

ENGINEERING EXHIBIT
REQUEST FOR SPECIAL TEMPORARY AUTHORITY (STA)
DIGITAL TELEVISION STATION KAAL-DT
AUSTIN, MINNESOTA
CH. 36 324 kW 326 M

This Engineering Statement was prepared on behalf of KAAL-TV, LLC concerning a request from station KAAL-DT to operate post-transition with Special Temporary Authority (“STA”). DTV station KAAL-DT has a post-transition allotment for operation on channel 36 with a non-directional effective radiated power (ERP) of 500 kilowatts and an antenna radiation center height above average terrain (HAAT) of 295 meters, employing a non-directional antenna. Station KAAL-DT also has a pending post-transition maximization application (BPCDT-20080422AAE) which proposes operation from the KTTC-DT authorized STA (BDSTA-20020424ABD) site, (N 43-38-34, W 92-31-35). The application proposed a non-directional ERP of 620 kilowatts and an HAAT of 326 meters.

This STA requests a post-transition operation on channel 36 employing KTTC-DT’s current pre-transition digital STA (BDSTA-20020424ABD) facilities. The details and specifications of the proposed operation are summarized in the table below:

Parameter	Proposed
Call Sign	KAAL-DT
Channel	36
City of License	Austin, MN
Facility ID	18285
FCC ASRN	1063897

Parameter	Proposed
Geographic coordinates (NAD27)	43-38-34 N 92-31-35 W
Site elevation	412 m AMSL
Overall structure height AGL(with all appurtenances)	350 m
Antenna radiation center height AGL	326 m
Antenna radiation center height AMSL	740 m
Antenna radiation center HAAT	328 m
Antenna, make and model	DIE, TFU-26DSC-R O3
Antenna type	Directional, horizontally-polarized
Major lobe orientation	0° T
Electrical beam tilt	0.7°
Mechanical beam tilt	Not Applicable
Maximum horizontally-polarized ERP	324 kW (25.1 dBk)
Maximum vertically-polarized ERP	Not Applicable

There will be no change in the overall height of the existing antenna structure as a result of the proposed STA operation. The FCC Tower Registration Number for the existing structure is 1063897.

Figure 1 is a map showing the FCC Predicted noise limited (41 dBu) and city grade (48 dBu) contours. As shown, the proposed STA facility will provide an FCC Predicted 48 dBu signal to the entire city limits of Austin.

A post transition OET-69 interference analysis was conducted for the proposed STA facility. Figure 2 is a copy of the interference run. The interference analysis was conducted based on employing 2000 U.S. Census data, a cell size of 1

kilometer and a terrain increment of 1 kilometer. As shown in Figure 2, the proposed STA facility complies with the FCC's post transition interference criteria with respect to all pertinent stations.

If there are questions concerning the technical portion of this application, please contact the office of the undersigned.

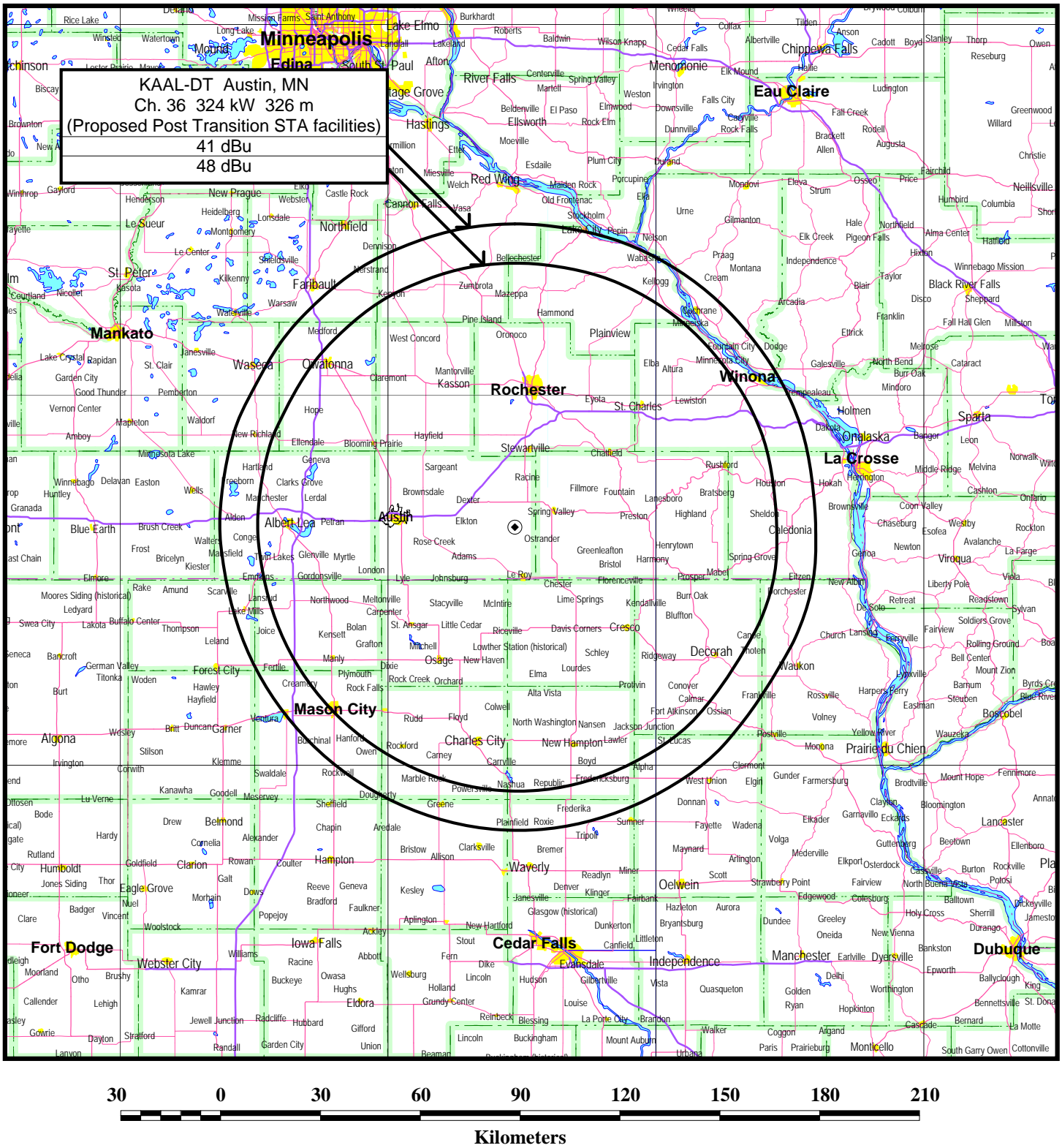


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Figure 1



FCC PREDICTED COVERAGE CONTOURS

DTV STATION KAAL-DT
AUSTIN, MN
CH 36 324 KW 326 M

du Treil, Lundin & Rackley, Inc. Sarasota, FL 34237

OET-69 POST-TRANSITION INTERFERENCE RESULTS

Channel	Callsign	Application Reference Number	Status	City	State	Interference	Baseline	Percentage
35	KRIN	BLEDT-20050218ABQ	LIC	WATERLOO	IA	77	867296	0.009
35	KRIN	DTVPLN-DTVP1289	PLN	WATERLOO	IA	77	867296	0.009
35	KSTP-TV	DTVPLN-DTVP1296	PLN	ST. PAUL	MN	None		
35	KSTP-TV	BPCDT-20080321ABD	CP	ST. PAUL	MN	None		
36	KWQC-TV	BPCDT-20080313AAV	CP	DAVENPORT	IA	14	997792	0.001
36	KWQC-TV	DTVPLN-DTVP1322	PLN	DAVENPORT	IA	132	997792	0.013
36	KWSD	BPCDT-20080321ACM	CP	SIOUX FALLS	SD	None		
36	KWSD	DTVPLN-DTVP1347	PLN	SIOUX FALLS	SD	None		
36	WLEF-TV	BMPEDT-20080611ABN	APP	PARK FALLS	WI	66	135845	0.049
36	WLEF-TV	DTVPLN-DTVP1354	PLN	PARK FALLS	WI	374	135845	0.275
36	WLEF-TV	BPEDT-20080211ACC	CP	PARK FALLS	WI	457	135845	0.336