

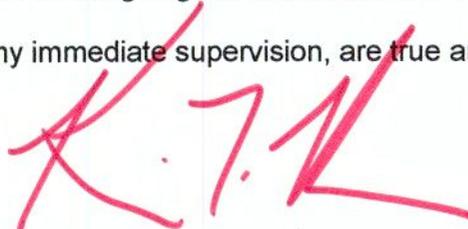
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, permittee of television translator K32GF, Channel 32 in Rhinelander, Wisconsin, in support of this application for modification of Construction Permit BNPTT-20000831BWH to specify a new site.

It is proposed to mount a standard Andrew omnidirectional antenna at the 110-meter level of an existing 77 meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the newly proposed 74 dBu contour encompasses a significant portion of that which obtains from the licensed K32GF facility. Operating parameters for the proposed facility are tabulated in Exhibit C. A contour overlap analysis and interference study are provided in Exhibit D, and a power density calculation follows as Exhibit E.

Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1034953 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.



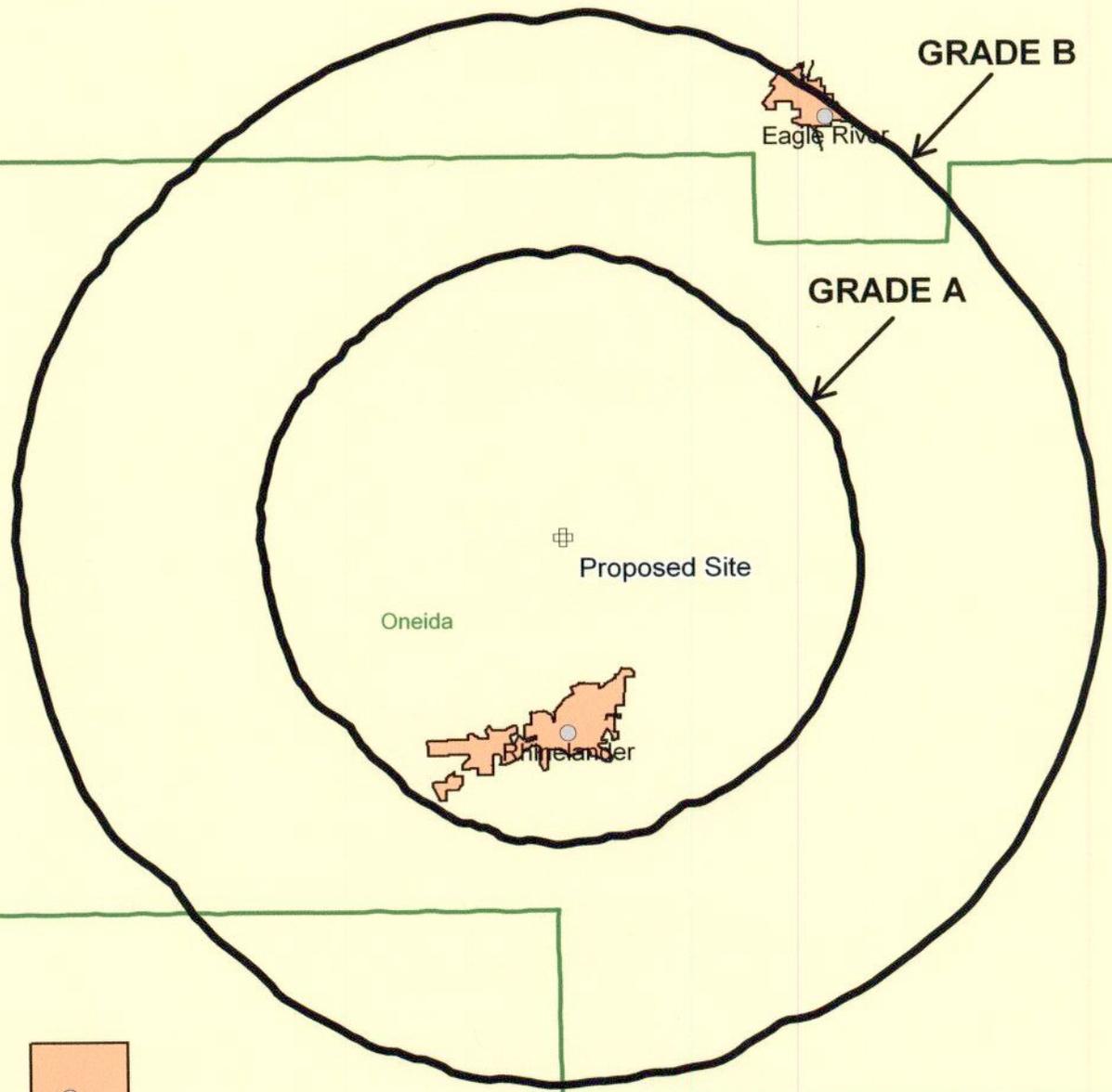
KEVIN T. FISHER

December 13, 2004

CONTOUR POPULATION
GRADE A (74 DBU) : 18,242
GRADE B (64 DBU) : 33,751

SMITH AND FISHER

Vilas



GRADE B
Eagle River

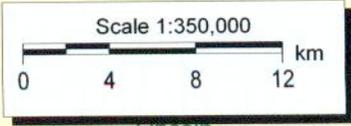
GRADE A

Proposed Site

Oneida

Oneida

Tomahawk



Lincoln

EXHIBIT B

PROPOSED OPERATING PARAMETERS

PROPOSED K32GF
CHANNEL 32 – RHINELANDER, WISCONSIN
[MODIFICATION OF BNPTT-20000831BWH]

Transmitter Power Output:	1.0 kw
Transmission Line Efficiency:	65.1%
Antenna Power Gain – Toward Horizon:	14.06
Antenna Power Gain – Main Lobe:	14.06
Effective Radiated Power – Toward Horizon:	9.2 kw
Effective Radiated Power – Main Lobe:	9.2 kw
Transmitter Make and Model:	Type-accepted
Rated Output	1.0 kw
Transmission Line Make and Model:	Andrew HJ7-50A
Size and Type:	1-5/8" air heliax
Length:	360 feet
Antenna Make and Model:	Andrew AL8
Orientation	Omnidirectional
Beam Tilt	1.75 degrees
Effective Height Above Ground:	108.7 meters
Effective Height Above Mean Sea Level:	599.4 meters

CONTOUR OVERLAP AND
LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED K32GF
CHANNEL 32 – RHINELANDER, WISCONSIN
[MODIFICATION OF BNPTT-20000831BWH]

We conducted a computer analysis of the interference situation for the proposed facility, the results of which are shown in Exhibit D-2. The study is based on contour protection requirements of Sections 74.705, 74.706, and 74.707 of the FCC's Rules with respect to analog full-power, digital full-power, and low power television stations, respectively. It concludes that the facility proposed herein meets these requirements to all stations.

SMITH AND FISHER

EXHIBIT D-2

PROPOSED K32GF
 CH. 32 - RHINELANDER WI

REFERENCE
 45 43 34 N
 89 24 51 W

LPTV Pwr = 9.2 kW, HAMS L COR= 599 M

DISPLAY DATES
 DATA 12-09-04
 SEARCH 12-10-04

..... Channel 32-, 578 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
WCCO-D*LI	32	Minneapolis	MN 300.88	257.1	> 297.06	3.82
W31BA* LI	31+	Minocqua	WI 35.01	301.4	> 026.35	8.66
W32DA* CP	32-	Houghton	MI 166.12	22.6	> 154.28	11.84
W32CV LI	32+	Ironwood	MI 99.61	323.3	> 087.52	12.09
WACY LI	32+	Appleton	WI 189.40	143.0	> 175.93	13.47
WBUW-D CPM	32	Janesville	WI 297.33	181.1	> 281.58	15.75
W31CI CPM	31-	Wausau	WI 83.89	190.2	> 031.70	52.19
AP644 AP	39-	Marshfield	WI 169.44	226.3	> 100.00	69.44

* Actual radials antenna height and directional patterns used (if any)

POWER DENSITY CALCULATION

PROPOSED K32GF
CHANNEL 32 – RHINELANDER, WISCONSIN
[MODIFICATION OF BNPTT-20000831BWH]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Rhinelander facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 9.2 kw, an effective antenna height of 109 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of 0.00013 mw/cm^2 is calculated to occur 96 meters from the base of the tower. Since this is significantly less than 0.1 percent of the 0.39 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 32 (578-584 MHz), this proposal may be excluded from consideration with respect to public exposure to nonionizing 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 nonionizing radiation.