

**EXHIBIT #1**  
**ENGINEERING STATEMENT**

Concerning the Application of  
Idaho State Board Of Education  
To Make a Minor Change to the Construction Permit of FM Translator  
K266AV (CP)  
BNPFT-20030829AUM  
Hailey, ID

July 2007

Ch 213 D

0.01 kW H & V

This engineering statement supports the application filed by Idaho State Board Of Education to make minor changes to FM translator K266AV serving Hailey, Idaho.

The applicant proposes a minor change to change the station's frequency to an I.F. on channel 213, 90.5 MHz. The applicant further proposes to change the antenna height to 6 meters above ground (2639 M AMSL) and to correct the coordinates. Finally, the applicant proposes to use KBSW as the primary input station.

A coverage map of the 60 dBu contours of this translator and its primary station is shown on page #2 of this exhibit. The N.G.D.C. 30 sec terrain database was used for this and all other exhibits. Page #3 is a table of the distance to the 60 dBu F(50-50) contour along the 12 cardinal radials.

**Exhibit #12** is a single channel, contour-to-contour, allocation study showing that interference is not caused to any FM radio station, translator, construction permit or application. The exhibit also refers to the protection provided a 3<sup>rd</sup> adjacent channel.

There are no pertinent I.F. relationships. The proposal is not within 320 kilometers of the U.S. border with Canada or Mexico, and is outside the protected zone of any AM station, Table Mountain, FCC monitoring stations and the West Virginia Quiet Zone.

The proposed facility will protect KIVI, Nampa, Idaho, channel-six TV. The cutoff for translators on channel 213 is 135 km (134.5 when rounded) and the proposed translator is located outside this distance at 137.7 km.

**Exhibit #16** shows compliance with the Commission's R.F. emission's standards.

Page #4 of this engineering statement is a declaration made by the preparer attesting to his qualifications.

## 60 dBu Service Contours

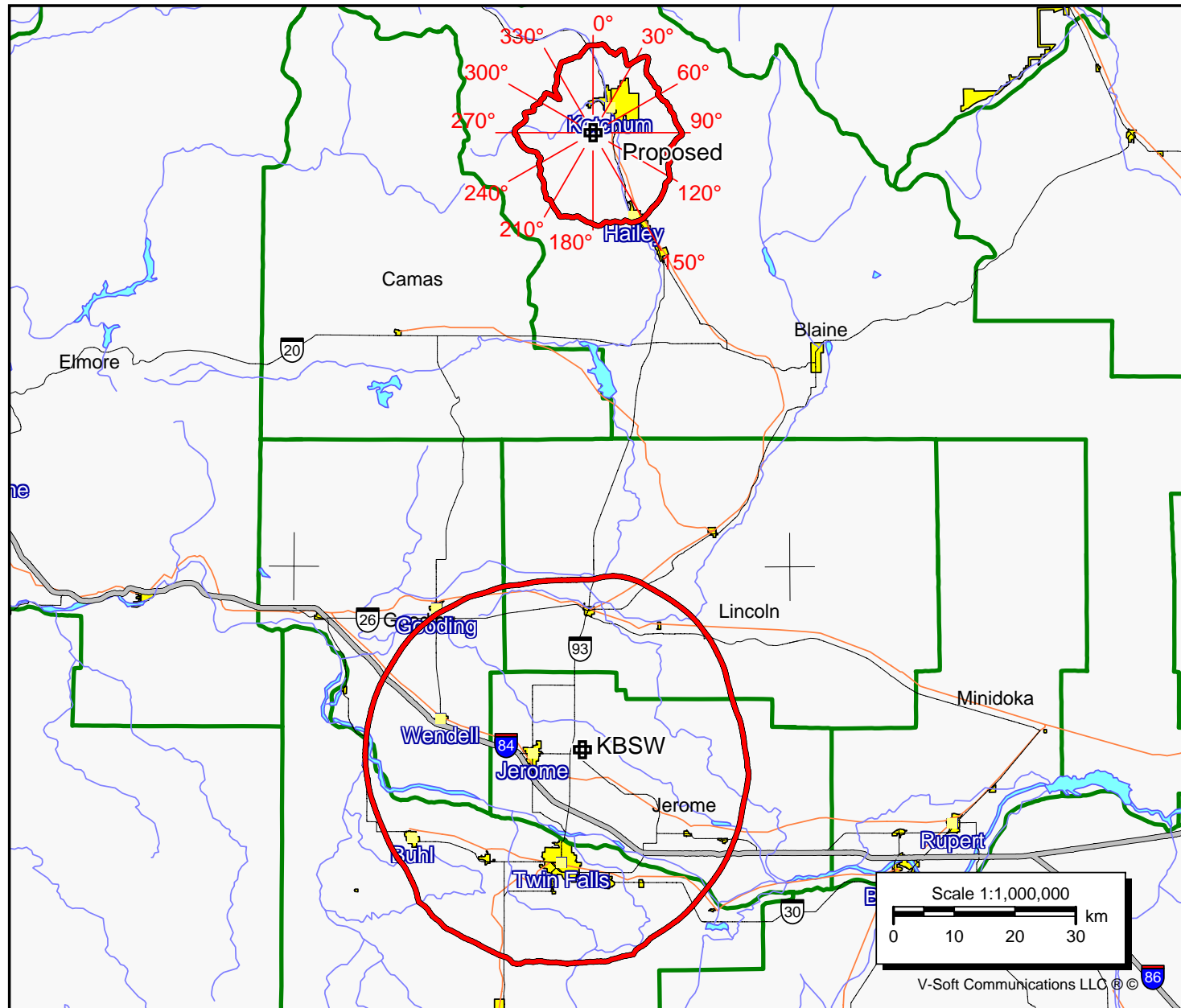
### Proposed Translator

Latitude: 43-38-36 N  
 Longitude: 114-23-49 W  
 ERP: 0.01 kW  
 Channel: 213  
 Frequency: 90.5 MHz  
 AMSL Height: 2639.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

### KBSW Primary

BLED19980820KB  
 Latitude: 42-43-48 N  
 Longitude: 114-25-06 W  
 ERP: 4.50 kW  
 Channel: 219  
 Frequency: 91.7 MHz  
 AMSL Height: 1320.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No

**V** Doug Vernier  
 721 West 1st Street, Suite A  
 Cedar Falls, Iowa 50613  
 Telecommunications Consultants



Doug Vernier, Telecommunications Consultants  
 N. Lat. = 433836.0 W. Lng. = 1142349.0  
 HAAT and Distance to Contour - FCC Method - NGDC 30 SEC

Idaho State Board of Education

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	1981.7	657.3	0.0100	-20.00	1.000	14.35
030	2059.1	579.9	0.0100	-20.00	1.000	13.45
060	2154.0	485.0	0.0100	-20.00	1.000	12.45
090	1956.2	682.8	0.0100	-20.00	1.000	14.62
120	1964.2	674.8	0.0100	-20.00	1.000	14.54
150	1732.7	906.3	0.0100	-20.00	1.000	16.33
180	1914.5	724.5	0.0100	-20.00	1.000	15.02
210	2052.6	586.4	0.0100	-20.00	1.000	13.53
240	2328.4	310.6	0.0100	-20.00	1.000	10.29
270	2116.0	523.0	0.0100	-20.00	1.000	12.77
300	2347.9	291.1	0.0100	-20.00	1.000	9.98
330	2250.4	388.6	0.0100	-20.00	1.000	11.42

Ave El= 2071.47 M HAAT= 567.53 M AMSL= 2639

**Declaration:**

I, Douglas L. Vernier, declare that I have received training as an engineer from the University of Michigan School of Engineering. That, I have received degrees from the University in the field of Broadcast Telecommunications. That, I have been active in broadcast consulting for over 30 years;

That, I have held a Federal Communications Commission First Class Radiotelephone License continually since 1964. In 1985, this license was reissued by the Commission as a lifetime General Radiotelephone license no. PG-16-16464;

That, I am certified as a Professional Broadcast Engineer (#50258) by the Society of Broadcast Engineers, Indianapolis, Indiana. (Re-certified 1/2006.)

That, my qualifications are a matter of record with the Federal Communications Commission;

That, I have been retained by the Idaho State Board Of Education to prepare the engineering showings appended hereto:

That, I have prepared these broadcast engineering showings, the technical information contained in same and the facts stated within are true of my knowledge;

That, under penalty of perjury, I declare that the foregoing is correct.

A handwritten signature in blue ink, appearing to read "Doug Vernier", with a large, stylized initial "D" and a horizontal line extending from the end of the signature.

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Douglas L. Vernier

Executed on July 6, 2007