#160559 20120814 ABP

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2012 OCT -9 A 6:52

October 4, 2012

FILED/ACCEPTED

OCT - 4 2012

Federal Communications Commission
Office of the Secretary

Mr. Marlene Dortch
Secretary
Federal Communications Commission
445 12th St., S.W.
Washington, DC 20554

Re: Station WBKK(AM)
Facility No. 160559
File No. BMML-20120814ABP
Wilton, MN

Dear Ms. Dortch:

Bemidji Radio, Inc., by its attorney, hereby submits an amendment to the above-referenced application for license to cover and for Program Test Authority.

If there are any questions, please contact this office.

0018272773

Very truly yours,

Dan J. Alpert

Counsel for Bemidji Radio, Inc.

PHASETEK INC.

ENGINEERING AMENDMENT
WBKK, 820 KHZ, DA-2
WILTON, MINNESOTA
SEPTEMBER, 2012

This Amendment is in response to the Commission's letter dated September 5, 2012, concerning the License Application for Radio Station WBKK, Wilton, Minnesota.

1. Concerning the manufacturer's rated accuracy of the Toroidal Current Transformers, the Transformers are Phasetek, Inc. Model # P600-203, 1.0 V/A, rated accuracy of ±1.5% and ±2.0°. Specification sheet attached. The submitted measurements (below) are within this accuracy.

Tower	TCT Serial #	Magnitude	Phase
1	451	.995	0.2°
2	452	1.000	0.0°
3	453	.997	0.1°

2. Concerning the manufacturer's rated accuracy of the Antenna Monitor, the Gorman-Redlich model CMR has a rated maximum accuracy of ±2.0% and ±1.0° (FCC required). The submitted measurements (below) are within this accuracy.

Tower	Ratio	Phase
1	.994	0.0°
2	1.000	0.0°
3	.991	+0.1°

Kurt Gorman
Phasetek, Inc.

PHASETEK INC.
TOROIDAL CURRENT TRANSFORMER
INSTRUCTION SHEET

DESCRIPTION:

Phasetek Inc.'s Toroidal Current Transformers are designed to provide an RF sample voltage proportional to the RF current flowing in a Conductor placed through the Toroidal Bushing. This sample voltage may be used for Antenna current monitoring or for remote current indication. Output sensitivities ranging from .25 V/A to 1.5 V/A are available (with 50 ohm termination).

INSTALLATION:

The Toroidal Current Transformer is contained in a sealed aluminum enclosure. Two, 1/4-20 mounting holes are provided on the bottom to mount and ground the unit. After the unit is securely mounted, the current carrying Conductor should be placed through the Teflon bushing and all connections tightened. For Antenna monitoring in Directional Arrays, all arrows on top of the units should be in the same direction (typically the direction of current flow). A type "N" female connector is provided to connect a 50 ohm coaxial Sampling Line.

MAINTENANCE:

Periodically, the unit should be inspected for signs of arcing, cleaned to remove any debris, and the connector connection cleaned and checked for tightness.

SPECIFICATIONS – ELECTRICAL

Operating Frequency Range:	0.5 to 2 MHz
Operating Temperature Range:	-10° C to +80° C
Load Termination:	50 Ohms
Output Magnitude Accuracy:	± 1.5%
Output Phase Accuracy:	± 2.0°
Magnitude Tracking Accuracy:	± 1.0%
Phase Tracking Accuracy:	± 1.0°
Maximum Operating Voltage:	11.5 kV @ 25° C

SPECIFICATIONS – MECHANICAL

Overall Size:	5" Wide x 2-3/8" Deep x 6" High
Output Connector:	Type "N" Female
Mounting:	(2) 1/4-20 Tapped Mounting Hole

STANDARD UNITS

Part Number	Sensitivity and Current Range
P600-201	0.25 V/A, 0-80 Amp
P600-202	0.50 V/A, 0-40 Amp
P600-203	1.00 V/A, 0-20 Amp
P600-204	1.50 V/A, 0-13 Amp

NORTHERN ENGINEERING & CONSULTING, INC.
207 Fourth St. N.W. • Bemidji, MN 56601
218-444-4860 • Fax 218-444-6042
info@necimn.com • www.necusa.com

August 2, 2012

To whom it may concern:

In the fall of 2010, Ed De La Hunt hired our firm to locate the #1 base at the Wilton site and to stake base #2 and base #3. On Nov. 11, 2010, we staked base #2 at North 20 degrees East (True) at 268.2 feet from #1 and staked base #3 at North 20 degrees East(True) at 567.8 feet from #1.

In July of 2012, he hired us to verify their location. On July 13, 2012, we located the bases again and found them to well within the 1.5 electrical degree tolerance.

Below please find the latitude and longitude of Base #2 and Base #3, first as was staked and second as were located on July 13.

Base #2	Staked	47 degrees 23'29.45007"	95 degrees 04'40.79060"
	Located	47 degrees 23'29.44936"	95 degrees 04'40.78283"
Base #3	Staked	47 degrees 23'32.22836"	95 degrees 04'39.30033"
	Located	47 degrees 23'32.22807"	95 degrees 04'39.29864"

Sincerely,

NORTHERN ENGINEERING & CONSULTING,INC.

Terry L. Freeman

Professional Land Surveyor, MN License #21367