

ENVIRONMENTAL STATEMENT
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
TELEVISION STATION KATN-DT
FAIRBANKS, ALASKA
CHANNEL 18 16 KW 230 M

With respect to the potential for human exposure to radio frequency (RF) radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF radiation at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground based on the following conservative assumptions, with the following results:

Call Sign	Channel	Average ERP (kW)	Antenna Height (m)	Relative Field Factor *	FCC Limit [†] (mW/cm ²)	Percentage of Limit
KATN-DT	18	16	56	0.20	0.331	2.2%

As indicated above, the exposure to RF radiation at 2-m above ground level will not exceed 2.2% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing.

The applicant, in coordination with any other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having

* See attached elevation pattern at Appendix 1.

† for general population/uncontrolled environments

Fairbanks, Alaska

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access to the tower or antenna from radio frequency radiation in excess of the FCC guidelines.



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Transmitting Antenna Manufacturer's Pattern Data

(one page follows)

ELEVATION PATTERN

Type:	AL8		Channel:	18
Directivity:	Numeric	dBd	Location:	
Main Lobe:	8.50	9.29	Beam Tilt:	-1.75
Horizontal:	7.01	8.46	Polarization:	Horizontal

