

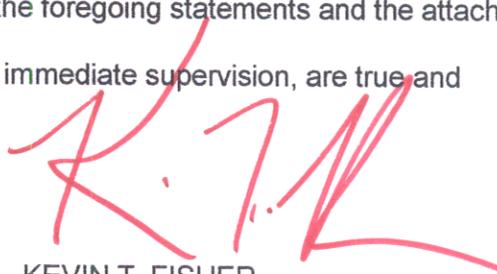
## ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of television translator W50BY, Channel 50 in Galesburg, Illinois, in support of this Application for Construction Permit to specify operation on Channel 51 from the licensed W50BY site. This proposal is being submitted in response to the Commission's assignment of Channel 49 to KLJB-DT in Davenport, Iowa, just 41 kilometers away, thereby placing this translator in a displacement situation.

It is proposed to mount a standard Andrew omnidirectional antenna at the authorized height on the side of an existing 147-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 W50BY 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 1010144 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.

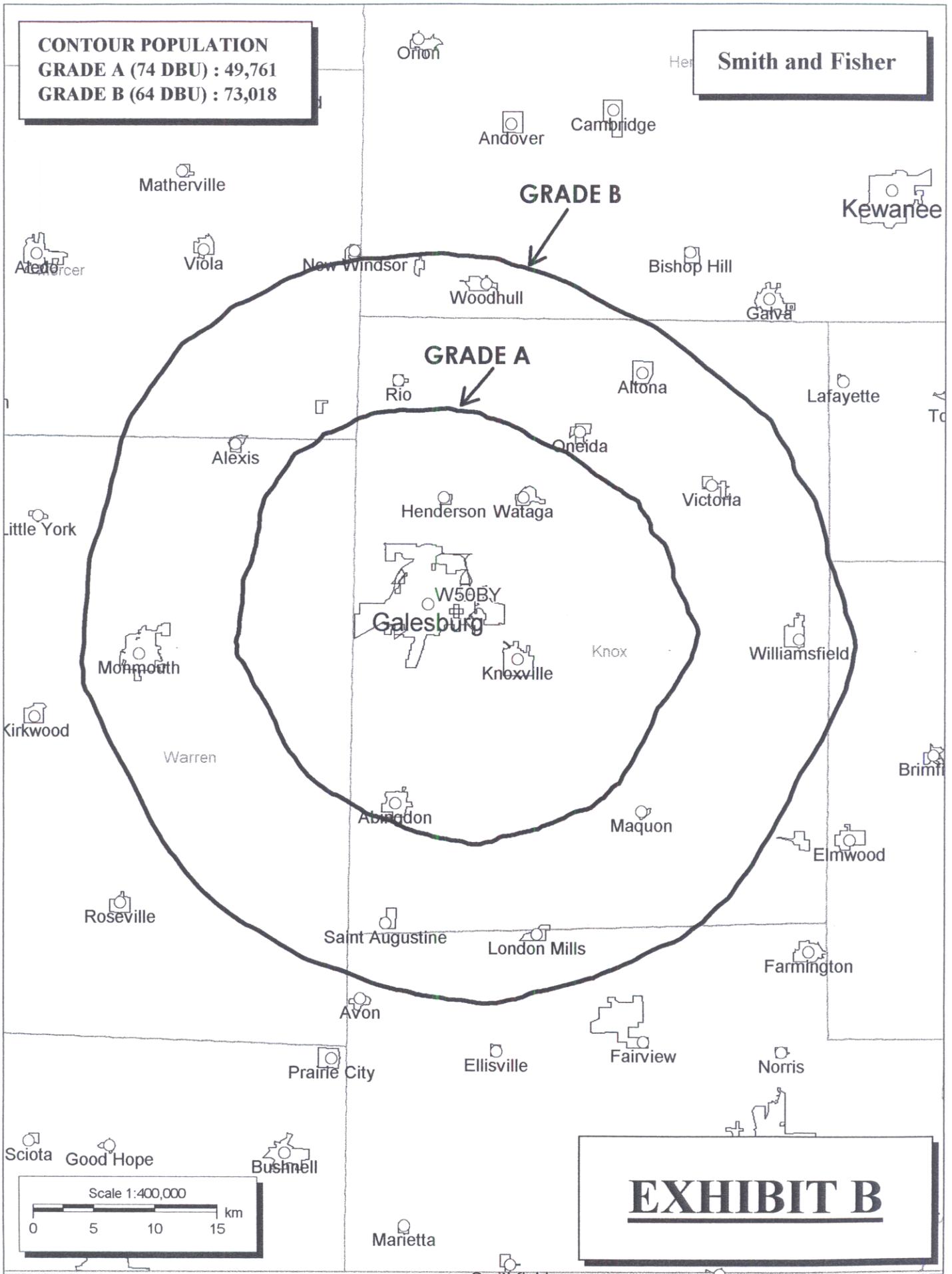


KEVIN T. FISHER

June 16, 2003

**CONTOUR POPULATION**  
**GRADE A (74 DBU) : 49,761**  
**GRADE B (64 DBU) : 73,018**

**Smith and Fisher**



## PROPOSED OPERATING PARAMETERS

PROPOSED W50BY  
CHANNEL 51 - GALESBURG, ILLINOIS

Transmitter Power Output:	1.0 kw
Transmission Line Efficiency:	63.1%
Antenna Power Gain – Toward Horizon:	28.2
Antenna Power Gain – Main Lobe:	28.2
Effective Radiated Power – Toward Horizon:	17.8 kw
Effective Radiated Power – Main Lobe:	17.8 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:	350 feet
Antenna Make and Model:	Andrew ALP16L2-HSOC
Orientation	Omnidirectional
Beam Tilt	0.5 degrees
Effective Height Above Ground:	98 meters
Effective Height Above Mean Sea Level:	334 meters