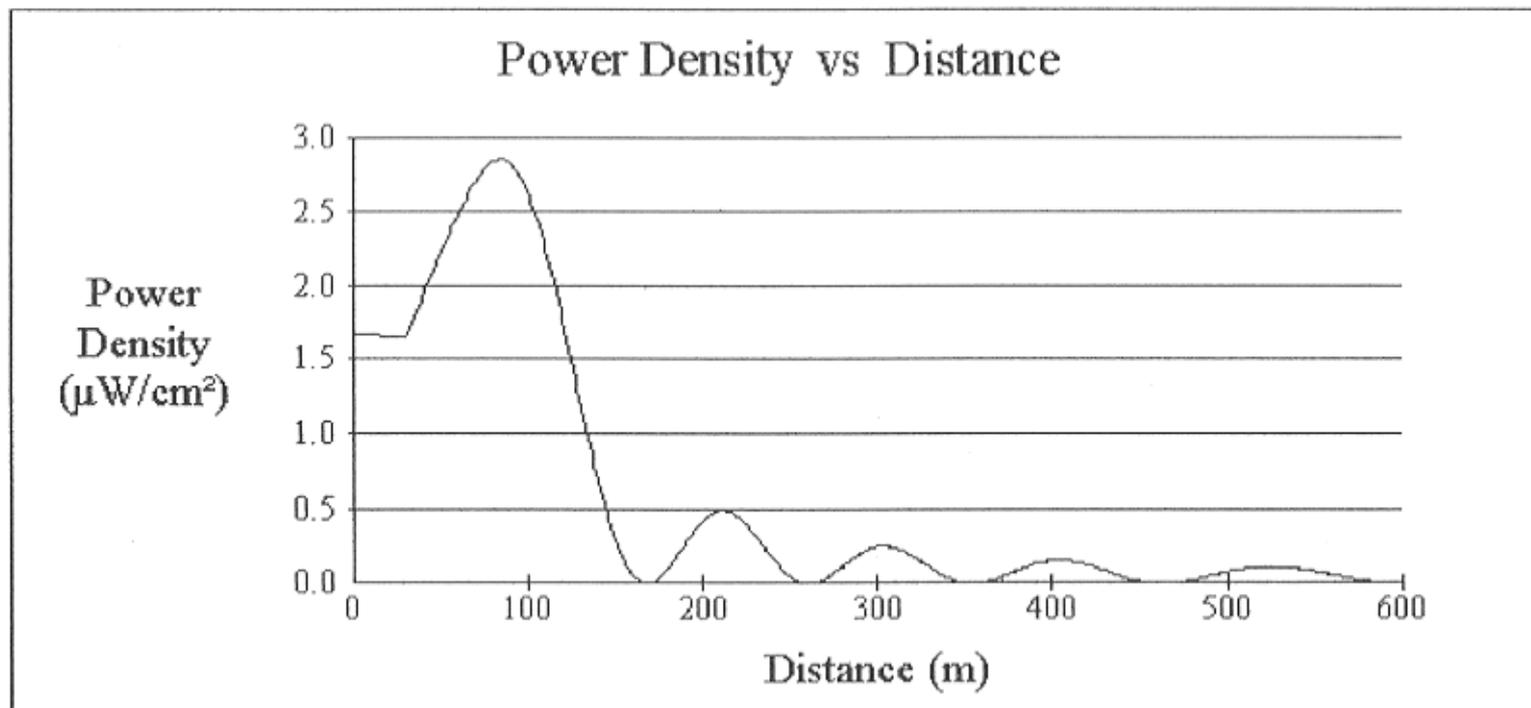
WL - 95° 55' 01"

CARL E. SMITH CONSULTING ENGINEERS
2324 N. CLEVE-MASS., RD. BOX 807
BATH, OHIO 44210-0807
(330) 659-4440

FIG. 1.0

VERTICAL PLAN VIEW

KANSAS CAPITAL BROADCASTING, INC.
TOPEKA, KS



Office of Engineering and Technology

Distance (m):	600	Antenna Type:	ERI or JAMPRO JBCP "Rototiller" (EPA)
Horizontal ERP (W):	100000	Number of Elements:	10
Vertical ERP (W):	100000	Element Spacing:	1
Antenna Height (m):	349		

FIG. 1.1

KTPK POWER DENSITY CALCULATIONS

Kansas Capital Broadcasting, Inc.
Topeka, KS