



ELECTRONICS RESEARCH INC.

7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030

Directional Antenna System
For
WRKI, Brookfield, Connecticut

October 23, 1995

Electronics Research Inc. is providing a custom fabricated antenna system that is specially designed to meet the FCC requirements and the general needs of radio station WRKI.

The antenna is the Harris Corporation model FML-2E-DA-SP configuration. The circular polarized system consists of 2 full-wavelength spaced bays using one driven circular polarized radiating element and two vertical parasitic elements per bay. The antenna was tested on a 10 3/4" o.d. pole, which is the structure the station plans to use to support the array. All tests were performed on a frequency of 95.1 megahertz which is the center of the FM broadcast channel assigned to WRKI.

Pattern measurements were made on a sixty-acre antenna pattern range which is owned and operated by Electronics Research, Inc. The tests were performed under the direction of Thomas B. Silliman, president of Electronics Research, Inc. Mr. Silliman has the Bachelor of Electrical Engineering and the Master of Electrical Engineering degrees from Cornell University and is a registered professional engineer in the states of Indiana, Maryland and Minnesota.

EXHIBIT #B
MODIFY BLH-19960111KB
CUMULUS LICENSING LLC
WRKI (FM) RADIO STATION
CH 236B - 29.5 KW
BROOKFIELD, CONNECTICUT
February 2012

Directional Antenna System For WRKI, Brookfield, Connecticut

(Continued)

DESCRIPTION OF THE TEST PROCEDURE

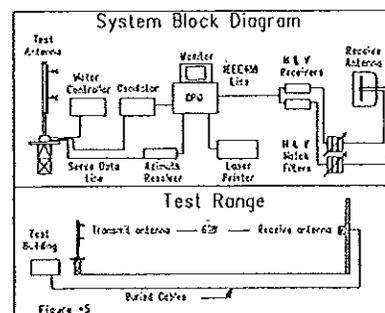
The test antenna consisted of two bay levels of the circular polarized system with the associated vertical parasitic elements. The elements and brackets that were used in this test are electrically equivalent to those that will be supplied with the antenna. A section of 3 1/8 inch o.d. rigid coaxial line was used to feed the test antenna, and a section of 3 1/8 inch o.d. rigid outer conductor only was attached above the test antenna. The lines were properly grounded during all tests.

The power distribution and phase relationship to the antenna elements was adjusted in order to achieve the directional radiation pattern for both horizontal and vertical-polarization components.

The proof-of-performance was accomplished using a supporting structure of identical dimension and configuration as the 10 3/4" o.d. pole, including all braces, ladders, conduits, coaxial lines and other appurtenances that are included in the actual aperture at which the antenna will be installed. The structure was erected vertically on a turntable mounted on a non-metallic building with the antenna centered vertically on the structure, making the center of radiation of the test approximately 30 feet above ground. The turntable is equipped with a motor drive and azimuth indicating mechanism, resolution of this azimuth measuring device is one-tenth of a degree.

The antenna under test was operated in the transmitting mode and fed from a Wavetek Model 3000 signal generator. The frequency of the signal source was set at 95.1 MHz and was constantly monitored by an Anritsu Model ML521B measuring receiver.

A broad-band horizontal and vertical dipole system, located approximately 628 feet from the test antenna, and mounted at the same height above terrain as the center of the antenna under test, was used to receive the emitted test signals.



Directional Antenna System For WRKI, Brookfield, Connecticut

(Continued)

The signals received by the dipole system were fed to the test building by way of two buried Heliac cables to an Anritsu Model ML521B measuring receiver. This data was interfaced to a Hewlett-Packard Laser Jet 4P printer by means of a 8386 computer system. Relative field strength was plotted as a function of azimuth.

The measurements were performed by rotating the test antenna in a counter-clockwise direction and plotting the received signal on polar coordinated graph paper in a clockwise direction. Both horizontal and vertical components were recorded separately.

CONCLUSIONS

The circular polarized system consists of 2 full-wavelength spaced bays using one driven circular polarized radiating element and two vertical parasitic elements per bay. The power distribution and phase relationship will be fixed when antenna is manufactured. Proper maintenance of the elements should be all that is required to maintain the pattern in adjustment.

The FML-2E-DA-SP array is to be oriented on the 10 3/4" o.d. pole at a bearing of North 97 degrees East. Blue prints provided with the antenna will show the proper antenna orientation alignment. The antenna alignment procedure should be directed by a licensed surveyor as prescribed by the FCC.

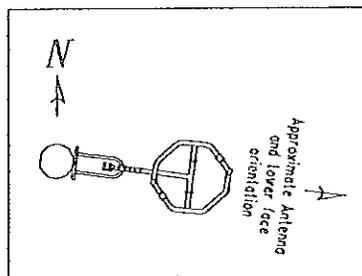


Figure #1 represents the maximum value of either the horizontal or vertical component at any azimuth. The measured horizontal plane relative field pattern, for both the horizontal and vertical polarization components, is shown on Figure #2 attached. A calculated vertical plane relative field pattern is shown on Figure #3 attached. The power in the maximum will reach 29.5 kilowatts 4.698 dBk).

Directional Antenna System
For
WRKI, Brookfield, Connecticut

(Continued)

The power at North 23 degrees East does not exceed 14.3 kilowatts (11.553 dBk).

The power at North 224 degrees East does not exceed 10.2 kilowatts (10.086 dBk).

The RMS of the vertically polarized horizontal plane component does not exceed the RMS of the horizontally polarized horizontal plane component.

The clear vertical length of the structure required to support the antenna is 26 feet if the antenna is to be top mounted.

The directional antenna should not be mounted on the top of an antenna tower which includes a top-mounted platform larger than the cross-sectional area of the tower in the horizontal plane. No other obstructions other than those that are specified by the blue prints supplied with the antenna are to be mounted at the same tower level as the directional antenna. No obstruction of any type is to be within 75 ft. horizontally of the system. The vertical distance to the nearest obstruction should be a minimum of 10 ft. from the directional antenna.

The calculated maximum power gain of the horizontally polarized component is 1.743 (2.413 dB).

The calculated maximum power gain of the vertically polarized component is 1.743 (2.413 dB).

The calculated input power to the antenna input flange is 16.924 kilowatts (12.285 dBk) to provide a maximum horizontal ERP of 29.5 kilowatts (14.698 dBk) and a maximum vertical ERP of 29.5 kilowatts (14.698 dBk). The input flange to the antenna is 3 1/8 inch female.

Dan Dowdle (RD)

ELECTRONICS RESEARCH, INC.

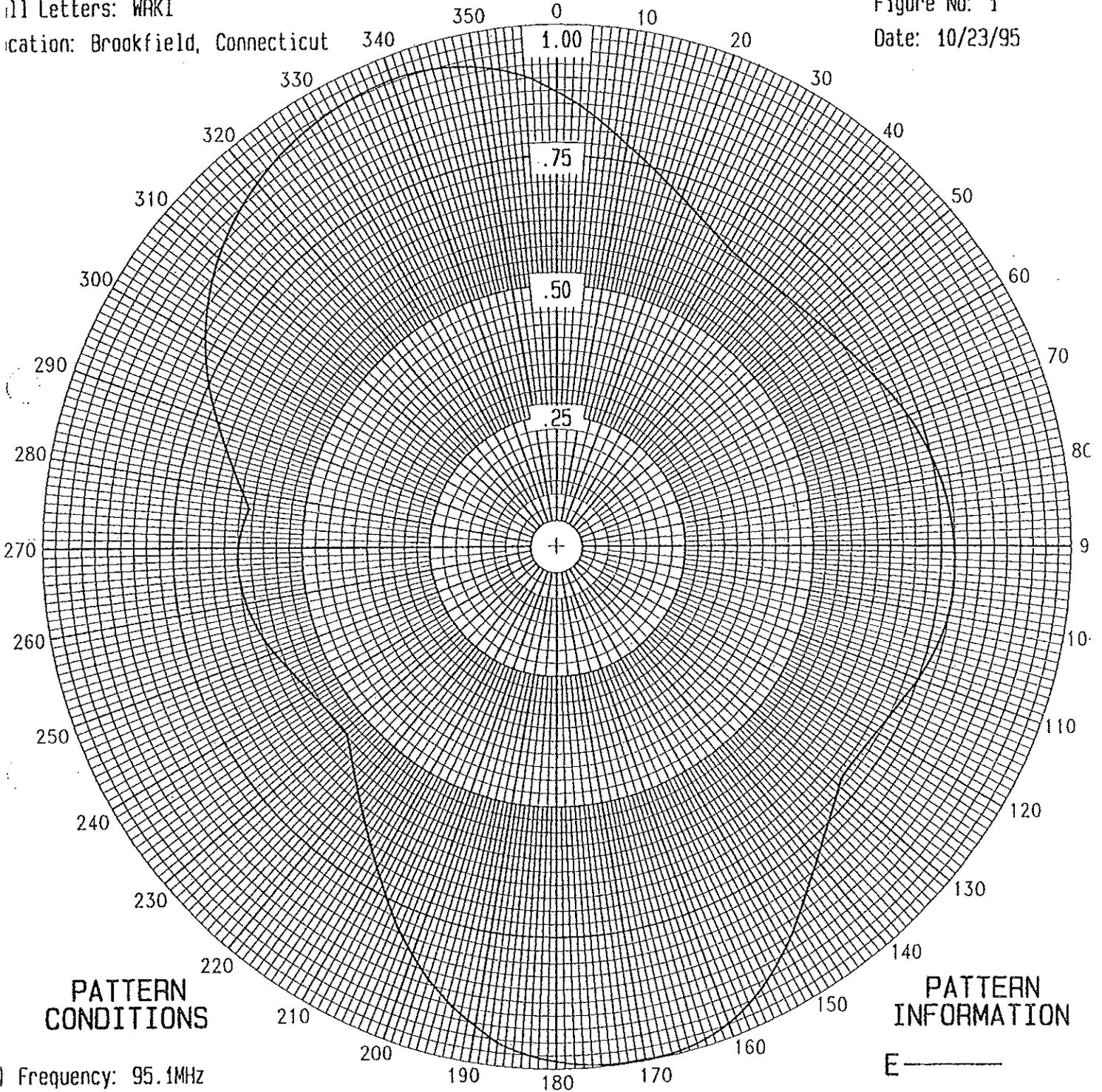
ERI HORIZONTAL PLANE RELATIVE FIELD ENVELOPE PATTERN

Call Letters: WPKI

Location: Brookfield, Connecticut

Figure No: 1

Date: 10/23/95



PATTERN CONDITIONS

PATTERN INFORMATION

-) Frequency: 95.1MHz
-) Antenna Type: FML-2E-DA-SP
-) Antenna Orientation: North 97 Deg. East
-) Antenna Mounting: Standard
-) Tower Type: 10 3/4" o.d. pole
-) Comments: Envelope pattern of the horizontal and vertical components.

ENVELOPE

RMS .7795
 Maximum: 1 @ 168°
 Minimum: .547 @ 230°



Horizontal Plane Relative Field & dBk List

Radio Station WRKI
List For Figure# 1

Frequency: 95.1MHz
Date 10/23/95

| AZIMUTH | RELATIVE FIELD | dbk | POWER kW | POLARIZATION | AZIMUTH | RELATIVE FIELD | dbk | POWER kW | POLARIZATION |
|---------|----------------|--------|----------|--------------|---------|----------------|--------|----------|--------------|
| 0° | 0.873 | 13.516 | 22.469 | HORIZONTAL | 180° | 0.989 | 14.602 | 28.850 | HORIZONTAL |
| 5° | 0.829 | 13.066 | 20.257 | HORIZONTAL | 185° | 0.969 | 14.426 | 27.708 | HORIZONTAL |
| 10° | 0.783 | 12.573 | 18.086 | HORIZONTAL | 190° | 0.933 | 14.094 | 25.671 | HORIZONTAL |
| 15° | 0.745 | 12.136 | 16.354 | HORIZONTAL | 195° | 0.887 | 13.654 | 23.197 | HORIZONTAL |
| 20° | 0.711 | 11.734 | 14.906 | HORIZONTAL | 200° | 0.831 | 13.090 | 20.369 | HORIZONTAL |
| 25° | 0.683 | 11.381 | 13.743 | HORIZONTAL | 205° | 0.770 | 12.433 | 17.510 | HORIZONTAL |
| 30° | 0.661 | 11.105 | 12.897 | HORIZONTAL | 210° | 0.709 | 11.714 | 14.838 | HORIZONTAL |
| 35° | 0.651 | 10.970 | 12.504 | VERTICAL | 215° | 0.655 | 11.026 | 12.664 | HORIZONTAL |
| 40° | 0.651 | 10.968 | 12.497 | VERTICAL | 220° | 0.609 | 10.396 | 10.955 | HORIZONTAL |
| 45° | 0.655 | 11.025 | 12.661 | VERTICAL | 225° | 0.572 | 9.842 | 9.643 | HORIZONTAL |
| 50° | 0.663 | 11.128 | 12.965 | VERTICAL | 230° | 0.547 | 9.458 | 8.827 | VERTICAL |
| 55° | 0.674 | 11.276 | 13.414 | VERTICAL | 235° | 0.550 | 9.507 | 8.928 | VERTICAL |
| 60° | 0.689 | 11.466 | 14.015 | VERTICAL | 240° | 0.558 | 9.638 | 9.200 | VERTICAL |
| 65° | 0.708 | 11.696 | 14.777 | VERTICAL | 245° | 0.572 | 9.845 | 9.650 | VERTICAL |
| 70° | 0.728 | 11.942 | 15.637 | VERTICAL | 250° | 0.590 | 10.122 | 10.285 | VERTICAL |
| 75° | 0.745 | 12.143 | 16.379 | VERTICAL | 255° | 0.607 | 10.363 | 10.872 | VERTICAL |
| 80° | 0.759 | 12.299 | 16.979 | VERTICAL | 260° | 0.619 | 10.525 | 11.286 | VERTICAL |
| 85° | 0.769 | 12.412 | 17.427 | VERTICAL | 265° | 0.625 | 10.612 | 11.514 | VERTICAL |
| 90° | 0.775 | 12.484 | 17.719 | VERTICAL | 270° | 0.624 | 10.599 | 11.480 | VERTICAL |
| 95° | 0.778 | 12.516 | 17.849 | VERTICAL | 275° | 0.614 | 10.461 | 11.120 | VERTICAL |
| 100° | 0.775 | 12.489 | 17.739 | VERTICAL | 280° | 0.627 | 10.638 | 11.583 | HORIZONTAL |
| 105° | 0.767 | 12.389 | 17.335 | VERTICAL | 285° | 0.664 | 11.140 | 13.002 | HORIZONTAL |
| 110° | 0.751 | 12.215 | 16.652 | VERTICAL | 290° | 0.706 | 11.675 | 14.707 | HORIZONTAL |
| 115° | 0.733 | 11.998 | 15.842 | VERTICAL | 295° | 0.752 | 12.222 | 16.679 | HORIZONTAL |
| 120° | 0.720 | 11.846 | 15.298 | VERTICAL | 300° | 0.794 | 12.696 | 18.603 | HORIZONTAL |
| 125° | 0.714 | 11.769 | 15.029 | VERTICAL | 305° | 0.831 | 13.094 | 20.391 | HORIZONTAL |
| 130° | 0.720 | 11.850 | 15.310 | HORIZONTAL | 310° | 0.864 | 13.426 | 22.010 | HORIZONTAL |
| 135° | 0.751 | 12.214 | 16.648 | HORIZONTAL | 315° | 0.891 | 13.698 | 23.432 | HORIZONTAL |
| 140° | 0.790 | 12.655 | 18.428 | HORIZONTAL | 320° | 0.914 | 13.915 | 24.633 | HORIZONTAL |
| 145° | 0.838 | 13.166 | 20.730 | HORIZONTAL | 325° | 0.931 | 14.081 | 25.594 | HORIZONTAL |
| 150° | 0.893 | 13.711 | 23.502 | HORIZONTAL | 330° | 0.944 | 14.200 | 26.300 | HORIZONTAL |
| 155° | 0.941 | 14.168 | 26.107 | VERTICAL | 335° | 0.952 | 14.271 | 26.739 | HORIZONTAL |
| 160° | 0.977 | 14.492 | 28.133 | VERTICAL | 340° | 0.955 | 14.298 | 26.905 | HORIZONTAL |
| 165° | 0.996 | 14.664 | 29.270 | VERTICAL | 345° | 0.949 | 14.247 | 26.592 | HORIZONTAL |
| 170° | 1.000 | 14.698 | 29.500 | VERTICAL | 350° | 0.935 | 14.110 | 25.766 | HORIZONTAL |
| 175° | 0.999 | 14.688 | 29.430 | HORIZONTAL | 355° | 0.910 | 13.883 | 24.452 | HORIZONTAL |

CITY OF LICENSE: Brookfield, Connecticut

MOUNTING STRUCTURE: 10 3/4" o.d. pole

ANTENNA TYPE: FML-2E-DA-SP NUMBER OF BAYS:2

ENVELOPE MAXIMUM RELATIVE FIELD=1.0000 AZIMUTH=168°

ENVELOPE MINIMUM RELATIVE FIELD=0.5470 AZIMUTH=230°

ENVELOPE RMS=.7795

MAXIMUM HORIZONTAL E.R.P.= 29.500kW MAXIMUM VERTICAL E.R.P.= 29.500kW

TOTAL POWER INPUT= 16.9241kW

MAXIMUM HORIZONTAL POWER GAIN OF THE COMPLETE ARRAY= 1.743(2.413dB)

MAXIMUM VERTICAL POWER GAIN OF THE COMPLETE ARRAY= 1.743(2.413dB)

ANTENNA ORIENTATION: North 97 degrees East

REFERENCE: WRKIV.PAT



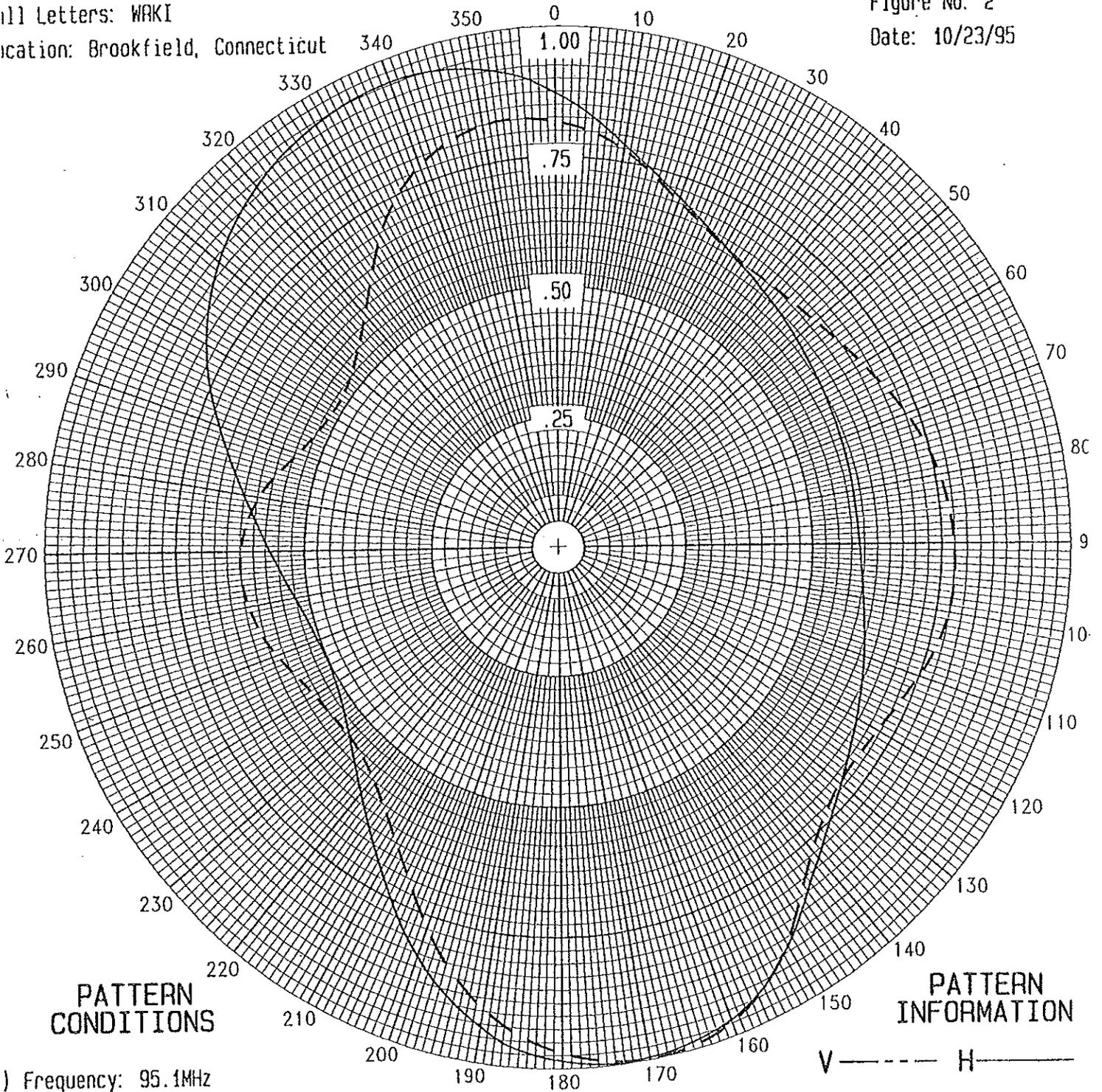
HORIZONTAL PLANE RELATIVE FIELD PATTERN

Call Letters: WAKI

Location: Brookfield, Connecticut

Figure No: 2

Date: 10/23/95



PATTERN CONDITIONS

- 1) Frequency: 95.1MHz
- 2) Antenna Type: FML-2E-DA-SP
- 3) Antenna Orientation: North 97 Deg. East
- 4) Antenna Mounting: Standard
- 5) Tower Type: 10 3/4" o.d. pole
- 6) Comments: The measured horizontal and vertical components.

PATTERN INFORMATION

| VERTICAL | HORIZONTAL |
|-----------------------|----------------------|
| RMS .725 | RMS .7492 |
| Maximum: 1 @ 168° | Maximum: 1 @ 173° |
| Minimum: .5134 @ 303° | Minimum: .503 @ 245° |



Horizontal Plane Relative Field & dBk List

Radio Station WRKI
List For Figure# 2

Frequency: 95.1MHz
Date 10/23/95

| ZIMUTH | H POL RELATIVE FIELD | H POL dBk | H POL POWER KW | V POL RELATIVE FIELD | V POL dBk | V POL POWER KW | AZIMUTH | H POL RELATIVE FIELD | H POL dBk | H POL POWER KW | V POL RELATIVE FIELD | V POL dBk | V POL POWER KW |
|--------|----------------------------|--------------|----------------------|----------------------------|--------------|----------------------|---------|----------------------------|--------------|----------------------|----------------------------|--------------|----------------------|
| 0° | 0.873 | 13.516 | 22.469 | 0.817 | 12.945 | 19.701 | 180° | 0.989 | 14.602 | 28.850 | 0.973 | 14.462 | 27.941 |
| 5° | 0.829 | 13.066 | 20.257 | 0.800 | 12.757 | 18.867 | 185° | 0.969 | 14.426 | 27.708 | 0.942 | 14.175 | 26.152 |
| 10° | 0.783 | 12.573 | 18.086 | 0.773 | 12.467 | 17.649 | 190° | 0.933 | 14.094 | 25.671 | 0.898 | 13.761 | 23.774 |
| 15° | 0.745 | 12.136 | 16.354 | 0.739 | 12.065 | 16.089 | 195° | 0.887 | 13.654 | 23.197 | 0.842 | 13.201 | 20.899 |
| 20° | 0.711 | 11.734 | 14.906 | 0.704 | 11.644 | 14.601 | 200° | 0.831 | 13.090 | 20.369 | 0.774 | 12.467 | 17.650 |
| 25° | 0.683 | 11.381 | 13.743 | 0.677 | 11.314 | 13.532 | 205° | 0.770 | 12.433 | 17.510 | 0.705 | 11.666 | 14.675 |
| 30° | 0.661 | 11.105 | 12.897 | 0.660 | 11.086 | 12.842 | 210° | 0.709 | 11.714 | 14.838 | 0.649 | 10.947 | 12.437 |
| 35° | 0.645 | 10.888 | 12.268 | 0.651 | 10.970 | 12.504 | 215° | 0.655 | 11.026 | 12.664 | 0.605 | 10.340 | 10.814 |
| 40° | 0.632 | 10.713 | 11.783 | 0.651 | 10.968 | 12.497 | 220° | 0.609 | 10.396 | 10.955 | 0.574 | 9.873 | 9.712 |
| 45° | 0.622 | 10.580 | 11.429 | 0.655 | 11.025 | 12.661 | 225° | 0.572 | 9.842 | 9.643 | 0.554 | 9.573 | 9.064 |
| 50° | 0.613 | 10.447 | 11.085 | 0.663 | 11.128 | 12.965 | 230° | 0.542 | 9.383 | 8.675 | 0.547 | 9.458 | 8.827 |
| 55° | 0.606 | 10.345 | 10.827 | 0.674 | 11.276 | 13.414 | 235° | 0.521 | 9.035 | 8.008 | 0.550 | 9.507 | 8.928 |
| 60° | 0.600 | 10.258 | 10.613 | 0.689 | 11.466 | 14.015 | 240° | 0.508 | 8.814 | 7.610 | 0.558 | 9.638 | 9.200 |
| 65° | 0.595 | 10.187 | 10.441 | 0.708 | 11.696 | 14.777 | 245° | 0.503 | 8.730 | 7.464 | 0.572 | 9.845 | 9.650 |
| 70° | 0.591 | 10.133 | 10.311 | 0.728 | 11.942 | 15.637 | 250° | 0.506 | 8.780 | 7.551 | 0.590 | 10.122 | 10.285 |
| 75° | 0.589 | 10.096 | 10.223 | 0.745 | 12.143 | 16.379 | 255° | 0.514 | 8.914 | 7.787 | 0.607 | 10.363 | 10.872 |
| 80° | 0.587 | 10.075 | 10.174 | 0.759 | 12.299 | 16.979 | 260° | 0.527 | 9.127 | 8.179 | 0.619 | 10.525 | 11.286 |
| 85° | 0.587 | 10.077 | 10.178 | 0.769 | 12.412 | 17.427 | 265° | 0.544 | 9.413 | 8.737 | 0.625 | 10.612 | 11.514 |
| 90° | 0.591 | 10.124 | 10.291 | 0.775 | 12.484 | 17.719 | 270° | 0.567 | 9.766 | 9.476 | 0.624 | 10.599 | 11.480 |
| 95° | 0.597 | 10.219 | 10.518 | 0.778 | 12.516 | 17.849 | 275° | 0.594 | 10.177 | 10.417 | 0.614 | 10.461 | 11.120 |
| 100° | 0.607 | 10.359 | 10.863 | 0.775 | 12.489 | 17.739 | 280° | 0.627 | 10.638 | 11.583 | 0.596 | 10.202 | 10.475 |
| 105° | 0.620 | 10.543 | 11.331 | 0.767 | 12.389 | 17.335 | 285° | 0.664 | 11.140 | 13.002 | 0.570 | 9.810 | 9.571 |
| 110° | 0.636 | 10.773 | 11.947 | 0.751 | 12.215 | 16.652 | 290° | 0.706 | 11.675 | 14.707 | 0.543 | 9.399 | 8.708 |
| 115° | 0.653 | 11.003 | 12.597 | 0.733 | 11.998 | 15.842 | 295° | 0.752 | 12.222 | 16.679 | 0.525 | 9.106 | 8.139 |
| 120° | 0.672 | 11.252 | 13.340 | 0.720 | 11.846 | 15.298 | 300° | 0.794 | 12.696 | 18.603 | 0.515 | 8.941 | 7.836 |
| 125° | 0.694 | 11.527 | 14.212 | 0.714 | 11.769 | 15.029 | 305° | 0.831 | 13.094 | 20.391 | 0.515 | 8.932 | 7.820 |
| 130° | 0.720 | 11.850 | 15.310 | 0.717 | 11.807 | 15.162 | 310° | 0.864 | 13.426 | 22.010 | 0.527 | 9.133 | 8.191 |
| 135° | 0.751 | 12.214 | 16.648 | 0.736 | 12.041 | 15.999 | 315° | 0.891 | 13.698 | 23.432 | 0.551 | 9.522 | 8.958 |
| 140° | 0.790 | 12.655 | 18.428 | 0.772 | 12.453 | 17.593 | 320° | 0.914 | 13.915 | 24.633 | 0.587 | 10.074 | 10.173 |
| 145° | 0.838 | 13.166 | 20.730 | 0.824 | 13.020 | 20.047 | 325° | 0.931 | 14.081 | 25.594 | 0.635 | 10.760 | 11.913 |
| 150° | 0.893 | 13.711 | 23.502 | 0.889 | 13.673 | 23.296 | 330° | 0.944 | 14.200 | 26.300 | 0.694 | 11.524 | 14.202 |
| 155° | 0.940 | 14.165 | 26.090 | 0.941 | 14.168 | 26.107 | 335° | 0.952 | 14.271 | 26.739 | 0.745 | 12.136 | 16.351 |
| 160° | 0.972 | 14.451 | 27.865 | 0.977 | 14.492 | 28.133 | 340° | 0.955 | 14.298 | 26.905 | 0.783 | 12.575 | 18.091 |
| 165° | 0.989 | 14.601 | 28.847 | 0.996 | 14.664 | 29.270 | 345° | 0.949 | 14.247 | 26.592 | 0.810 | 12.864 | 19.337 |
| 170° | 0.998 | 14.682 | 29.391 | 1.000 | 14.698 | 29.500 | 350° | 0.935 | 14.110 | 25.766 | 0.824 | 13.018 | 20.035 |
| 175° | 0.999 | 14.688 | 29.430 | 0.993 | 14.635 | 29.070 | 355° | 0.910 | 13.883 | 24.452 | 0.826 | 13.037 | 20.125 |

CITY OF LICENSE: Brookfield, Connecticut

MOUNTING STRUTURE: 10 3/4" o.d. pole

ANTENNA TYPE: FML-2E-DA-SP NUMBER OF BAYS:2

HORIZONTAL MAXIMUM RELATIVE FIELD=1.0000 AZIMUTH=173

HORIZONTAL MINIMUM RELATIVE FIELD=0.5030 AZIMUTH=245

VERTICAL MAXIMUM RELATIVE FIELD=1.0000 AZIMUTH=168

VERTICAL MIMIMUM RELATIVE FIELD=0.5134 AZIMUTH=303

HORIZONTAL RMS=.7492 VERTICAL RMS=.7250

MAXIMUM HORIZONTAL E.R.P.= 29.500kW MAXIMUM VERTICAL E.R.P. = 29.500kW

TOTAL POWER INPUT= 16.9241kW

MAXIMUM HORIZONTAL POWER GAIN OF THE COMPLETE ARRAY= 1.743(2.413dB)

MAXIMUM VERTICAL POWER GAIN OF THE COMPLETE ARRAY= 1.743(2.413dB)

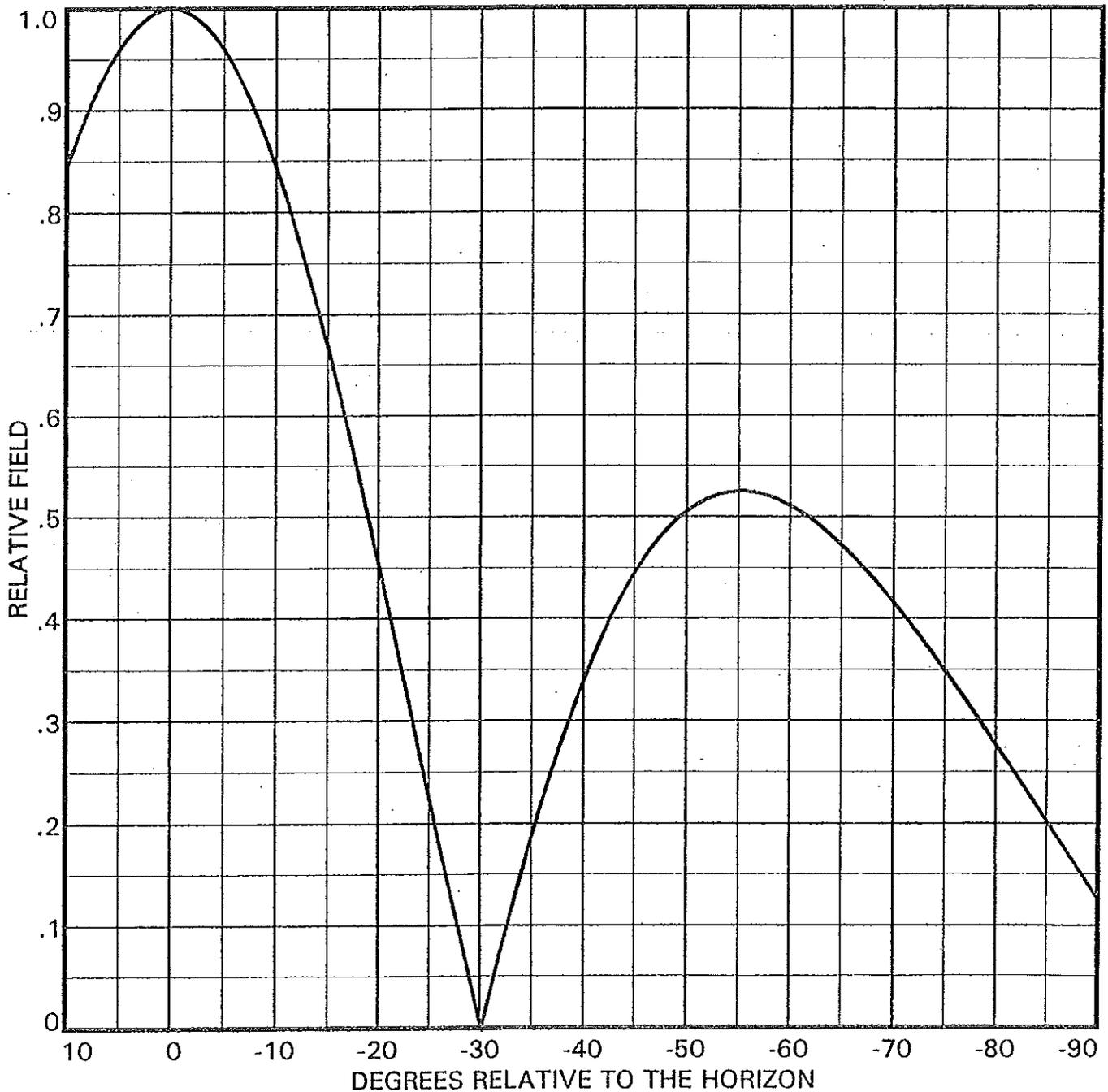
ANTENNA ORIENTATION: North 97 degrees East

REFERENCE: WRKI.H.PAT WRKIV.PAT

THEORETICAL VERTICAL PLANE RELATIVE FIELD PATTERN

FIGURE # 3
Brookfield, Connecticut
WRKI
95.1MHz
2 BAY FML-2E-DA-SP ANTENNA

October 23, 1995
0 DEGREE BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL
1 WAVELENGTH SPACING



ELECTRONICS RESEARCH, INC. 7777 Gardner Rd. Chandler, In. 47610 Phone: (812) 925-6000 Fax: (812) 925-4030

CCA

CARROCCIO - COVILL & ASSOCIATES, INC.

ENGINEERING • SURVEYING • ENVIRONMENTAL

RICHARD W. HOWARD, JR., P.E.
RUSSELL T. POSTHAUER, JR., P.E.
MICHAEL J. LILLIS, P.E.
RICHARD A. BUNNELL, R.L.S.
STEPHEN R. LATOUR, R.L.S.
JENNIS S. McMORROW, P.E.

WAYNE A. THOMAS, P.G., R.E.M.
RALPH A. KLASS, P.E.

40 OLD NEW MILFORD ROAD
BROOKFIELD, CT 06804
(203) 775-6207
FAX (203) 775-3628

33A VILLAGE GREEN DRIVE
LITCHFIELD, CT 06759
(203) 567-3179

LICENSED IN CT, NY, VT, ME

December 15, 1995

WINE / WRKI
1004 Federal Road
Brookfield, Connecticut 06804

Attention: Mr. Pat Carlone

RE: FM Directional Antenna for WRKI
Brookfield, CT

Dear Pat:

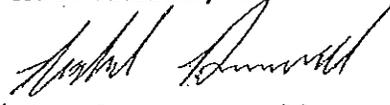
Pursuant to your request, we performed measurements on Tuesday, December 5, 1995 at your tower site at 39 Carmen Hill Road in Brookfield, Connecticut. Using a compass and a magnetic declination chart provided by the Central Surveys Department of the State of Connecticut, we set - out an azimuth of 97 degrees east of true north. On Friday, December 15, we again visited the site to measure the installed azimuth of a device described as the FM directional antenna for WRKI Brookfield.

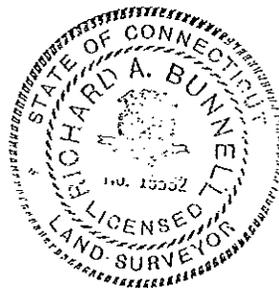
To the best of our knowledge, belief and ability, the FM directional antenna has been set at an azimuth 97 degrees east of north.

If you have any questions, please feel free to contact our office.

Very truly yours,

CARROCCIO-COVILL &
ASSOCIATES, INC.


Richard A. Bunnell, R.L.S.



RAB/ra

DANBURY
BROADCASTING
INC.

WINE/WRKI-FM
P.O. Box 95
Danbury, CT 06813

(203) 775-1212
FAX (203) 775-6452

GARY J. STARR
President

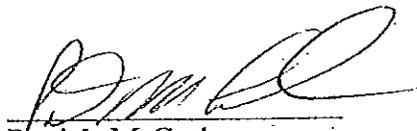
December 15th 1995

Federal Communications Commission
Washington, DC

TO WHOM IT MAY CONCERN

This is to certify that I observed and supervised the assembly and installation of the FM directional antenna system for WRKI Brookfield, Connecticut, and that the system was installed pursuant to the manufacturer's instructions.

I have been practicing engineering continuously since 1971 as the chief operator for WINE/WRKI-FM and hold a "General Radiotelephone Operator License" #PG-1-8580.



Patrick M Carlone
Chief Operator for WINE/WRKI