

Federal Communications Commission Washington, D.C. 20554 FCC 302-FM	Approved by OMB 3060-0506 (June 2002) FOR FCC USE ONLY
APPLICATION FOR FM BROADCAST STATION LICENSE Read INSTRUCTIONS Before Filling Out Form	FOR COMMISSION USE ONLY FILE NO. -

Section I - General Information

1.	Legal Name of the Applicant KIDS FIRST INCORPORATED		
	Mailing Address 6218 KINGSLEY DRIVE		
	City INDIANAPOLIS	State or Country (if foreign address) IN	ZIP Code 46220 -
	Telephone Number (include area code) 3172513851	E-Mail Address (if available)	
	FCC Registration Number:	Call Sign WITT	Facility Identifier 91740
2.	Contact Representative (if other than Applicant) CARY S. TEPPER, ESQ.		Firm or Company Name BOOTH, FRERET, IMLAY & TEPPER, PC
	Telephone Number (include area code) 3017181818	E-Mail Address (if available) TEPPERLAW@AOL.COM	
3.	If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input type="radio"/> Governmental Entity <input checked="" type="radio"/> Noncommercial Educational Licensee/Permittee <input type="radio"/> Other <input type="radio"/> N/A (Fee Required)		
4.	Facility Information:		
	a. <input type="radio"/> Commercial	<input checked="" type="radio"/> Noncommercial	
	b. <input checked="" type="radio"/> Directional	<input type="radio"/> Nondirectional	
	c. Community of License:		
	City: ZIONSVILLE	State: IN	
5.	Program Test Authority:		
	<input checked="" type="radio"/> Requesting program test authority.		
	<input type="radio"/> Station operating pursuant to automatic program test authority (47 C.F.R. Section 73.1620(a)(1)).		
6.	Purpose of Application:		
	<input checked="" type="radio"/> Cover construction permit (list most recent construction permit file number -- starts with the prefix BPH, BNPH, BMPH, BPED, BMPED, or BMPED):	BMPED-20070730AGG	
	<input type="radio"/> Modify an authorized license (list license file number -- starts with the prefix BLH, BMLH, BLED, or BMLED):	-	
	<input type="radio"/> Amend a pending application If an amendment, submit as an Exhibit a listing by Section and Question Number the portions of the pending application that are being revised.	[Exhibit 1]	

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

Section II - Legal and Financial

1.	Certification. Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	Licensee/Permittee certifies that all terms, conditions, and obligations set forth in the underlying construction permit have been fully met.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 2]
3.	Licensee/Permittee certifies that, apart from changes already reported, no cause or circumstance has arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 3]
4.	Character Issues. Applicant certifies that neither licensee/permittee nor any party to the application has or has had any interest in, or connection with: a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or b. any pending broadcast application in which character issues have been raised.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 4]
5.	Adverse Findings. Applicant certifies that, with respect to the applicant and any party to the application, no adverse finding has been made, nor has an adverse final action been taken related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 5]
6.	Anti-Drug Abuse Act Certification. Applicant certifies that neither licensee/permittee nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing JAMES E. WALSH	Typed or Printed Title of Person Signing PRESIDENT
Signature	Date 6/2/2009

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JEFFERSON G. BROCK	Relationship to Applicant (e.g., Consulting Engineer) TECHNICAL CONSULTANT	
Signature	Date 5/29/2009	
Mailing Address GRAHAM BROCK, INC. P. O. BOX 24466		
City ST. SIMONS ISLAND	State or Country (if foreign address) GA	Zip Code 31522 - 7466
Telephone Number (include area code) 9126388028	E-Mail Address (if available) JEFF@GRAHAMBROCK.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001),

AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Section III - Engineering			
TECHNICAL SPECIFICATIONS			
Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.			
TECH BOX			
1.	Channel: 220		
2.	a. Effective Radiated Power:	6 kW(H) 6 kW(V)	
	b. Maximum Effective Radiated Power:	kW(H) kW(V)	
	(Beam-Tilt Antenna ONLY) <input checked="" type="checkbox"/> Not Applicable		
3.	Transmitter Power Output: 2.68 kW		
4.	Antenna Data		
	Manufacturer	Model	Number of Sections
	SHI	6810-4R-SS-DA	4
			Spacing Between Sections (wavelength)
			0.5
NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.			
CERTIFICATION			
All applicants must complete this section.			
5.	Main Studio Location. The main studio location complies with 47 C.F.R. Section 73.1125.	<input checked="" type="radio"/> Yes <input type="radio"/> No	
		See Explanation in [Exhibit 6]	
6.	Transmitter Power Output. The operating transmitter power output produces the authorized effective radiated power.	<input checked="" type="radio"/> Yes <input type="radio"/> No	
		See Explanation in [Exhibit 7]	
APPLICATIONS FILED TO COVER A CONSTRUCTION PERMIT.			
Only applicants filing this application to cover a construction permit must complete the following section.			
NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.			
7.	Constructed Facility . The facility was constructed as authorized in the underlying construction permit or complies with 47 C.F.R. Section 73.1690.	<input checked="" type="radio"/> Yes <input type="radio"/> No	
		See Explanation in [Exhibit 8]	
8.	Special Operating Conditions. The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit.	<input checked="" type="radio"/> Yes <input type="radio"/> No	
		See Explanation in [Exhibit 9]	
	An exhibit may be required. Review the underlying construction permit.	[Exhibit 10]	
APPLICATIONS FILED PURSUANT TO 47 C.F.R. SECTIONS 73.1675(c) or 73.1690(c).			
Only applicants filing this application pursuant to 47 C.F.R. Sections 73.1675(c) or 73.1690(c) must complete the following section.			
9.	Changing transmitter power output. Is this application being filed to authorize a change in		

	transmitter power output caused by the replacement of omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10).	<input type="radio"/> Yes <input checked="" type="radio"/> No
10.	Increasing effective radiated power. Is this application being filed to authorize an increase in ERP for a station operating in the nonreserved band (Channels 221-300)? See 47 C.F.R. Sections 73.1690(c)(4), (c)(5) and (c)(7). If "Yes" to the above, the applicant certifies the following:	<input type="radio"/> Yes <input checked="" type="radio"/> No
	a. Spacing Requirements. The increase in ERP was authorized pursuant to MM Docket 88-375 (Class A stations) OR the facility complies with the spacing requirements of 47 C.F.R. Section 73.207.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 11]
	b. International Coordination. The transmitter site is greater than 320 km from the Canadian or Mexican borders OR coordination for the station's international class is complete.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 12]
	c. Interference. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied OR are not applicable.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 13]
	Exhibit required. If the proposed facility must be notified to the entities set forth in 47 C.F.R. Section 73.1030, the applicant must provide a copy of the written approval for the ERP increase from the affected entity.	[Exhibit 14]
	d. Multiple Ownership Showing. The increase in ERP will not require the consideration of a multiple ownership showing pursuant to 47 C.F.R. Section 73.3555.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 15]
	e. Environmental Protection Act. The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an Exhibit is required.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 16]
	By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.	
11.	Increasing vertically polarized effective radiated power. Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(4) to authorize an increase in the vertically polarized ERP for a station operating in the reserved band (Channels 200-220)? If "Yes" to the above, the applicant certifies the following:	<input type="radio"/> Yes <input checked="" type="radio"/> No
	a. TV Channel 6 Protection Requirements. The facility complies with the spacing requirements of 47 C.F.R. Section 73.525(a)(1).	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 17]
	b. Environmental Protection Act. The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an Exhibit is required.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 18]

	By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.	
12.	Decreasing effective radiated power (non-reserved channel). Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(8) to authorize a decrease in the ERP for a station operating in the nonreserved band (Channels 221-300)?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If "Yes" to the above, the applicant certifies the following:	
	a. Community Coverage. The proposed facility complies with the community coverage requirements of 47 C.F.R. Section 73.315 where the distance to the 3.16 mV/m contour is predicted using the standard prediction method in 47 C.F.R. Section 73.313.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 19]
	b. Auxiliary Facilities. The authorized or pending auxiliary facilities for this station comply with 47 C.F.R. Section 73.1675(a).	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 20]
	c. Multiple Ownership Showing. The decrease in ERP is not requested or required to establish compliance with 47 C.F.R. Section 73.3555.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 21]
13.	Decreasing effective radiated power (reserved channel). Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(8) to authorize a decrease in the ERP for a station operating in the reserved band (Channels 200-220)?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If "Yes" to the above, the applicant certifies the following:	
	a. Community Coverage. The proposed facility complies with the community coverage requirements of 47 C.F.R. Section 73.1690(c)(8)(i) where the distance to the 1 mV/m contour is predicted using the standard prediction method in 47 C.F.R. Section 73.313.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 22]
	b. Auxiliary Facilities. The authorized or pending auxiliary facilities for this station comply with 47 C.F.R. Section 73.1675(a).	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 23]
14.	Replacing a directional antenna. Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(2) to replace a directional antenna with another directional antenna?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If "Yes" to the above, the applicant certifies the following:	
	a. Measurement of Directional Antenna. The composite measured pattern and measurement procedures comply with 47 C.F.R. Section 73.1690(c)(2). Exhibit required.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 24] [Exhibit 25]
	b. Installation of Directional Antenna. The installation of the directional antenna complies with 47 C.F.R. Section 73.1690(c)(2). Exhibit required.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 26] [Exhibit 27]
15.	Deleting contour protection status. Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(6) to delete contour protection status (47 C.F.R. Section 73.215) for a station operating in the nonreserved band (Channels 221-300)?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If "Yes" to the above, the applicant certifies that the facility complies with the spacing	<input type="radio"/> Yes <input type="radio"/> No

	requirements of 47 C.F.R. Section 73.207.	See Explanation in [Exhibit 28]
16.	<p>Use a formerly licensed main facility as an auxiliary facility. Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility?</p> <p>If "Yes" to the above, the applicant certifies the following:</p> <p>a. Auxiliary antenna service area. The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a).</p> <p>b. Environmental Protection Act. The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1 306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an Exhibit is required.</p> <p>By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>See Explanation in [Exhibit 29]</p> <p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>See Explanation in [Exhibit 30]</p>
17.	<p>Change the license status. Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(9) to change the license status from commercial to noncommercial or from noncommercial to commercial?</p> <p>If "Yes" to the above, submit an exhibit providing full particulars. For applications changing license status from commercial to noncommercial, include Section II of FCC Form 340 as an exhibit to this application.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>[Exhibit 31]</p>
<p>PREPARERS CERIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.</p>		

Exhibits

Exhibit 7

Description: TRANSMITTER POWER OUTPUT

SEE ATTACHED EXHIBIT A

Attachment 7

Description
Exhibit A

Exhibit 9

Description: SPECIAL OPERATING CONDITIONS

SEE ATTACHED TECHNICAL STATEMENT, EXHIBIT B, EXHIBIT C, & EXHIBIT D

Attachment 9

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Description
Technical Statement
Exhibit B
Exhibit C
Exhibit D

APPLICATION FOR STATION LICENSE
KIDS FIRST INCORPORATED
WITT (FM) RADIO STATION
CH 220A - 91.9 MHZ - 6.0 KW (DA)
ZIONSVILLE, INDIANA
May 2009

EXHIBIT A

WITT Transmission System Calculations

Effective Radiated Power:	6.0 kilowatts (H/V)
Antenna:	Shively Labs 6810-4R-SS-DA 4 bay half wavelength spaced
Power gain:	2.526
Transmission Line: (266 feet)	Andrew HJ7-50A 1 5/8 inch air dielectric 88.6% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	2.68 kilowatts

Facilities Authorized:	Channel 220A - 91.9 MHz
Effective Radiated Power:	6.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 40° 00' 14" West Longitude 86° 28' 14"
Antenna Center of Radiation:	Above Ground 85.0 meters Above MSL 376.0 meters HAAT 91.0 meters
Antenna Structure Registration #:	1203175

APPLICATION FOR STATION LICENSE
KIDS FIRST INCORPORATED
WITT (FM) RADIO STATION
CH 220A - 91.9 MHZ - 6.0 KW (DA)
ZIONSVILLE, INDIANA
May 2009

TECHNICAL STATEMENT

This Technical Statement was prepared on behalf of Kids First Incorporated ("KFI"), permittee of radio station WITT, Channel 220A, Zionsville, Indiana. KFI has an outstanding permit to construct WITT (BMPED-20070730AGG). KFI herein submits a license application to cover the outstanding permit. As the permitted WITT utilizes a directional antenna system, it is requested that the Commission review this submission and authorize full power operation for WITT. Upon submission of this instant application, operation under limited program test will commence at 50% of authorized power. A calculation of the transmitter power output of the WITT transmitter is attached as Exhibit A.

There are five operating conditions/restrictions on the WITT permit. The first four conditions relate to the use of a directional antenna system for WITT. Attached as Exhibit B is an antenna proof of performance from Shively Labs, the manufacturer of the WITT antenna system, demonstrating compliance of the antenna system with the requirements and limits contained in the permit. The measured pattern is within 85% of the envelope pattern submitted with the construction permit application. Exhibit C is a statement from an engineer that the antenna was assembled and installed in accordance with Shively's specifications. Finally,

attached as Exhibit D is a verification from a Land Surveyor that the antenna is oriented as specified by Shively.¹

Further, as detailed in Exhibit B and noted in the permit, the power of WITT at 170°, 320° and 330° is below the required limit of 6.0 kilowatts. The relative field at 170° is 0.947 (horizontal), a power level of 5.381 kilowatts; the relative field at 170° is 0.930 (vertical), a power level of 5.189 kilowatts. The relative field at 320° is 0.248 (horizontal), a power level of 0.369 kilowatt; the relative field at 320° is 0.140 (vertical), a power level of 0.118 kilowatt. The relative field at 330° is 0.227 (horizontal), a power level of 0.309 kilowatt; the relative field at 330° is 0.160 (vertical), a power level of 0.154 kilowatt. Therefore, the antenna system complies with the conditions relative to the use of the directional antenna system.

The last condition states that KFI will reduce the power of WITT, or cease operation in coordination with other users of the tower, to protect persons having access to the site from radio frequency electromagnetic fields in excess of FCC guidelines. KFI will comply with this condition.

Based on the foregoing, it is believed that WITT is operating in compliance with the Commission's rules and that all conditions have been met. Therefore, KFL requests program test at full authorized power for WITT.

1) 118° true orientation, as indicated on the installation drawing included in the Shively proof.

S.O. 27450

Report of Test 6810-4R-SS-DA

for

KIDS FIRST INCORPORATED

WITT 91.9 MHz Zionsville, IN

OBJECTIVE:

The objective of this test was to demonstrate the directional characteristics of a 6810-4R-SS-DA to meet the needs of WITT and to comply with the requirements of the FCC construction permit, file number BMPED-20070730AGG.

RESULTS:

The following Figures are the results of the measurements from our pattern range:

Figure 1A- Measured Azimuth Pattern with the FCC Composite

Figure 1B- Measured Composite Azimuth Pattern with the FCC Composite

Figure 1C- Tabulation of the Horizontal Polarization for the Measured Azimuth Pattern

Figure 1D - Tabulation of the Vertical Polarization for the Measured Azimuth Pattern

Figure 1E - Tabulation of the Measured Composite Azimuth Pattern

Figure 1F - Tabulation of the FCC Composite

The calculated elevation pattern of the antenna is shown in Figure 3.

Construction permit file number BMPED-20070730AGG indicates that the Horizontal radiation component shall not exceed 6.0 kW at any azimuth and is restricted to the following values at the azimuths specified:

170 Degrees T: 5.415 kW

320 Degrees T: 0.375 kW

330 Degrees T: 0.406 kW

EXHIBIT #B
APPL FOR STATION LICENSE
KIDS FIRST INCORPORATED
WITT (FM) RADIO STATION
CH 220A - 6.0 KW DA
ZIONSVILLE, INDIANA
May 2009

From Figure 1A, the maximum radiation of the Horizontal component occurs at 103 Degrees T to 152 Degrees T. At the restricted azimuth of 170 Degrees T the Horizontal component is 0.473 dB down from the maximum of 6.0 kW, or 5.381 kW. At the restricted azimuth of 320 Degrees T the Horizontal component is 12.111 dB down from the maximum of 6.0 kW, or 0.369 kW. At the restricted azimuth of 330 Degrees T the Horizontal component is 12.879 dB down from the maximum of 6.0 kW, or 0.309 kW.

The R.M.S. of the Horizontal component is 0.741. The total Horizontal power gain is 2.526. The R.M.S. of the Vertical component is 0.700. The total Vertical power gain is 2.520. See Figure 4 for calculations. The R.M.S. of the FCC composite pattern is 0.858. The R.M.S. of the measured composite pattern is 0.741. Eighty-five percent (85%) of the original authorized FCC composite pattern is 0.729. Therefore this pattern complies with the FCC requirement of 73.316(c)(2)(ix)(A).

METHOD OF DIRECTIONALIZATION:

One bay of the 6810-4R-SS-DA was mounted on a tower of precise scale to the 41 inch face tower at the WITT site. The spacing of the antenna to the tower was varied to achieve the vertical pattern shown in Figure 1A. A horizontal parasitic element was placed directly under the bay. The position of this horizontal parasitic element was changed until the horizontal pattern shown in Figure 1A was achieved. See Figure 2 for mechanical details.

METHOD OF MEASUREMENT:

As allowed by the construction permit, file number BMPED-20070730AGG, a single level of the 6810-4R-SS-DA was set up on the Howell Laboratories scale model antenna pattern measuring range. A scale of 4.5:1 was used.

SUPERVISION:

Mr. Surette was graduated from Lowell Technological Institute, Lowell, Massachusetts in 1973 with the degree of Bachelor of Science in Electrical Engineering. He has been directly involved with design and development of broadcast antennas, filter systems and RF transmission components since 1974, as an RF Engineer for six years with the original Shively Labs in Raymond, ME and for a short period of time with Dielectric Communications. He is currently an Associate Member of the AFCCE and a Senior

Member of IEEE. He has authored a chapter on filters and combining systems for the latest edition of the CRC Electronics Handbook and for the 9th and 10th Editions of the NAB Handbook.

EQUIPMENT:

The scale model pattern range consists of a wooden rotating pedestal equipped with a position indicator. The scale model bay is placed on the top of this pedestal and is used in the transmission mode at approximately 20 feet above ground level. The receiving corner reflector is spaced 50 feet away from the rotating pedestal at the same level above ground as the transmitting model. The transmitting and receiving signals are carried to a control building by means of RG-9/U double shielded coax cable.

The control building is equipped with:

Hewlett Packard Model 8753 Network Analyzer

PC Based Controller

Hewlett Packard 7550A Graphics Plotter

The test equipment is calibrated to ANSI/NCSL Z540-1-1994.

TEST PROCEDURES:

The corner reflector is mounted so that the horizontal and vertical azimuth patterns are measured independently by rotating the corner reflector by 90 degrees. The network analyzer was set to 413.55 MHz. Calibrated pads are used to check the linearity of the measuring system. For example, 6 dB padding yields a scale reading of 50 from an unpadded reading of 100 in voltage. From the recorded patterns, the R.M.S. values are calculated and recorded as shown in Figure 1A.

Respectfully submitted by:

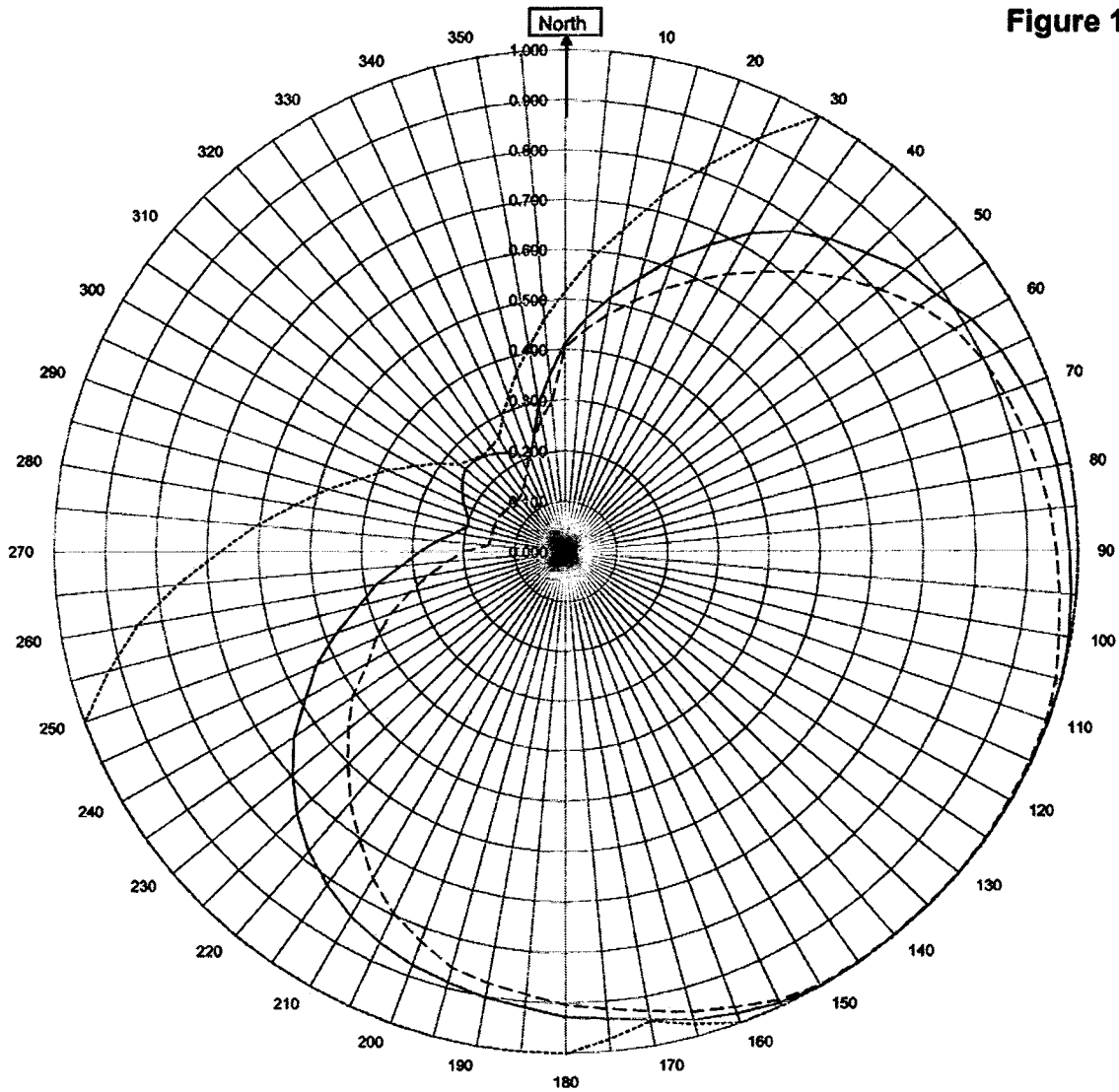


Robert A. Surette
Director of Sales Engineering
S/O 27450
April 29, 2009

Shively Labs

Shively Labs, a division of Howell Laboratories, Inc. Bridgton, ME (207)647-3327

Figure 1a



WITT Zionsville, IN

27450

April 29, 2009

Horizontal RMS	0.741
Vertical RMS	0.700
H/V Composite RMS	0.741
FCC Composite RMS	0.858

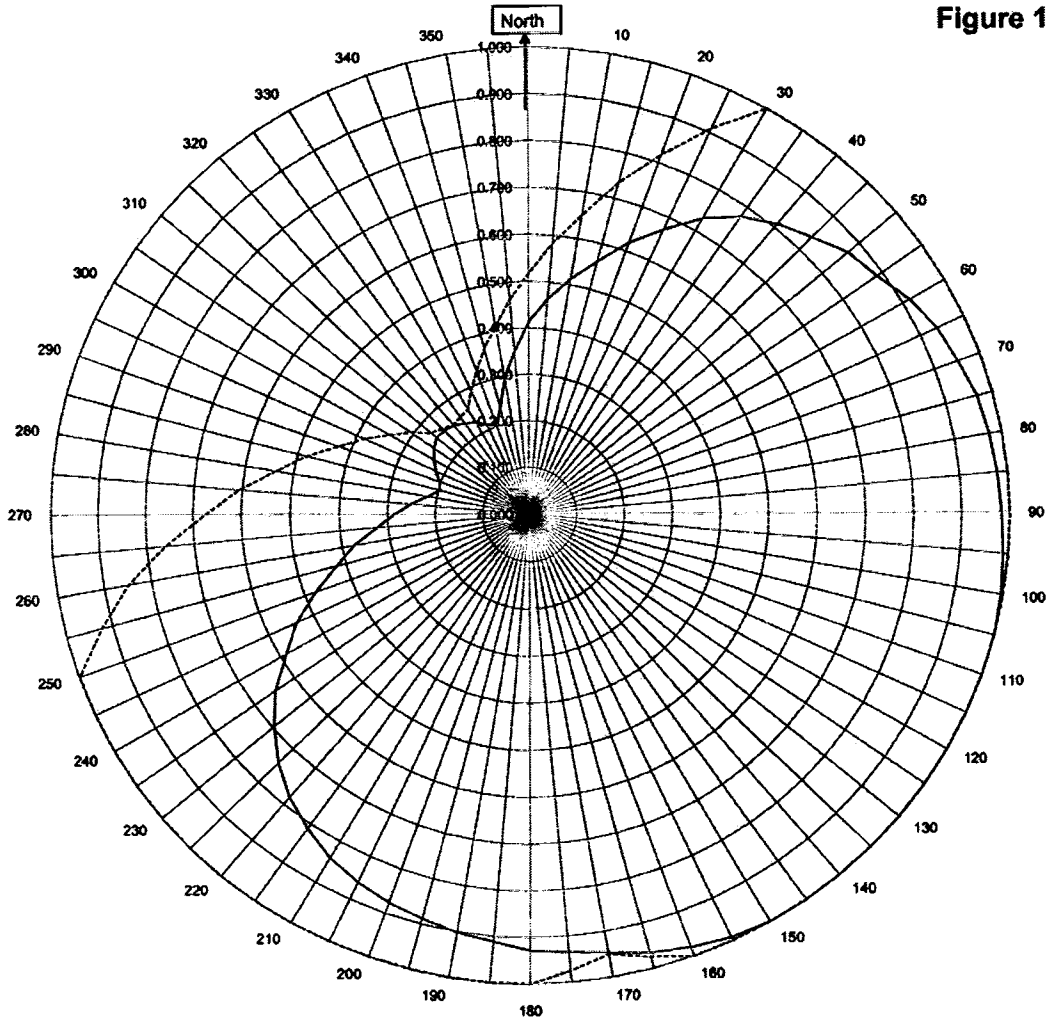
Frequency	91.9 / 413.55 MHz
Plot	Relative Field
Scale	4.5 : 1
See Figure 2 for Mechanical Details	

Antenna Model	6810-4R-SS-DA
Pattern Type	Directional Azimuth

Shively Labs

Shively Labs, a division of Howell Laboratories, Inc. Bridgton, ME (207)847-3327

Figure 1b



WITT Zionsville, IN

27450

April 29, 2009

.....H/V Composite RMS	0.741
.....FCC Composite RMS	0.858

Frequency	91.9 / 413.55 MHz
Plot	Relative Field
Scale	4.5 : 1
See Figure 2 for Mechanical Details	

Antenna Model	6810-4R-SS-DA
Pattern Type	Directional H/V Composite

Figure 1c

Tabulation of Horizontal Azimuth Pattern
WITT Zionsville, IN

Azimuth	Rel Field	Azimuth	Rel Field
0	0.413	180	0.928
10	0.512	190	0.902
20	0.619	200	0.877
30	0.730	210	0.841
40	0.809	220	0.782
45	0.836	225	0.743
50	0.869	230	0.697
60	0.916	240	0.588
70	0.951	250	0.478
80	0.974	260	0.377
90	0.983	270	0.287
100	0.996	280	0.219
110	1.000	290	0.203
120	1.000	300	0.233
130	1.000	310	0.256
135	1.000	315	0.254
140	1.000	320	0.248
150	1.000	330	0.227
160	0.980	340	0.201
170	0.947	350	0.297

Figure 1d

Tabulation of Vertical Azimuth Pattern
WITT Zionsville, IN

Azimuth	Rel Field	Azimuth	Rel Field
0	0.406	180	0.904
10	0.476	190	0.873
20	0.551	200	0.828
30	0.635	210	0.755
40	0.724	220	0.656
45	0.767	225	0.603
50	0.807	230	0.556
60	0.879	240	0.448
70	0.912	250	0.365
80	0.936	260	0.274
90	0.957	270	0.200
100	0.976	280	0.149
110	0.996	290	0.149
120	0.997	300	0.147
130	0.999	310	0.141
135	0.998	315	0.139
140	0.999	320	0.140
150	0.997	330	0.160
160	0.967	340	0.205
170	0.930	350	0.267

Figure 1e

Tabulation of Composite Azimuth Pattern
WITT Zionsville, IN

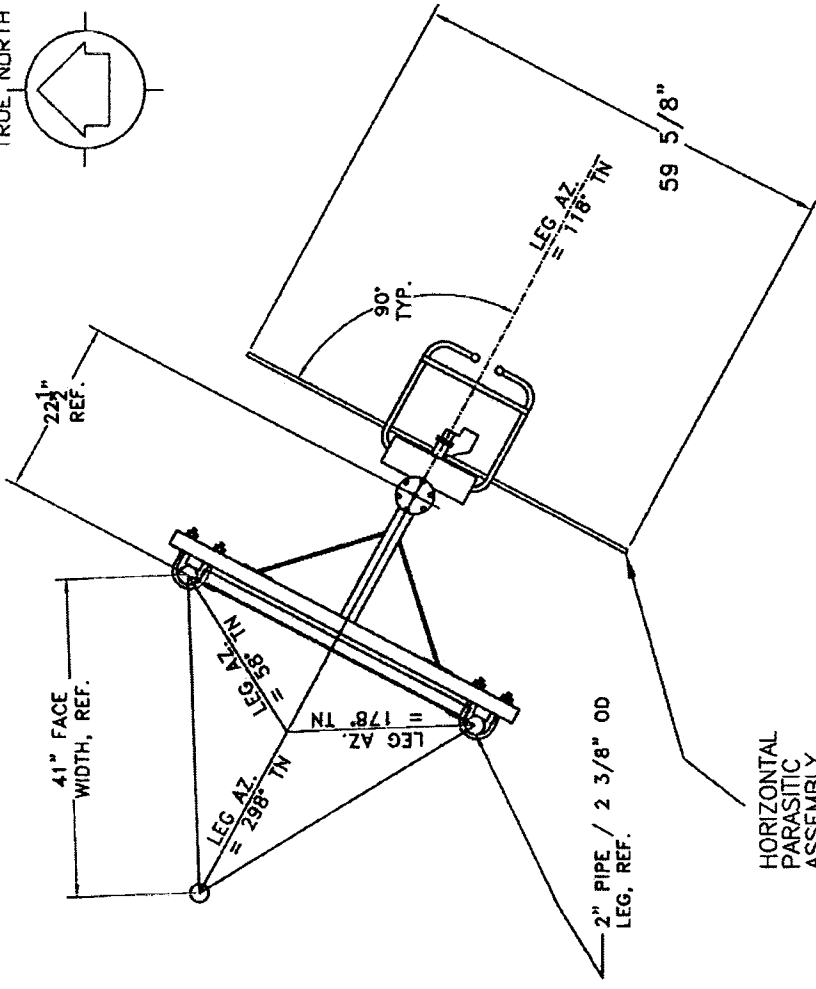
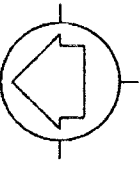
Azimuth	Rel Field	Azimuth	Rel Field
0	0.413	180	0.928
10	0.512	190	0.902
20	0.619	200	0.877
30	0.730	210	0.841
40	0.809	220	0.782
45	0.836	225	0.743
50	0.869	230	0.697
60	0.916	240	0.588
70	0.951	250	0.478
80	0.974	260	0.377
90	0.983	270	0.287
100	0.996	280	0.219
110	1.000	290	0.203
120	1.000	300	0.233
130	1.000	310	0.256
135	1.000	315	0.254
140	1.000	320	0.248
150	1.000	330	0.227
160	0.980	340	0.205
170	0.947	350	0.297

Figure 1f

Tabulation of FCC Directional Composite
WITT Zionsville, IN

Azimuth	Rel Field	Azimuth	Rel Field
0	0.517	180	1.000
10	0.650	190	1.000
20	0.818	200	1.000
30	1.000	210	1.000
40	1.000	220	1.000
50	1.000	230	1.000
60	1.000	240	1.000
70	1.000	250	1.000
80	1.000	260	0.849
90	1.000	270	0.675
100	1.000	280	0.537
110	1.000	290	0.427
120	1.000	300	0.340
130	1.000	310	0.270
140	1.000	320	0.250
150	1.000	330	0.260
160	1.000	340	0.327
170	0.950	350	0.411

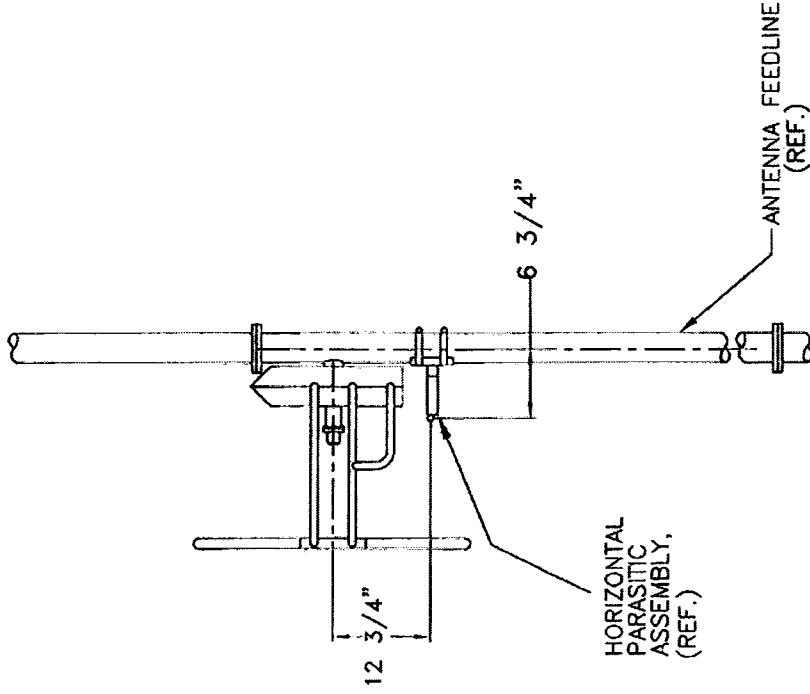
TRUE NORTH



TOP VIEW

TOWER: 41" FACE TOWER

HORIZONTAL PARASITIC ASSEMBLY, (REF.)



SIDE VIEW

SHIVELY LABS A DIVISION OF HOWELL LABORATORIES INC. BRIDGTON, MAINE		SCALE	DATE
SHOP ORDER:	FREQUENCY:	DRAWN BY:	APPROVED BY:
27450	91.9 MHZ.	N.T.S.	ASP
TITLE:		DATE:	
MODEL-6810-4R-SS-DIRECTIONAL ANTENNA		4/30/09	

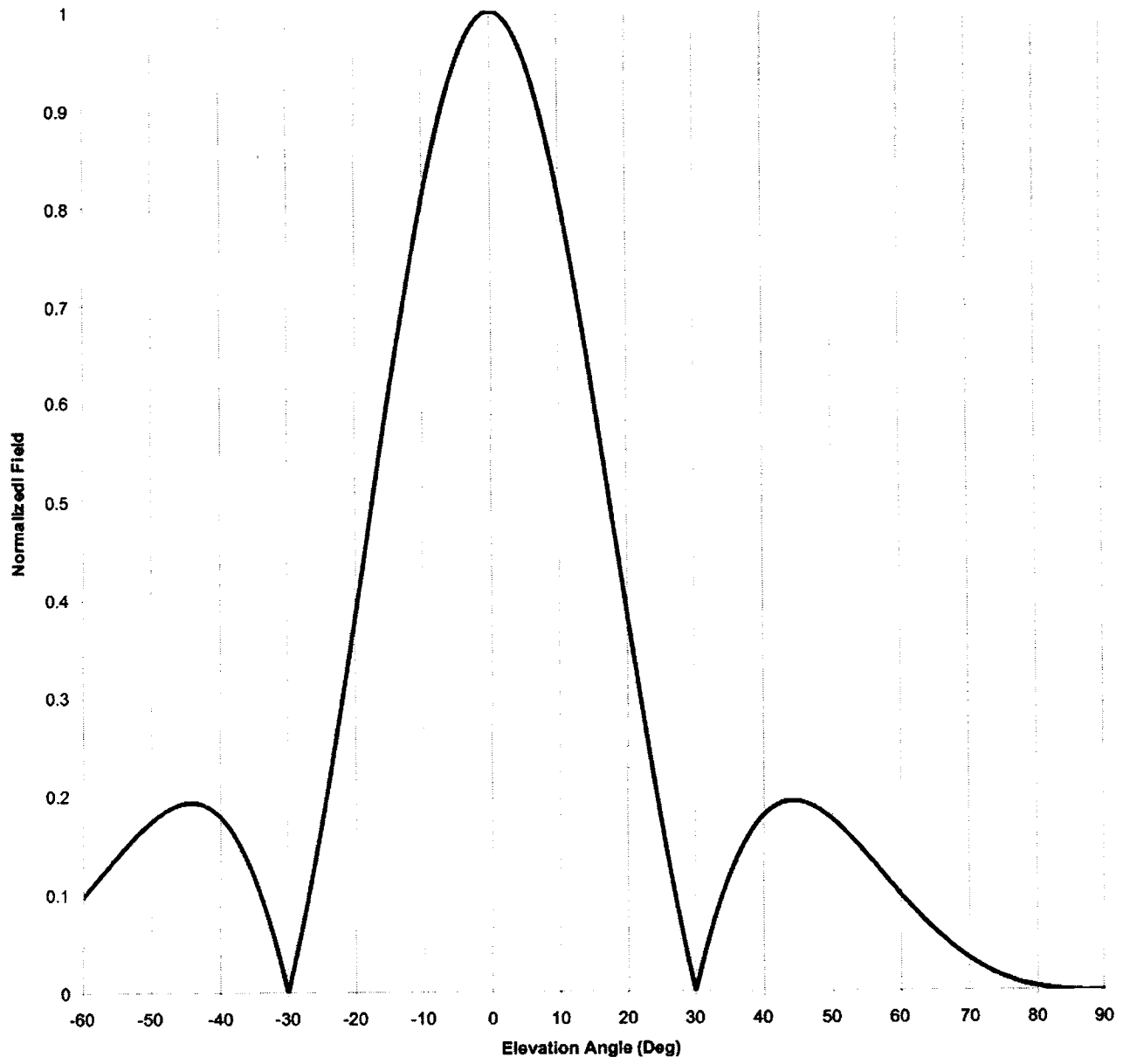
FIGURE 2

ANTENNA HEADING 118° TRUE NORTH

Antenna Mfg.: Shively Labs
Antenna Type: 6810-4R-SS-DA
Station: WITT
Frequency: 91.9
Channel #: 220
Figure: 3

Date: 5/4/2009

Beam Tilt	0	
Gain (Max)	2.526	4.025 dB
Gain (Horizon)	2.526	4.025 dB



Antenna Mfg.: Shively Labs
 Antenna Type: 6810-4R-SS-DA
 Station: WITT
 Frequency: 91.9
 Channel #: 220
 Figure: 3

Date: 5/4/2009

Beam Tilt 0
 Gain (Max) 2.526 4.025 dB
 Gain (Horizon) 2.526 4.025 dB

Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field
-90	0.000	-44	0.193	0	1.000	46	0.191
-89	0.000	-43	0.192	1	0.998	47	0.188
-88	0.000	-42	0.189	2	0.992	48	0.185
-87	0.000	-41	0.185	3	0.982	49	0.180
-86	0.000	-40	0.179	4	0.968	50	0.174
-85	0.000	-39	0.171	5	0.950	51	0.168
-84	0.001	-38	0.161	6	0.929	52	0.161
-83	0.001	-37	0.149	7	0.904	53	0.154
-82	0.002	-36	0.134	8	0.876	54	0.146
-81	0.003	-35	0.118	9	0.845	55	0.138
-80	0.004	-34	0.099	10	0.811	56	0.130
-79	0.006	-33	0.078	11	0.775	57	0.122
-78	0.007	-32	0.054	12	0.736	58	0.114
-77	0.009	-31	0.029	13	0.696	59	0.106
-76	0.012	-30	0.001	14	0.654	60	0.098
-75	0.014	-29	0.030	15	0.610	61	0.090
-74	0.017	-28	0.062	16	0.566	62	0.082
-73	0.021	-27	0.097	17	0.521	63	0.075
-72	0.024	-26	0.134	18	0.475	64	0.068
-71	0.028	-25	0.172	19	0.430	65	0.061
-70	0.033	-24	0.212	20	0.385	66	0.055
-69	0.038	-23	0.254	21	0.340	67	0.049
-68	0.043	-22	0.296	22	0.296	68	0.043
-67	0.049	-21	0.340	23	0.254	69	0.038
-66	0.055	-20	0.385	24	0.212	70	0.033
-65	0.061	-19	0.430	25	0.172	71	0.028
-64	0.068	-18	0.475	26	0.134	72	0.024
-63	0.075	-17	0.521	27	0.097	73	0.021
-62	0.082	-16	0.566	28	0.062	74	0.017
-61	0.090	-15	0.610	29	0.030	75	0.014
-60	0.098	-14	0.654	30	0.001	76	0.012
-59	0.106	-13	0.696	31	0.029	77	0.009
-58	0.114	-12	0.736	32	0.054	78	0.007
-57	0.122	-11	0.775	33	0.078	79	0.006
-56	0.130	-10	0.811	34	0.099	80	0.004
-55	0.138	-9	0.845	35	0.118	81	0.003
-54	0.146	-8	0.876	36	0.134	82	0.002
-53	0.154	-7	0.904	37	0.149	83	0.001
-52	0.161	-6	0.929	38	0.161	84	0.001
-51	0.168	-5	0.950	39	0.171	85	0.000
-50	0.174	-4	0.968	40	0.179	86	0.000
-49	0.180	-3	0.982	41	0.185	87	0.000
-48	0.185	-2	0.992	42	0.189	88	0.000
-47	0.188	-1	0.998	43	0.192	89	0.000
-46	0.191	0	1.000	44	0.193	90	0.000
-45	0.193			45	0.193		

VALIDATION OF TOTAL POWER GAIN CALCULATION

WITT 91.9 MHz Zionsville, IN

6810-4R-SS-DA

Elevation Gain of Antenna 1.310

Horizontal RMS value divided by the Vertical RMS value equals the Horiz. - Vert. Ratio

H RMS	0.741	V RMS	0.7	H/V Ratio	1.059
-------	-------	-------	-----	-----------	-------

Elevation Gain of Horizontal Component	1.387
--	-------

Elevation Gain of Vertical Component	1.238
--------------------------------------	-------

Horizontal Azimuth Gain equals $1/(RMS)^2$.	1.821
--	-------

Vertical Azimuth Gain equals $1/(RMS/Max Vert)^2$.	2.037
---	-------

Max. Vertical 0.999

***Total Horizontal Power Gain is the Elevation Gain Times the Azimuth Gain**

Total Horizontal Power Gain = 2.526

***Total Vertical Power Gain is the Elevation Gain Times the Azimuth Gain**

Total Vertical Power Gain = 2.520

=====
ERP divided by Horizontal Power Gain equals Antenna Input Power

6 kW ERP Divided by H Gain 2.526 equals 2.38 kW H Antenna Input Power

Antenna Input Power times Vertical Power Gain equals Vertical ERP

2.38 kW Times V Gain 2.520 equals 5.99 kW V ERP

Maximum Value of the Vertical Component squared times the Maximum ERP equals the Vertical ERP

(0.999)² Times 6.00 Equals 5.99 kW Vertical ERP

NOTE: Calculating the ERP of the Vertical Component by two methods validates the total power gain calculations

ASSEMBLY STATEMENT

May 20, 2009

To: Federal Communications Commission

Re: Application for License

WITT (FM) – Zionsville, IN

I hereby certify that I supervised the correct assembly of this antenna according to drawings and documentation as supplied by the manufacturer, Shively Labs, Division of Howell Laboratories, Inc., on May 19, 2009.

Also, that the antenna was mounted on the SE tower face at an orientation of 118 degrees True as specified in the manufacturer's Proof of Performance and as verified by a Registered Land Surveyor, whose report is included with this filing.

Affiant further states that he has been employed in the field of Radio Broadcast Engineering for over 32 years; was issued a First Class Radiotelephone license in 1976 and currently holds a lifetime FCC General Class License, PG-18-16043; and is clearly familiar with the requirements for assembly and installation of FM Directional Antenna systems.

The above statements are true to the best of my knowledge and belief.



Jeffrey A. Goode

Technical Consultant For:

Kids First Incorporated

EXHIBIT #C
APPL FOR STATION LICENSE
KIDS FIRST INCORPORATED
WITT (FM) RADIO STATION
CH 220A - 6.0 KW DA
ZIONSVILLE, INDIANA
May 2009

5925 Lakeside Blvd., Indianapolis, IN 46278
Phone: (317) 290-9549 Fax: (317) 290-4984
Lawrence C. Suhre - Direct Phone Line: (317) 216-7705 Ext. 210

**First Group
Engineering, Inc.**

May 27, 2009

Mr. Jim Walsh
WITT
6218 Kingsley Dr.
Indianapolis, IN 46220

RE: Antenna Orientation

Dear Mr. Walsh,

Be it known that on the day of May 19, 2009, a survey was performed on an existing tower located at 124 W 250 South, Lebanon, IN to establish the orientation for the installation of a new antenna WITT. I hereby certify that the tower antenna is oriented facing 118 degrees from true north and is compliance with the antenna manufacturer's specifications and tolerance.

Please forward to the appropriate FCC authorities. If you have any further questions, please feel free to call.

Sincerely,

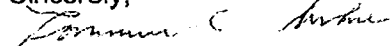

Lawrence C. Suhre, PE, PLS
Indiana Land Surveyor No. 910018



EXHIBIT #D
APPL FOR STATION LICENSE
KIDS FIRST INCORPORATED
WITT (FM) RADIO STATION
CH 220A - 6.0 KW DA
ZIONSVILLE, INDIANA
May 2009