ELECTRONICS RESEARCH, INC.
7777 Gardner Road, Chandler, Indiana 47610, (812) 925-6000, Fax (812) 925-4030

Report Of Intermodulation Product Findings

WNOU, WFMS BROADCAST FACILITY
INDIANAPOLIS, INDIANA

December 2002

Electronics Research Inc.
7777 Gardner Road
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B-2 . . . . . Broadcasting Scheme of the Multiplexed System

REPORT OF FINDINGS
BURK ROAD BROADCAST FACILITY
INDIANAPOLIS, INDIANA
December 15, 2002

Introduction : This report of findings is based on data collected at the Burk Road FM broadcast facility located in Indianapolis, IN. The report includes measurements offered as proof that the combined operations of WNOU (93.1 MHz.) and WFMS (95.5 MHz.) are in compliance with the FCC Rules and Regulations as required by the Code of Federal Regulations (CFR) Title 47 section 73.317 paragraph (b through d). In brief, the collection of measurements presented in this report shows that all possible second order inter-modulation (IM) products generated by this multiplex system are less than the maximum allowable level as required by section 73.317 (b through d). WZPL (99.5 MHz.) operate into separate tower located within 1/4 mile from the WNOU and WFMS combined antenna. Their effects on the stations operating from the multiplexed system has been considered in this report. Mark Steapleton of Electronics Research, Inc. located in Chandler, Indiana performed the measurements summarized herein on December 15, 2002.

The following exhibits are provided:

Exhibit A:
- A-1 Drawing Depicting Antenna.
- A-2 1083-3CP Antenna Specification Sheet.
- A-3 Drawing Depicting Multiplexing Scheme.
- A-4 Multiplexer Specification Sheet.
- A-5 Theoretical Vertical Plane Relative Field Antenna Plots

Exhibit B:
- B-1 Equipment Employed In Intermodulation Product Measurement.
- B-2 Broadcasting Scheme of the Multiplexed Systems.

Table 1. Carrier Reference Levels.
Table 2. Calculated Second Order Products.
Table 3. Intermodulation Analysis Measurements.

Exhibits Accompanying Report: Exhibit A, provides comprehensive information on both antenna and filters used by these radio stations. Exhibit B, illustrates the broadcasting scheme of each station, the layout of the equipment used to isolate and measure potential intermodulation products and forward carrier reference levels. Found within Table 1 are the narrow band carrier frequency measurements that provide relative output signal levels for the IM analysis. Table 2 lists the calculated second order products that can be generated from FM transmitters broadcasting from the multiplexed system. The IM Analysis Measurements, in Table 3, provides detailed information obtained from the product frequency investigation.

The Nature Of Intermodulation Products (IM) : Intermodulation products result from inadequate transmitter-to-transmitter isolation. Intermodulation products are commonly generated from radio stations operating into multiplexed facilities and congested antenna broadcast sites. The mechanics associated with the phenomenon have been well documented. When two or more transmitters are coupled to each other, new spectral components are produced by the mixing of the station frequencies in the active circuits of each transmitter. The common term used to describe this phenomenon is second order product denoted by the mathematical expression $[\ 2(F_1)-(F_2)\ ]$, where F_1 signifies the frequency of the transmitter that is generating the intermodulation product, and F_2 signifies the frequency causing the interference.

The Multiplexed System : At the time of my measurements two FM stations were operating from the combined antenna system. The WNOU, and WFMS multiplexed system is fundamentally comprised of antenna, feed line and multiplexer unit. The 1083-3CP antenna and 960-6 constant impedance multiplexer units are products of Electronics Research, Inc, whereas the feed line is manufactured by Andrew and Myat, Refer to Exhibit B-2, for an illustration of the Broadcasting Scheme of these stations.

To accomplish the aggregation of two transmitter signals into a common antenna feed and provide transmitter-to-transmitter isolation, a multiplexing scheme consisting of combiner modules was installed. Specifically, two ERI 960-6 constant impedance combiner modules and four ERI 945 notch filters were installed into the broad port of the combiner to be used as an auxiliary transmitter site for WENS (97.1 MHz.) and WYXB (105.7 MHz.) The complete combiner is illustrated in the attached Exhibit A-3. The multiplexer, fully assembled, exhibited transmitter port-to-port isolation in excess of -50 dB. Other performance measurements, such as match, loss, group-delay, etc, revealed that the multiplexer unit was in proper working condition. Refer to Exhibit A-4 for the Combiner Specification Sheet.

The IM Investigation : Directional Couplers were placed at key locations throughout the combiner to monitor and maintain the multiplexers performance. All couplers furnished with the system are factory calibrated and capable of delivering accurate and repeatable RF measurements. To facilitate the taking of the measurements, the coupler located at the antenna output of the multiplexed system was used. Care was taken in the selection of the measurement location to insure that the measurements would be made far removed from transmitters and any filtering used to reduce broadcast emissions. The coupler selected would normally be used for antenna reflection measurements and thus would provide greater than 32 dB directivity and a forward signal sample of -41 dB.

The forward port of the coupler was used for sampling the outgoing carrier levels and IM products. The IM sampled signal was fed by shielded cable into a Band Pass Filter where all extraneous energy was steeply attenuated. Various attenuation pads were used, when needed, on the band pass filter and/or the FIM71 to ensure an adequate signal level for measurements without overloading the measurement equipment. A Potomac Instruments FIM-71 Field Strength Receiver was employed to record the level of all signals investigated. To facilitate the selective tuning of the Receiver and Band Pass Filter a Wavetek Model 3000 signal generator was used. An Anritsu Model S114B Spectrum Analyzer was used to measure the close in spectral attenuation of each carrier and wide band search for any anomalies that may need further investigation. See attached Exhibit B-1 for an illustration of the measurement equipment.

Prior to recording measurements, all pertinent broadcasting equipment including Transmitters, Multiplexer, Feed Line and Antenna were adjusted to optimal performance. Also, it was confirmed before taking any measurements that all stations of concern were operating at their full licensed power level. From the equipment setup described above, the relative output signal level of each stations forward carrier was made. The resulting signal levels of these measurements are listed in Table 1, column labeled "Adjusted Level". This level will be used as the reference level for possible IM products of each carrier and was necessary to confirm that no significant levels of spurious energy, referenced to each carrier, were present from any transmitter operating from the multiplexed system.

Table 1 - Carrier Reference Levels

Carrier Frequency (MHz)	Pad One (dB)	Bandpass Filter Loss (dB)	Full Scale Range (dBμ)	Scale Reading (dB)	**Adjusted Level (dBμ)**	Notes
WNOU (93.1)	10	---	140	-16.8	**133.2**	
WFMS (95.5)	10	---	140	-14.8	**135.2**	

Predictable second-order products due to system harmonics mixed with all on-site interfering frequencies that could be generated from the multiplexed system are calculated and listed in Table 2.

Table 2 - Second order Products.

	Carrier Frequency (MHz)	
Interfering Frequency (MHz)	**WNOU 93.1**	**WFMS 95.5**
WNOU 93.1	---	97.9
WFMS 95.5	90.7	---

Using the equipment previously described the IM product measurements were recorded and are listed in Table 3. The signal levels referenced to the carriers are calculated and listed in the column labeled "Level Referenced to Carrier". Refer to Exhibit B for a layout of the measurement equipment.

Table 3 Intermodulation Measurements

Product Frequency (MHz)	Carrier Frequency (MHz)	Interfering Frequency (MHz)	Pad (dB)	Bandpass Filter Loss (dB)	Full Scale Range (dBµ)	Scale reading (dB)	Adjusted Level (dBµ)	Carrier Reference Level (dBµ) (See Table 1)	**Level Referenced to Carrier (dB)**	Notes*
86.7	93.1	99.5	10	7.1	20	<-20.0	< 17.1	133.2	**< -116.1**	
90.7	93.1	95.5	10	6.9	20	-11.9	25.0	133.2	**108.2**	
91.5	95.5	99.5	10	6.6	20	-16.9	19.7	135.2	**115.5**	
97.9	95.5	93.1	10	6.2	40	-4.2	52.0	135.2	**83.2**	1

NOTES

1) Measured signal is a local carrier WGNR transmitting at 97.9 MHz: No discernable signal was measured.

The Spectrum Analyzer was used to check the close- in spectral attenuation of each transmitter operating into the combined antenna system, for compliance with Sections (b) and (c) of the FCC Rules and Regulations.

As a final proof of the systems IM Product performance, a wide band search was undertaken using the Spectrum Analyzer. The purpose for this measurement was to look for suspicious anomalies that may warrant further investigation. My search ranged the complete frequency span of the analyzer and resulted in no additional investigations.

Conclusion : Based upon my observations and measurements taken December 15th., 2002 as summarized in this document, I, Mark Steapleton, find the subject multiplexed system- specifically the transmitters and combiner system for the operation of the WNOU, and WFMS into the 1083-3CP antenna- to be in proper working order. Furthermore, based on the measured data, it is my opinion that there are no inter-modulation products in excess of 80 dB below carrier levels generated from or within the stations operating on the installed system. Also, based on this recorded data. I conclude that WNOU, and WFMS are in compliance with the requirements of Section 73.317 paragraph (b through d) of the FCC Rules and Regulations.

Respectfully submitted,
Electronics Research, Inc.

By Mark Steapleton
Mark Steapleton Field Technician

State of Indiana)
) SS:
County of Warrick)

AFFIDAVIT

I, Mark Steapleton, hereby declare that the following statements are true and correct to the best of my knowledge and belief :

1.) I am a Field Technician for Electronics Research, Inc ("ERI ") and have been employed by ERI for 22 years. I am familiar with and have assisted in the design, manufacturing and installation of FM Antennas and FM Multiplexers in my long tenure with ERI.

2.) I have either prepared and/or directly supervised the preparation of all technical information contained in this Report Of Findings and to my knowledge to be accurate and true.

3.) ERI has been requested by Emmis Communications on behalf of radio Stations WNOU and WFMS in Indianapolis, IN. to prepare this Report Of Findings.

Mark Steapleton

Mark Steapleton; Field Technician

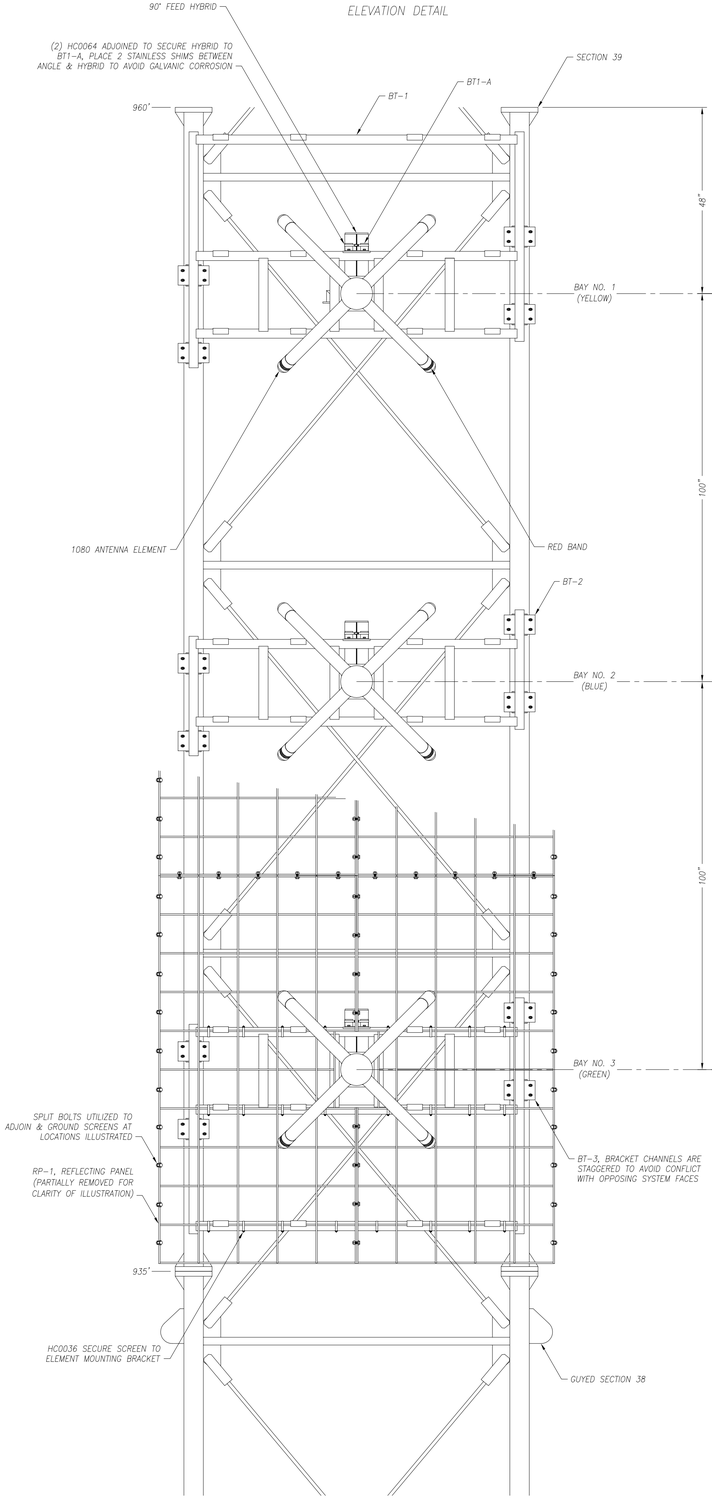
Subscribed and sworn to before me on this 20th. day of December 2002.

Jacquelyn J Kinney

Jacquelyn Kinney; Notary Public
My commission expires July 5, 2007

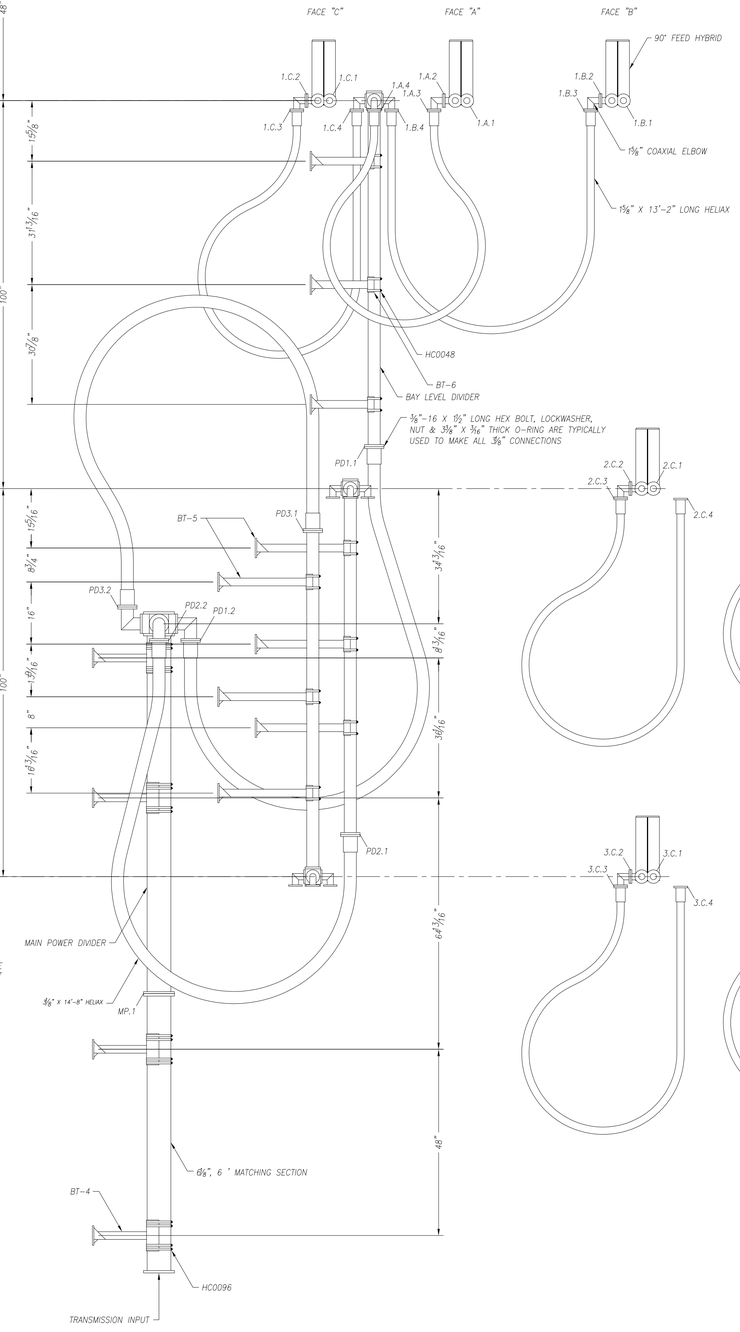
NOTARY PUBLIC
INDIANA

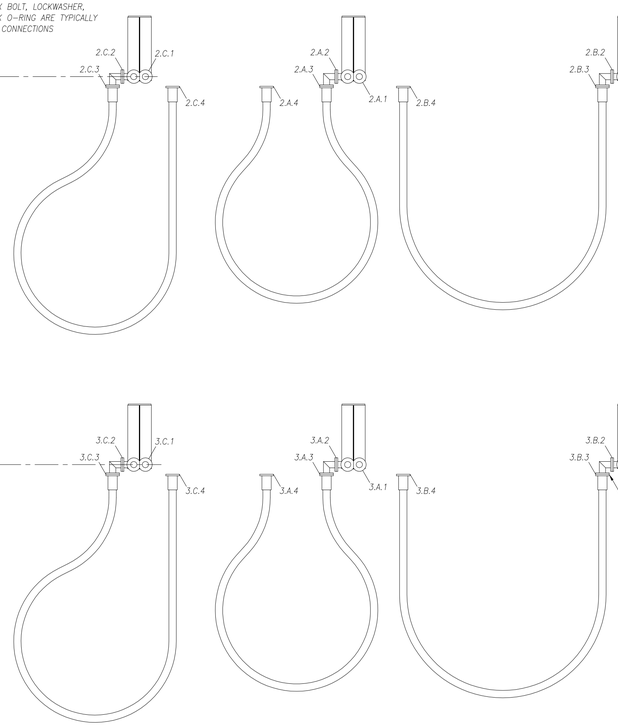
ELEVATION DETAIL



FEED HARNESS DETAIL

HARNESS SHOWN PARTIALLY REPLICATED & DETACHED TO CLARIFY NUMBERING SCHEME, CONFIGURATION & ELEVATION OF COMPONENTS, SEE NOTES FOR FURTHER DETAILS





TOP VIEW

NOTES:

1) ALL RED BANDS DESIGNATE SIDE TO BE MOUNTED DOWNWARD.

2) ASSEMBLE ANTENNA SYSTEM BY MATING CORRESPONDING NUMBERS & LETTERS.

3) ELEVATIONS & ILLUSTRATED POSITIONS FOR COMPONENTS MY BE MODIFIED, IF APPLICABLE, TO ACCOMMODATE INSTALLATION, AVOIDING CONFLICT WITH EXISTING TOWER & NEW ANTENNA SYSTEM CONFIGURATIONS.

4) SYSTEM COMPONENTS ARE LISTED WITHIN SHIPPING RECORD (LOCATED RIGHT). PARTS LISTED BELOW COMPONENT INDICATE HARDWARE REQUIRED TO INSTALL, ATTACH &/OR CONNECT COMPONENT.

5) SYSTEM WAS DESIGNED TO ACCOMMODATE THE FOLLOWING FREQUENCIES:
105.7 MHz.
97.1 MHz.
95.5 MHz.
93.1 MHz.

6) BAYS ARE COLOR-CODED FOR EASE OF INSTALLATION:
BAY NO. 1 = YELLOW
BAY NO. 2 = BLUE
BAY NO. 3 = GREEN

7) ACTUAL TOWER ORIENTATIONS UNAVAILABLE, THEREFORE NORTH IS GIVEN AS A REFERENCE ONLY AND MAY NOT DEPICT EXACT NORTH LOCATION.

09680A/1 Indianapolis, IN. Shipping Record

ELECTRICAL:

(9) AE10BD-80Y1, Antenna Element
(36) SC0813H0200, ⅜"-13 X 2" Long Hex Bolt
(36) WL0855, ⅜" Lockwasher
(72) WF0855, ⅜" Flatwasher
(36) NU0813, ⅜" Hex Nut

(9) HY0030, 90° Feed Hybrid
(72) SC0518H0075, 5⁄16"-18 x ¾" Long Hex Bolt
(72) WL0505, 5⁄16" Lockwasher
(72) NU0518, 5⁄16" Hex Nut
(18) OR2328S, O-RING, 1⅞" I.D. X 3⁄16" Thick
(9) GREASE

(16) CE1022, 1⅝" Mitered Coaxial Elbow
(Hardware allows for connection to 90° Feed Hybrid, Bay Level Divider & 1⅝" Flexible Heliax)
(108) SC0518H0125, 5⁄16"-18 x 1¼" Long Hex Bolt
(36) SC0518H0075, 5⁄16"-18 x ¾" Long Hex Bolt
(144) WL0505, 5⁄16" Lockwasher
(108) NU0518, 5⁄16" Hex Nut
(36) OR2328S, O-RING, 1⅞" I.D. X 3⁄16" Thick
(18) GREASE

(9) CL1067, 1⅝" X 13'-2" Long Flexible Heliax

(3) PD3331Q, Bay Level Divider
(18) SC0616H0150, ⅜"-16 x 1½" Long Hex Bolt
(18) WL0655, ⅜" Lockwasher
(18) NU0616, ⅜" Hex Nut
(3) OR2340S, O-RING, 3⅜" I.D. X 3⁄16" Thick
(2) GREASE

(3) CL3067, 3⅜" X 14'-8" Long Flexible Heliax

(3) CE3022, 3⅜" Mitered Coaxial Elbow
(Hardware allows for connection to 3⅜" Flexible Heliax & Bay Level Divider
(18) SC0616H0150, ⅜"-16 x 1½" Long Hex Bolt
(18) SC0616H0087, ⅜"-16 x ⅞" Long Hex Bolt
(36) WL0655, ⅜" Lockwasher
(36) NU0616, ⅜" Hex Nut
(6) OR2340S, O-RING, 3⅜" I.D. X 3⁄16" Thick
(3) GREASE

(1) PD6333Q, Main Power Divider
(12) SC0616H0175, ⅜"-16 x 1¾" Long Hex Bolt
(12) WL0655, ⅜" Lockwasher
(12) NU0616, ⅜" Hex Nut
(1) OR2438S, O-RING, 6¾" I.D. X ¼" Thick
(1) GREASE

(1) CL6031, 6¾" X 6" Matching Section
(12) SC0616H0175, ⅜"-16 x 1¾" Long Hex Bolt
(12) WL0655, ⅜" Lockwasher
(12) NU0616, ⅜" Hex Nut
(2) OR2438S, O-RING, 6¾" I.D. X ¼" Thick
(1) GREASE

BRACKETRY:

(9) Antenna Bay Mounting Brackets, (3) BT-1, (3) BT-2 & (3) BT-3
(72) UB0616-0550, ⅜"-16 x 5½" C-C U-Bolt
(144) WL0655, ⅜" Lockwasher
(144) WF0855, ⅜" Flatwasher
(144) NU0616, ⅜"-16 Hex Nut

(9) Hybrid Mounting Angle, BT1-A
(18) SC0616H0075, ⅜"-16 x ¾" Long Hex Bolt
(18) WL0655, ⅜" Lockwasher
(18) WF0655, ⅜" Flatwasher
(18) HC0064, #64 HOSE CLAMP
(18) SMT0006-300, 3" x 3" Triangular Stainless Shim

(9) Bay Divider Mount Brackets, (6) BT-5 & (3) BT-6
(18) UB0813-0562GA, ½"-13 x 5⅝" C-C Galvanized U-Bolt
(18) HC0048, #48 Hose Clamp

(4) Main Divider Mount Brackets, BT-4
(8) UB0813-0562GA, ½"-13 x 5⅝" C-C Galvanized U-Bolt
(16) HC0096, #96 Hose Clamp

MISCELLANEOUS:

(9) Reflecting Panel, RP-1
(96) HC0036, #36 Hose Clamp
(222) GC0037B, ⅜" Split Bolt (Bronze)

ELECTRONICS RESEARCH, INC.
Established 1943
7777 GARDNER RD.
CHANDLER, IN. 47610-9637
PHONE: (812) 925-6000
FAX: (812) 925-4026

NO	REVISION	APP'D	DATE
6			
5			
4			
3			
2			
1			

NAME INSTALLATION DETAILS
STATION WNOU — INDIANAPOLIS, IN.
FREQUENCY SEE NOTES PROJECT NO. 09680A/1
PATH G:\DRAFTING\ALL\PROJECTS\09680A
FILE 1A — 7 DRAWN R.R.H. FACTOR AS LISTED
DATE 12/2/02 APP'D
MODEL 1083-3CP 1A — 7
DWG. NO.

A-2 ERI Antenna Specification Sheet
INDIANAPOLIS, INDIANA

General Specifications

Antenna Type . . . . . High Power FM-Broadcast, Suitable For Diplexing
Model Number 1083-3CP
Number Of Bay Levels . . . . . Three
Polarization . . . . . Right Hand Circular

Electrical Specifications

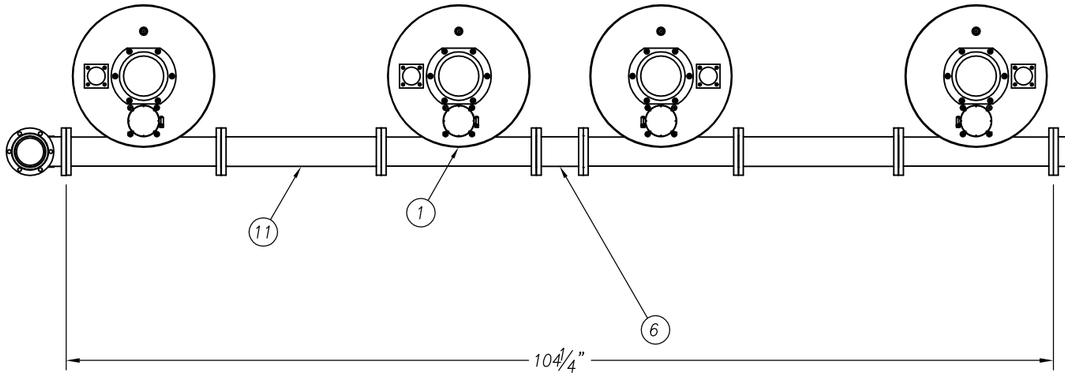
Antenna Input Power Capability . . . . . 90 KW. Maximum (1)
Operating Frequency Band . . . . . 93.1 And 95.5 Megahertz.
VSWR . . . . . 1.15 : 1 @ Operating Frequencies.(2)
Azimuthal Pattern Circularity . . . . . +/- 2dB From RMS (Free Space)
Power Split . . . . . 50/50 (Horizontal & Vertical)
Quarter Wave Shorting Stub . . . . . NA
Frequency Specific Information:

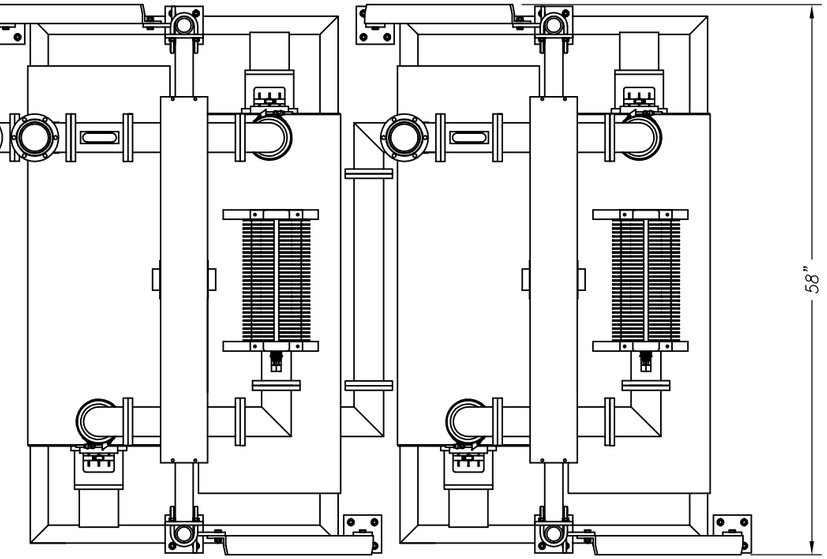
Frequency	Station ERP	Beam Tilt	First Null Fill	Second Null Fill	Power Gain	Line Loss (3)	Filter Loss (4)	Computed TPO
93.1	**13.0 (KW)**	**0.0°**	**0.0 %**	**0.0%**	**1.380**	**1.236 dB**	**.271 dB**	**13.32 (KW)**
95.5	**13.0 (KW)**	**0.0°**	**0.0 %**	**0.0%**	**1.406**	**1.225 dB**	**.309 dB**	**13.16 (KW)**

Mechanical Specifications

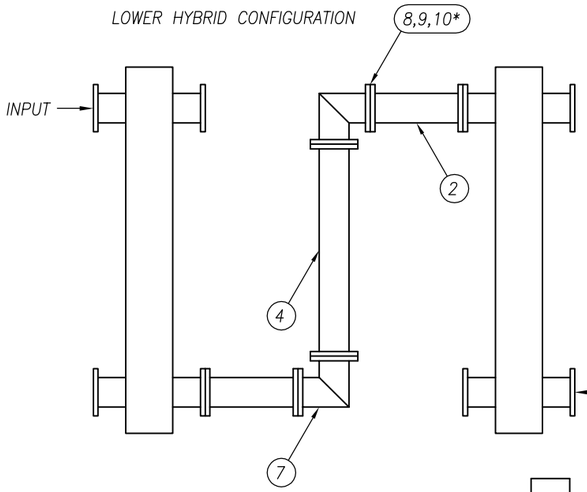
Antenna Feed System . . . . . Fed With Single Feed Line
Input Connector . . . . . 6 1/8 " 50- Ohm EIA Flanged
Element Deicing . . . . . Not Ordered (5)
Interbay Spacing . . . . . 100 Inch Center to Center
Array Length . . . . . 26 Feet
Construction Material (Antenna) . . . . . All Noncorrosive
Construction Material (Mounting) . . . . . Galvanized Plated Steal and Stainless Steel
Mounting . . . . . Tower

1) Power Capability Has Been Rated Assuming An Operating Transmission VSWR Of 1.5:1
2) VSWR Specification Achieved After On Site Tuning For User Specific Frequencies.
3) Line Loss Assumes A Feed Run Of 965 Feet, 4" Andrew Type HJ11-50 Flex, and 100 Feet, Myat Type 401 Rigid 4 1/16" Coax From The Output Of The Combiner To The Antenna. Each Transmitter Incorporates One (1) 3" Motorized Coax Switch And 3" Rigid Coax Between The Filter And Multiplexer. 60 Feet For 93.1 MHz.,And 35 Feet For 95.5 Mhz.
4) Losses Taken From Actual Multiplexer Measurements.
5) With Low Q Element Design, Moderate Icing Will Not Cause Appreciable VSWR Rise.





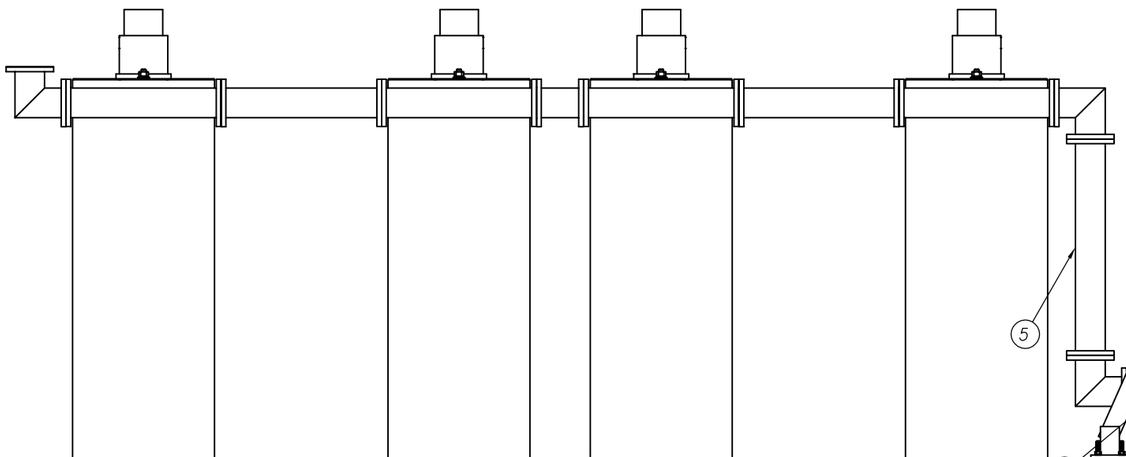
LOWER HYBRID CONFIGURATION

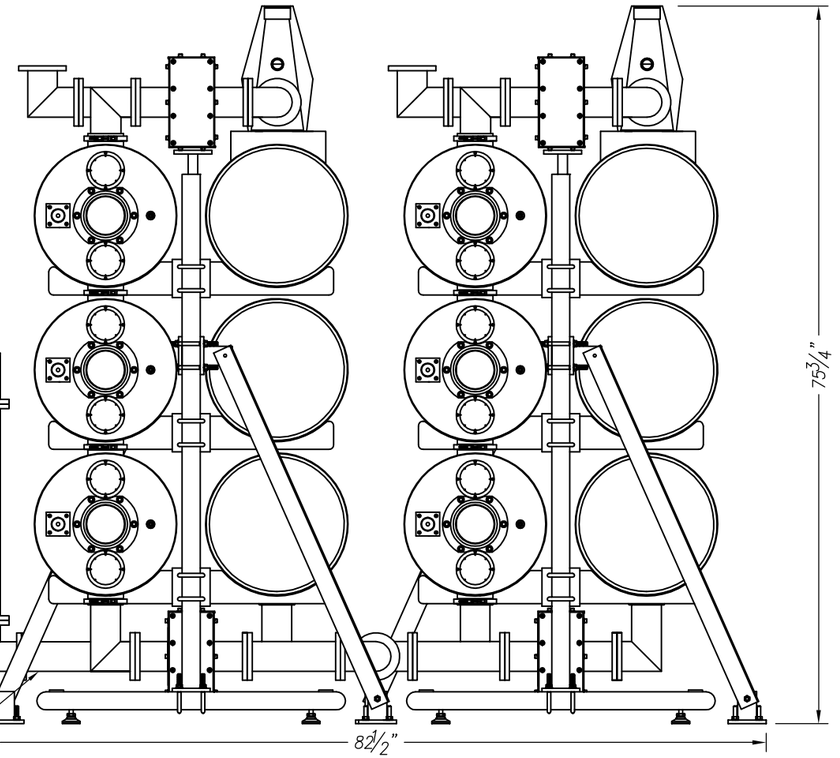


BILL OF MATERIALS

NO.	STOCK NO.	DESCRIPTION	REQ'D
1	FI0050	945 TYPE NOTCH FILTER	4
2	CL3182-50A	3 ⅛", 50 OHM COAXIAL LINE X 9 13⁄16" LONG, RFF-RFF	2
3	CL3182-50A	3 ⅛", 50 OHM COAXIAL LINE X 12" LONG, RFF-RFF	1
4	CL3182-50A	3 ⅛", 50 OHM COAXIAL LINE X 22 ⅜" LONG, RFF-RFF	1
5	CL3182-50A	3 ⅛", 50 OHM COAXIAL LINE X 22 ⅞" LONG, RFF-RFF	1
6	CL3068	3 ⅛", 50 OHM COAXIAL LINE X 5" LONG, RFF-RFF	1
7	CE3022	3 ⅛", 50 OHM 90° MITERED COAXIAL ELBOW	5
8	SC0616H0150	⅜"-16 X 1 ½" LONG HEX HEAD BOLT	112
9	WL06SS	⅜" LOCKWASHER	112
10	NU0616	⅜" HEX NUT	112
11	CL3182-50A	3 ⅛", 50 OHM COAXIAL LINE X 17" LONG, RSF-RFF	2

*ALL 3 ⅛" CONNECTIONS ADJOINED WITH TYPICAL HARDWARE





NOTE: ALL DIMENSIONS GIVEN ARE APPROXIMATE

ELECTRONICS RESEARCH, INC.
Established 1943
7777 GARDNER RD.
CHANDLER, IN. 47610-9637
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NAME SYSTEM ASSEMBLY
FOR 09680A - INDIANAPOLIS, IN.
PATH G:\DRAFTING\ALL\PROJECTS\09680A\2
FILE IM-5 | DRAWN R.R.H. | FACTOR 1/16
DATE 8/8/02 | APP'D | S-WI
MAT'L N/A | CUT N/A
DWG. NO.

ELECTRONICS RESEARCH,INC.
7777 GARDNER ROAD
CHANDLER, IN. 47610

FIGURE 1

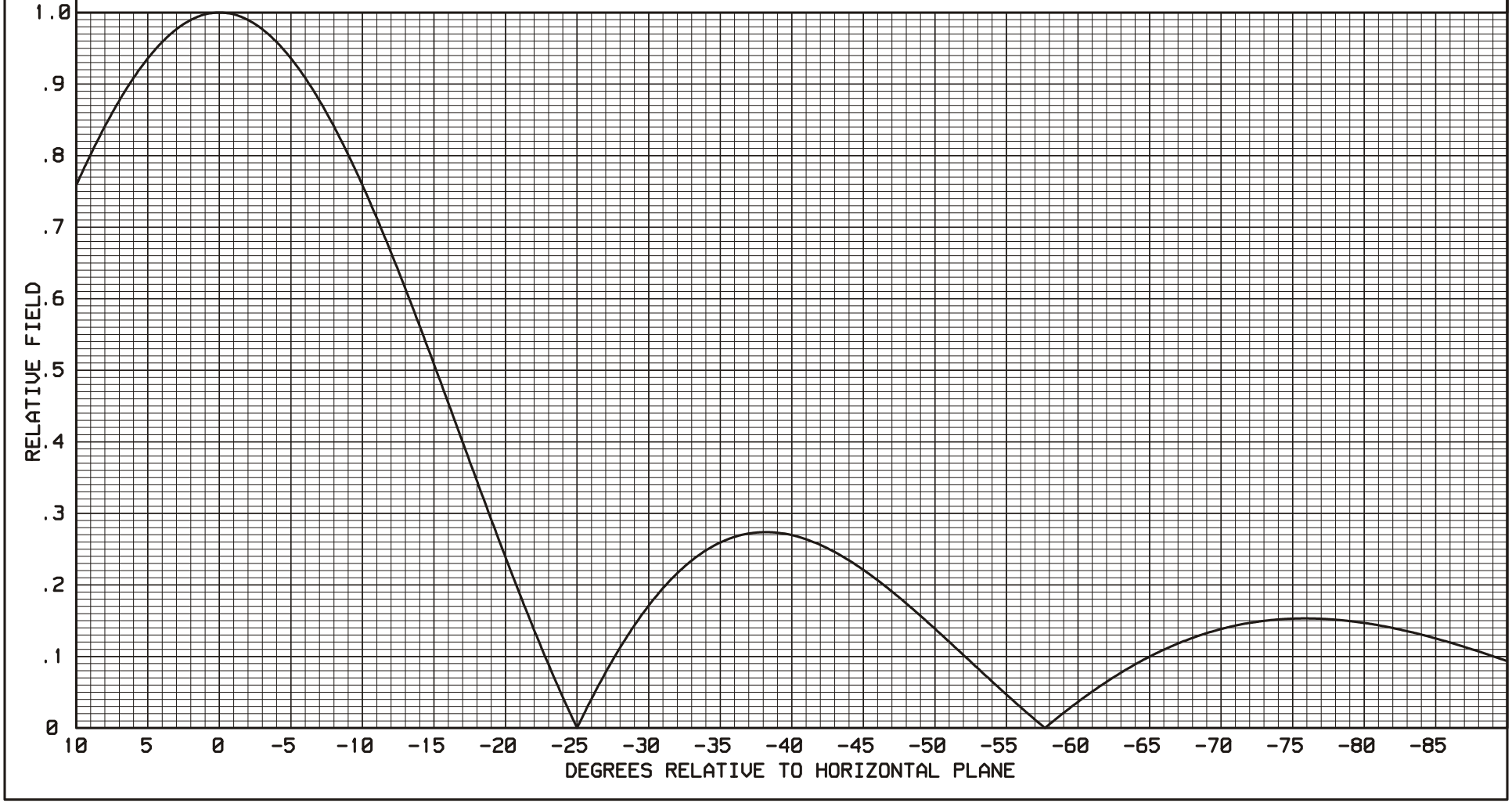
----THEORETICAL----
VERTICAL PLANE RELATIVE FIELD

3 LEVELS OF TYPE 1080 ELEMENTS
+0.00 DEGREE(S) BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL
POWER GAIN IS 1.380 IN THE HORIZONTAL PLANE(1.380 IN THE MAX.)
[POWER GAINS AT 95% ANTENNA EFFICIENCY]

SEPTEMBER 11, 2002

93.1 MHz.

BAY SPACING:
100.00 INCHES
(.7888 WAVELENGTH)



ELECTRONICS RESEARCH,INC.
7777 GARDNER ROAD
CHANDLER, IN. 47610

FIGURE 2

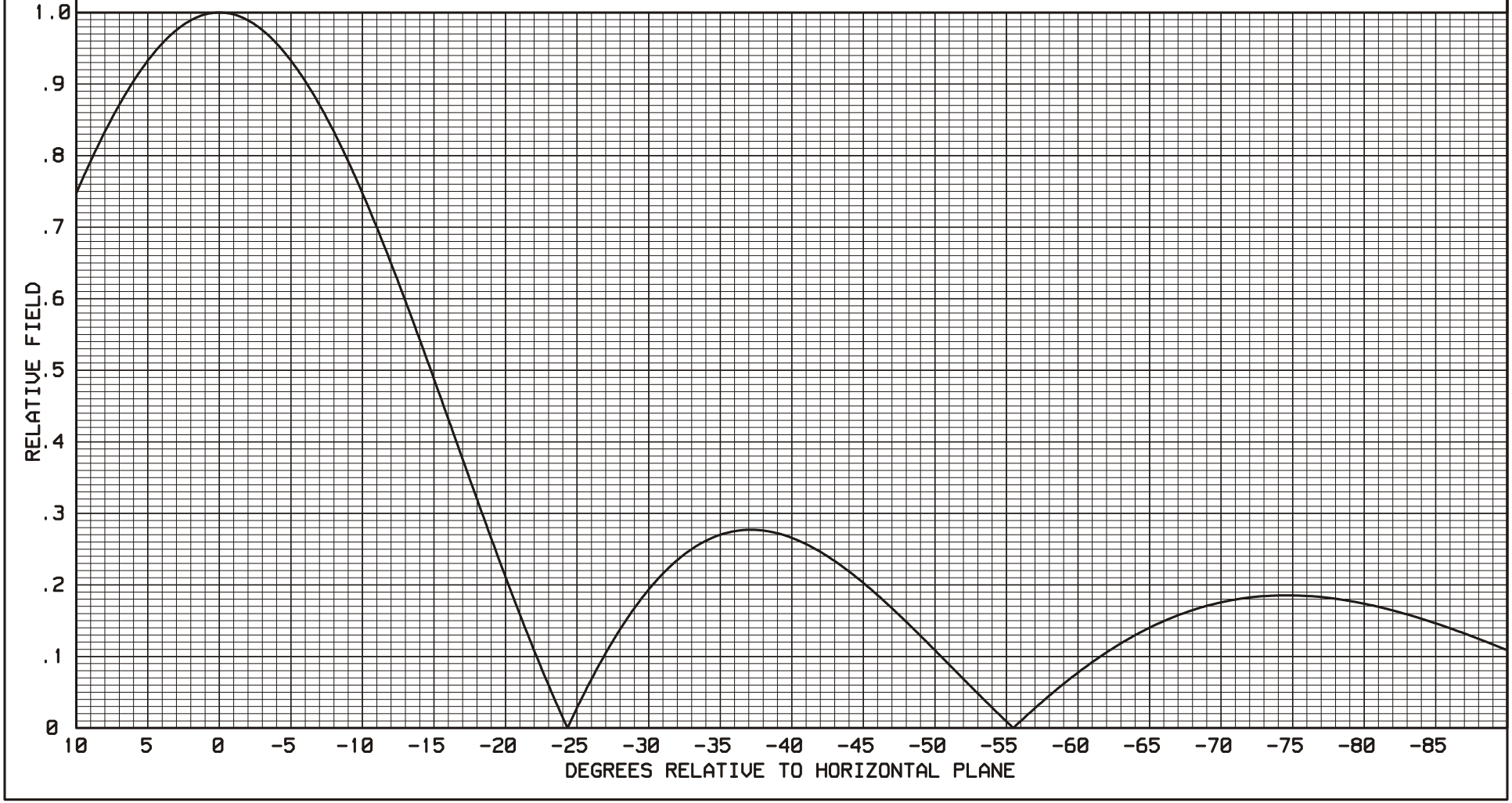
----THEORETICAL----
VERTICAL PLANE RELATIVE FIELD

3 LEVELS OF TYPE 1080 ELEMENTS
+0.00 DEGREE(S) BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL
POWER GAIN IS 1.406 IN THE HORIZONTAL PLANE(1.406 IN THE MAX.)
[POWER GAINS AT 95% ANTENNA EFFICIENCY]

SEPTEMBER 11, 2002

95.5 MHz.

BAY SPACING:
100.00 INCHES
(.8091 WAVELENGTH)



WNOU ~ WFMS Broadcasting Scheme EXHIBIT - B1

FM TRANSMITTERS

WNOU 93.1 MHz.
WFMS 95.5 MHz.

COMBINER
ELECTRONICS RESEARCH

960-6 @ 93.1 MHz.
960-6 @ 95.5 MHz
(See Exhibit A - 3)

ERI, 6 1/8"
RF Directional Coupler

Forward RF
Sample

ANTENNA
ELECTRONICS RESEARCH

MODEL 1083-3 SP
(See Exhibit A - 1)

Equipment Employed in Intermodulation Measurements
Exhibit B - 2

CALIBRATION SOURCE
1) Potomac Instruments ; Model FIM-71, Field Strength Meter
2) Wavetek Inc. ; Model 3000, Frequency Generator

SPECTRUM ANALYZER
Anritsu; Sitemaster Model S114B
Spectrum Analyzer

BAND PASS FILTER
PHELPS DODGE
ADJUSTABLE RANGE 76~120 MHz.

Attenuator
(If used)

RF VOLT METER
Potomac Instruments ; Model FIM-71
Field Strength Meter

Note *
All RF Connecting Cable Used In
Measurement Setup Is Double Shielded.

Broadcasting Scheme and Equipment Employed in Intermodulation Measurements

EXHIBIT B