

TECHNICAL EXHIBIT CONCERNING  
THE TV CLASS A LICENSE APPLICATION FROM  
STATION K16EL  
DAVENPORT, IOWA

This Technical Statement supports the Class A TV license application from low power television (LPTV) station K16EL on channel 16 at Davenport, Iowa. In particular, this statement addresses the interference issues raised in Part A, Section 1 on page 5 of FCC Form 302-CA. The Federal Communications Commission (FCC) Consolidated Database System (CDBS) has been the source of the technical information employed for the TV assignments employed in the interference studies conducted.

According to the FCC's TV database, station K16EL has a construction permit (CP) to operate on channel 16 with a zero (0) carrier offset (BPTTL-JG0601JW, Facility ID 74376). A directional antenna (DA) system is employed with the major lobes oriented toward 0 and 130 degrees True (north & southeast). The maximum visual effective radiated power (ERP) is 16 kilowatts (kW). The antenna center of radiation is located 466 meters above mean sea level (AMSL). The maximum antenna height above average terrain (HAAT) is 270 meters. The transmitter site coordinates are 41-36-22, 90-59-35.

Interference studies have been performed using the methods outlined in the FCC rules. Where appropriate, interference calculations have been made using the procedures outlined in the FCC's OET-69 Bulletin and a 1 square kilometer grid.

With respect to other authorized full service and LPTV assignments operating on analog (NTSC) channels, a study was performed using the FCC's normal LPTV allocation method (i.e., separations & non-overlapping predicted contours, LPONE). The study indicates station K16EL has no allocation problems with other analog operations.

With respect to digital television (DTV) assignments and allotments on channels 15, 16 and 17, interference calculations have been made using the procedures outlined in the FCC's OET-69 Bulletin and a 1 square kilometer grid. The following is a summary of the calculated interference caused by the K16EL operation to pertinent surrounding DTV assignments and allotments.

<u>DTV Assignment</u>	<u>Channel</u>	<u>Service Population</u>	<u>Interference Population</u>
WTVO-DT, Rockford, IL	DTV-16	1,040,000 (App)	218 (0.02%)
WTVO-DALT, Rockford, IL	DTV-16	881,000	26 (0.00%)
KDSM-DT, Des Moines, IA	DTV-16	925,000 (App)	19 (0.00%)

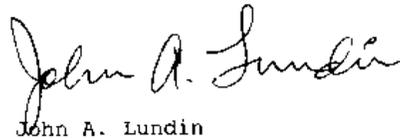
No calculated interference is caused by the K16EL operation to any other known DTV assignment or allotment. As shown, the K16EL operation complies with the FCC's interference requirements.

The K16EL operation does not cause interference to land mobile radio stations (LMRS) as specified in Section 73.6020 and 74.709 of the FCC rules.

Page3  
Davenport, Iowa

In summary, as indicated by the above narrative, it is believed station K16EL complies with the FCC's interference criteria for Class A status.

If there are questions concerning this Technical Statement, please communicate with the office of the undersigned.



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