

EXHIBIT 10.0
(Page 1 of 24)

SPECIAL OPERATING CONDITION
WERE(AM) - CLEVELAND, OH
Infinity Radio, Inc.
Cleveland, OH

The WQAL construction permit, which authorizes the shared use of a common antenna with WNCX(FM) - Cleveland, Ohio, includes a special operating condition requiring that partial proofs of performance be conducted on the directional antenna system of WERE(AM) - Cleveland, Ohio both prior to and subsequent to the construction of the modified WQAL facilities. Although the “before” partial proof of performance measurements were conducted on WERE prior to the installation of the new common antenna for use by WQAL and WNCX, it was not possible to generate a meaningful comparison between “before” and “after” measurements on WERE due to the fact that WERE was in the process of making repairs to its antenna system and sample system prior to and during the period of time when the new WQAL/WNCX antenna system was installed. For this reason, no “before” partial proof of performance measurements are included as part of this exhibit. Instead, it includes a copy of the engineering portion of an application for direct measurement of power which is being filed by WERE following the completion of their repairs and a minor readjustment of their directional pattern and documents that the WERE directional pattern is in proper adjustment following the completion of these repairs and the installation of the new WQAL/WNCX antenna system.

Based upon this information, it is obvious that the installation of the new WQAL/WNCX antenna system has not had any adverse impact on the WERE directional pattern. Thus, WQAL has satisfied the intent of this special operating condition with regard to WERE.

**COPY OF ENGINEERING PORTION OF
WERE 302-AM APPLICATION FOR
DIRECT MEASUREMENT OF POWER**

ENGINEERING EXHIBIT E-2

APPLICATION FOR DIRECT
MEASUREMENT OF POWER
WERE(AM) - CLEVELAND, OH

Blue Chip Broadcasting Licenses, Ltd.
Cleveland, OH

August 31, 2005

Prepared For: Mr. Al Kazlauckas
Radio Station WERE
2510 St. Clair Ave.
Cleveland, OH 44114

CARL E. SMITH CONSULTING ENGINEERS

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Elmer L. Steingass

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SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

Blue Chip Broadcasting Licenses, Ltd.

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

☐

Station License

☒

Direct Measurement of Power

1. Facilities authorized in construction permit

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
WERE	N/A	1300	U	Night 5.0	Day 5.0

2. Station location

State OH	City or Town Cleveland
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3. Transmitter location

State OH	County Cuyahoga	City or Town North Royalton	Street address (or other identification) 9466 Ridge Road
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4. Main studio location

State OH	County Cuyahoga	City or Town Cleveland	Street address (or other identification) 2510 St. Clair Ave.
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5. Remote control point location (specify only if authorized directional antenna)

State OH	County Cuyahoga	City or Town Cleveland	Street address (or other identification) 2510 St. Clair Ave.
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6. Has type-approved stereo generating equipment been installed?

☐

Yes

☒

No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68?

☒

Yes

☐

No

☐

Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

On File - No Change

Exhibit No.

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system 10.4 A		RF common point or antenna current (in amperes) without modulation for day system 10.4 A	
Measured antenna or common point resistance (in ohms) at operating frequency Night 50.0 Day 50.0		Measured antenna or common point reactance (in ohms) at operating frequency Night -j 13.0 Day -j 13.0	

Antenna indications for directional operation

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day
1	-46.0	-46.0	0.24	0.24		
2	+157.0	+157.0	0.80	0.80	NO	LONGER
3	0.0	0.0	1.00	1.00	REQUIRED	
4	-144.0	-144.0	0.71	0.71		

Manufacturer and type of antenna monitor:

Potomac Instruments AM-19D (210) S/N 869

9. Description of antenna system ((if directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.))

Type Radiator Tapered self supporting square cross section steel towers	Overall height in meters of radiator above base insulator, or above base, if grounded. 128.0 m	Overall height in meters above ground (without obstruction lighting) #1-128.2 m, #2-128.5 m, #3-128.2 m, #4-128.3 m	Overall height in meters above ground (include obstruction lighting) #1-129.1 m, #2-129.4 m, #3-129.1 m, #4-129.1 m	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. Exhibit No. N/A
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Excitation



Series



Shunt

ASRN: #1 - 1045174, #2 - 1045175
#3 - 1045176, #4 - 1045177

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	41° 20' 28"	West Longitude	81° 44' 20"
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If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.

On File - No Change

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.

On File - No Change

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

N/A

11. Give reasons for the change in antenna or common point resistance.

Repairs to sample system and subsequent readjustment of directional pattern.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type) Elmer L. Steingass	Signature (check appropriate box below) 
Address (include ZIP Code) 2324 N. Cleveland-Massillon Road P.O. Box 807 Bath, OH 44210-0807	Date 8/31/05
	Telephone No. (Include Area Code) 330/659-4440

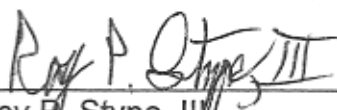
- | | |
|---|---|
| <input type="checkbox"/> Technical Director | <input type="checkbox"/> Registered Professional Engineer |
| <input type="checkbox"/> Chief Operator | <input checked="" type="checkbox"/> Technical Consultant |
| <input type="checkbox"/> Other (specify) | |

ENGINEERING AFFIDAVIT

State of Ohio)
) ss:
County of Summit)


Roy P. Stype, III, being duly sworn, deposes and states that he is a graduate Electrical Engineer, a qualified and experienced Communications Consulting Engineer whose works are a matter of record with the Federal Communications Commission and that he is a member of the Firm of "Carl E. Smith Consulting Engineers" located at 2324 North Cleveland-Massillon Road in the Township of Bath, County of Summit, State of Ohio, and that the Firm has been retained by Blue Chip Broadcasting Licenses, Ltd. to prepare the attached "Engineering Exhibit E-2."

The deponent states that the Exhibit was prepared by him or under his direction and is true of his own knowledge, except as to statements made on information and belief and as to such statements, he believes them to be true.



Roy P. Stype, III

Subscribed and sworn to before me on **August 31, 2005**.



Notary Public

/SEAL/

NANCY A. ADAMS, Notary Public
Residence - Cuyahoga County
State Wide Jurisdiction, Ohio
My Commission Expires Sept. 5, 2006

ENGINEERING AFFIDAVIT

State of Ohio)
) ss:
County of Summit)

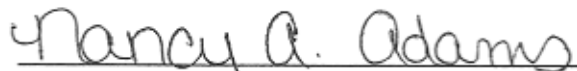
Elmer L. Steingass, being duly sworn, deposes and states that he is a qualified and experienced Communications Consulting Engineer whose works are a matter of record with the Federal Communications Commission and that he is a member of the Firm of "Carl E. Smith Consulting Engineers" located at 2324 North Cleveland-Massillon Road in the Township of Bath, County of Summit, State of Ohio, and that the Firm has been retained by Blue Chip Broadcasting Licenses, Ltd. to prepare the attached "Engineering Exhibit E-2."

The deponent states that the Exhibit was prepared by him or under his direction and is true of his own knowledge, except as to statements made on information and belief and as to such statements, he believes them to be true.



Elmer L. Steingass

Subscribed and sworn to before me on **August 31, 2005**.


Notary Public

NANCY A. ADAMS, Notary Public
Residence - Cuyahoga County
State Wide Jurisdiction, Ohio
My Commission Expires Sept. 5, 2005

/SEAL/

ENGINEERING STATEMENT

1.0 GENERAL

This engineering exhibit is prepared on behalf of Blue Chip Broadcast Licenses, Ltd, licensee of Radio Station WERE - Cleveland, Ohio, in support of an application for direct measurement of power. It details the results of a partial proof of performance which was conducted on the WERE directional pattern following repairs that were made to the WERE sample system.

WERE presently operates unlimited time on 1300 kHz at a power level of 5 kilowatts using the same four tower directional pattern for both daytime and nighttime operation. WERE utilizes a type approved sample system to monitor the adjustment of this directional pattern. Repairs were recently made to the WERE sample system. These repairs consisted of the replacement of a section of the sample line that runs between the sample loop and the isolation coil on Tower #3 of the WERE antenna system and the repair of several of the connectors in the sample system. The replacement line section is identical in length and type to the original section of line which it replaced. Since these repairs made no electrical changes to this sample system, this type approval should remain valid.

Following the completion of these repairs a minor readjustment was made to the WERE directional pattern and a subsequent partial proof of performance was conducted on each monitor point radial that was measured in the 1984 full proof of performance. The results of this partial proof of performance, contained in Section 2.0 of this exhibit, show that the measured inverse field on each radial does not exceed the standard pattern limit for that radial.

New common point impedance measurements were conducted on the WERE directional antenna system following the completion of the pattern readjustment. The results of these impedance measurements are contained in Section 3.0 of this exhibit.

Although no changes were made to the locations of the WERE monitor points, Section 4.0 of this exhibit contains an updated description for the monitor point on the 222° radial, which reflects changes to the geography in the vicinity of this monitor point. All other monitor point descriptions remain unchanged.

The geographic coordinates listed in Paragraph 9 of FCC Form 302-AM, Section III differ from the geographic coordinates presently specified on the WERE station license by one second of longitude. This difference does not reflect a change in the location of the WERE antenna system, but rather a correction of the geographic coordinates for the center of this antenna system to agree with the center of array coordinates specified in the Antenna Structure Registrations for the four towers that comprise this antenna system. Since this difference is less than three seconds of latitude and three seconds of longitude, Section 73.1690(c)(11) of the FCC Rules permits this coordinate correction to be reported in the context of a license modification application without the need to first obtain a construction permit.

The attached application also serves to modify the tower numbering of the four towers that comprise the WERE directional antenna system to correspond to the tower numbering scheme used in the CDBS and the antenna structure registrations for these towers. Historically, since this antenna system was constructed in 1949, the WERE towers have been numbered from north (#1) to south (#4). The operating parameters contained in Paragraph 8 of FCC Form 302-AM, Section III, however, now number

these towers from south (#1) to north (#4), in agreement with the numbering scheme utilized in the CDBS and the individual antenna structure registrations for these towers.

As shown by the data contained herein, the WERE directional pattern is in proper adjustment and in substantial agreement with its previously licensed facilities. The station has therefore resumed the determination of its operating power by the direct method.

2.0 FIELD STRENGTH MEASUREMENTS

Partial proof of performance measurements were conducted on each monitor point radial that was measured in the WERE 1984 full proof of performance. These field strength measurements were conducted in the directional mode of operation and consisted of at least ten points on each radial, where possible.

The directional measurements were then analyzed against the 1984 directional measurements using log ratio analysis techniques. The calculated log ratio for each radial was then multiplied by the radial's 1984 directional inverse field strength to obtain the current measured inverse field strength for each radial.

Tables 2.0 through 2.4 present the measurements and log ratio analysis for each radial. Table 2.5 is a tabulation of the log ratio for each radial, the 1984 directional inverse field strength for each radial, and the directional inverse field strength measured in this proof. The standard pattern limit for each radial is also tabulated in this table, showing that the measured field strength does not exceed the limit on any radial.

TABLE 2.0
WERE DIRECTIONAL
FIELD STRENGTH MEASUREMENTS
117.00 DEGREE RADIAL

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

(1)	(2)	(3)	(4)	(5)
POINT	DISTANCE	1984 DIRECTIONAL FIELD STRENGTH	PRESENT DIRECTIONAL FIELD STRENGTH	LOG RATIO
	(mi)	(mV/m)	(mV/m)	(4)/(3)
19-MP	2.31	4.500	8.100	0.2553
20	3.00	7.100	6.100	-0.0659
21	3.30	6.200	11.000	0.2490
22	3.88	3.800	7.000	0.2653
23	4.26	1.700	6.500	0.5825
24	4.67	1.500	4.450	0.4723
25	5.08	2.100	2.950	0.1476
27	6.68	1.270	1.700	0.1266
28	7.41	1.300	1.150	-0.0532
30	8.40	0.470	0.670	0.1540
31	8.50	1.300	0.700	-0.2688

LOG AVERAGE: 1.4774

ALL POINTS MEASURED ON 8/9/05 BETWEEN THE HOURS OF 1108 AND 1232
EDT BY DEREK GORMAN USING POTOMAC INSTRUMENTS FIM-41 S/N 1396.
THIS FIELD INTENSITY METER WAS LAST CALIBRATED ON JANUARY 28, 1999

TABLE 2.1
WERE DIRECTIONAL
FIELD STRENGTH MEASUREMENTS
213.00 DEGREE RADIAL

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

(1)	(2)	(3)	(4)	(5)
POINT	DISTANCE	1984 DIRECTIONAL FIELD STRENGTH	PRESENT DIRECTIONAL FIELD STRENGTH	LOG RATIO
	(mi)	(mV/m)	(mV/m)	(4)/(3)
17-MP	2.00	16.500	14.000	-0.0714
18	2.18	15.500	14.500	-0.0290
19	2.85	10.000	9.500	-0.0223
20	3.03	13.000	10.500	-0.0928
21	3.11	10.500	9.500	-0.0435
22	4.10	4.000	3.500	-0.0580
23	4.38	5.000	4.400	-0.0555
24	4.90	3.500	3.900	0.0470
25	5.42	2.600	2.850	0.0399
26	6.40	2.100	2.200	0.0202
27	6.91	1.900	1.950	0.0113
28	7.37	1.400	1.750	0.0969

LOG AVERAGE: 0.9703

ALL POINTS MEASURED ON 8/9/05 BETWEEN THE HOURS OF 1400 AND 1523
EDT BY DEREK GORMAN USING POTOMAC INSTRUMENTS FIM-41 S/N 1396.
THIS FIELD INTENSITY METER WAS LAST CALIBRATED ON JANUARY 28, 1999

TABLE 2.2
WERE DIRECTIONAL
FIELD STRENGTH MEASUREMENTS
222.00 DEGREE RADIAL

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

(1)	(2)	(3)	(4)	(5)
POINT	DISTANCE	1984 DIRECTIONAL FIELD STRENGTH	PRESENT DIRECTIONAL FIELD STRENGTH	LOG RATIO
	(mi)	(mV/m)	(mV/m)	(4)/(3)
18	2.35	4.500	12.000	0.4260
19	2.72	2.000	6.600	0.5185
20-MP	3.02	3.700	7.500	0.3069
21	3.42	2.450	2.900	0.0732
22	4.68	0.800	1.850	0.3641
23	4.82	0.700	1.950	0.4449
24	5.42	1.450	2.050	0.1504
26	7.80	0.340	1.400	0.6146
27	8.86	0.540	1.250	0.3645
28	9.55	0.430	1.100	0.4079
29	10.67	0.550	0.440	-0.0969

LOG AVERAGE: 2.1131

ALL POINTS MEASURED ON 8/9/05 BETWEEN THE HOURS OF 1413 AND 1545
EDT BY DEREK GORMAN USING POTOMAC INSTRUMENTS FIM-41 S/N 1396.
THIS FIELD INTENSITY METER WAS LAST CALIBRATED ON JANUARY 28, 1999

TABLE 2.3
WERE DIRECTIONAL
FIELD STRENGTH MEASUREMENTS
285.00 DEGREE RADIAL

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

(1)	(2)	(3)	(4)	(5)
POINT	DISTANCE	1984 DIRECTIONAL FIELD STRENGTH	PRESENT DIRECTIONAL FIELD STRENGTH	LOG RATIO
	(mi)	(mV/m)	(mV/m)	(4)/(3)
18	2.69	21.000	21.500	0.0102
19	2.86	18.200	18.500	0.0071
20-MP	3.58	11.700	11.000	-0.0268
21	3.95	14.000	16.000	0.0580
22	4.95	10.000	8.600	-0.0655
23	5.55	6.400	4.800	-0.1249
24	6.05	5.800	5.800	0.0000
25	6.60	5.000	1.850	-0.4318
26	7.00	4.600	2.250	-0.3106
28	8.68	4.000	2.000	-0.3010
29	8.89	3.400	1.450	-0.3701

LOG AVERAGE: 0.7221

ALL POINTS MEASURED ON 8/8/05 BETWEEN THE HOURS OF 1633 AND 1732
EDT BY DEREK GORMAN USING POTOMAC INSTRUMENTS FIM-41 S/N 1396.
THIS FIELD INTENSITY METER WAS LAST CALIBRATED ON JANUARY 28, 1999

TABLE 2.4
WERE DIRECTIONAL
FIELD STRENGTH MEASUREMENTS
299.00 DEGREE RADIAL

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

(1)	(2)	(3)	(4)	(5)
POINT	DISTANCE	1984 DIRECTIONAL FIELD STRENGTH	PRESENT DIRECTIONAL FIELD STRENGTH	LOG RATIO
	(mi)	(mV/m)	(mV/m)	(4)/(3)
7-MP	1.10	29.500	24.500	-0.0807
14	2.00	16.000	13.500	-0.0738
17	2.88	5.600	7.200	0.1091
18	3.16	3.500	4.850	0.1417
19	3.77	3.500	3.200	-0.0389
20	4.00	3.100	3.800	0.0884
21	4.42	2.200	2.600	0.0726
22	4.94	5.400	4.100	-0.1196
23	5.56	5.600	3.100	-0.2568
24	6.04	4.500	2.000	-0.3522

			LOG AVERAGE:	0.8892

ALL POINTS MEASURED ON 8/8/05 BETWEEN THE HOURS OF 1519 AND 1607
EDT BY DEREK GORMAN USING POTOMAC INSTRUMENTS FIM-41 S/N 1396.
THIS FIELD INTENSITY METER WAS LAST CALIBRATED ON JANUARY 28, 1999

TABLE 2.5
 TABULATION OF MEASURED
 WERE DIRECTIONAL
 INVERSE FIELD STRENGTHS

 BLUE CHIP BROADCASTING LICENSES, LTD.
 CLEVELAND, OH

RADIAL (Degrees)	1984 DIRECTIONAL INVERSE FIELD (mV/m)		LOG AVERAGE	PRESENT DIRECTIONAL INVERSE FIELD (mV/m)		RADIATION LIMIT (mV/m)	
	(mi)	(km)		(mi)	(km)	(mi)	(km)
117.00	21.0	33.8	1.4774	31.0	49.9	55.1	88.7
213.00	46.0	74.0	0.9703	44.6	71.8	83.5	134.4
222.00	23.0	37.0	2.1131	48.6	78.2	72.0	115.9
285.00	53.0	85.3	0.7221	38.3	61.6	55.0	88.5
299.00	52.0	83.7	0.8892	46.2	74.4	55.0	88.5

3.0 IMPEDANCE MEASUREMENTS

The WERE directional common point impedance measurements were conducted on August 10, 2005, by Derek Gorman, using the equipment shown in Figure 3.0. A Delta Electronics RG-3 receiver/generator was used as the signal source and the bridge detector. A Delta Electronics OIB-1 was used as the bridge. The manufacturer's stated accuracy is $\pm 2\%$, ± 1 ohm.

The WERE directional common point impedance measurements are tabulated in Table 3.1 and plotted in Figure 3.1. While conducting the measurements, the resistance values were read according to the sum of the switch and dial positions on the bridge. The reactance values were also read according to the sum of the switch and dial positions and then corrected by multiplying the reading by the frequency in MHz.

Figure 3.2 is a diagram of the WERE feeder system showing the points at which these impedance measurements were made.

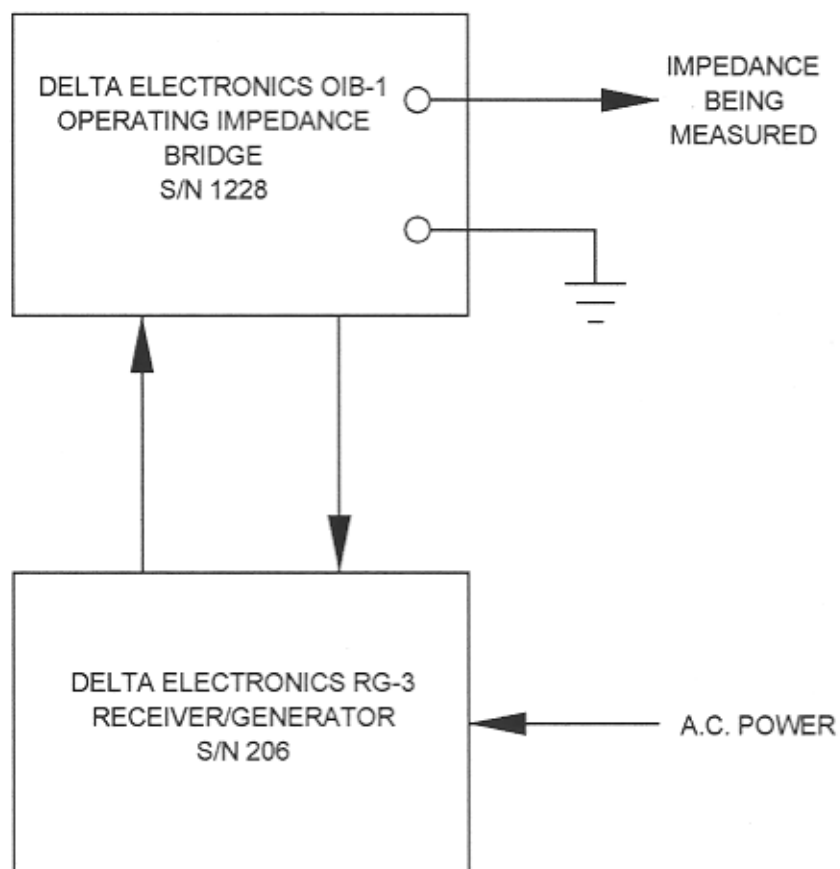


FIG. 3.0

BLOCK DIAGRAM OF
IMPEDANCE MEASURING EQUIPMENT

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

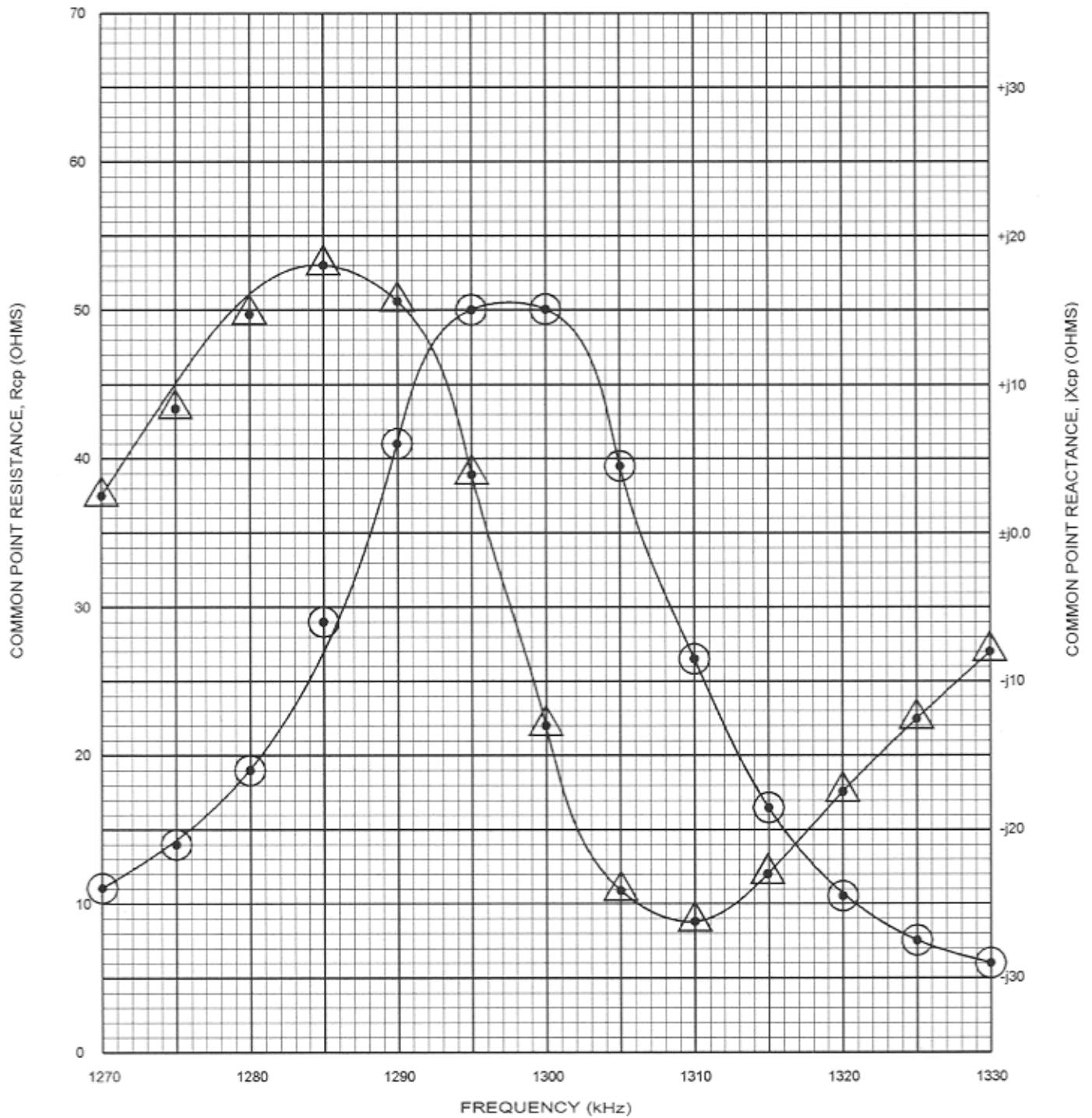
CARL E. SMITH CONSULTING ENGINEERS
2324 N. CLEVE-MASS., RD. BOX 807
BATH, OHIO 44210-0807
(330) 659-4440

TABLE 3.1
WERE DIRECTIONAL COMMON
POINT IMPEDANCE MEASUREMENTS
Blue Chip Broadcast Licenses, Ltd.
Cleveland, OH

Frequency (kHz)	Resistance (ohms)	Reactance (ohms)
1270	11.0	+j2.5
1275	14.0	+j8.3
1280	19.0	+j14.7
1285	29.0	+j18.0
1290	41.0	+j15.5
1295	50.0	+j3.9
*1300	50.0	-j13.0
1305	39.5	-j24.1
1310	26.5	-j26.2
1315	16.5	-j23.0
1320	10.5	-j17.5
1325	7.5	-j12.6
1330	6.0	-j8.0

*Operating frequency

CES-116



● - R_{cp}

▲ - jX_{cp}

$Z_{cp} = 50.0 - j13.0$ OHMS

CARL E. SMITH CONSULTING ENGINEERS
2324 N. CLEVE-MASS RD., BOX 807
BATH, OHIO 44210-0807
(330) 659-4440

FIG. 3.1

WERE DIRECTIONAL COMMON
POINT IMPEDANCE MEASUREMENTS

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

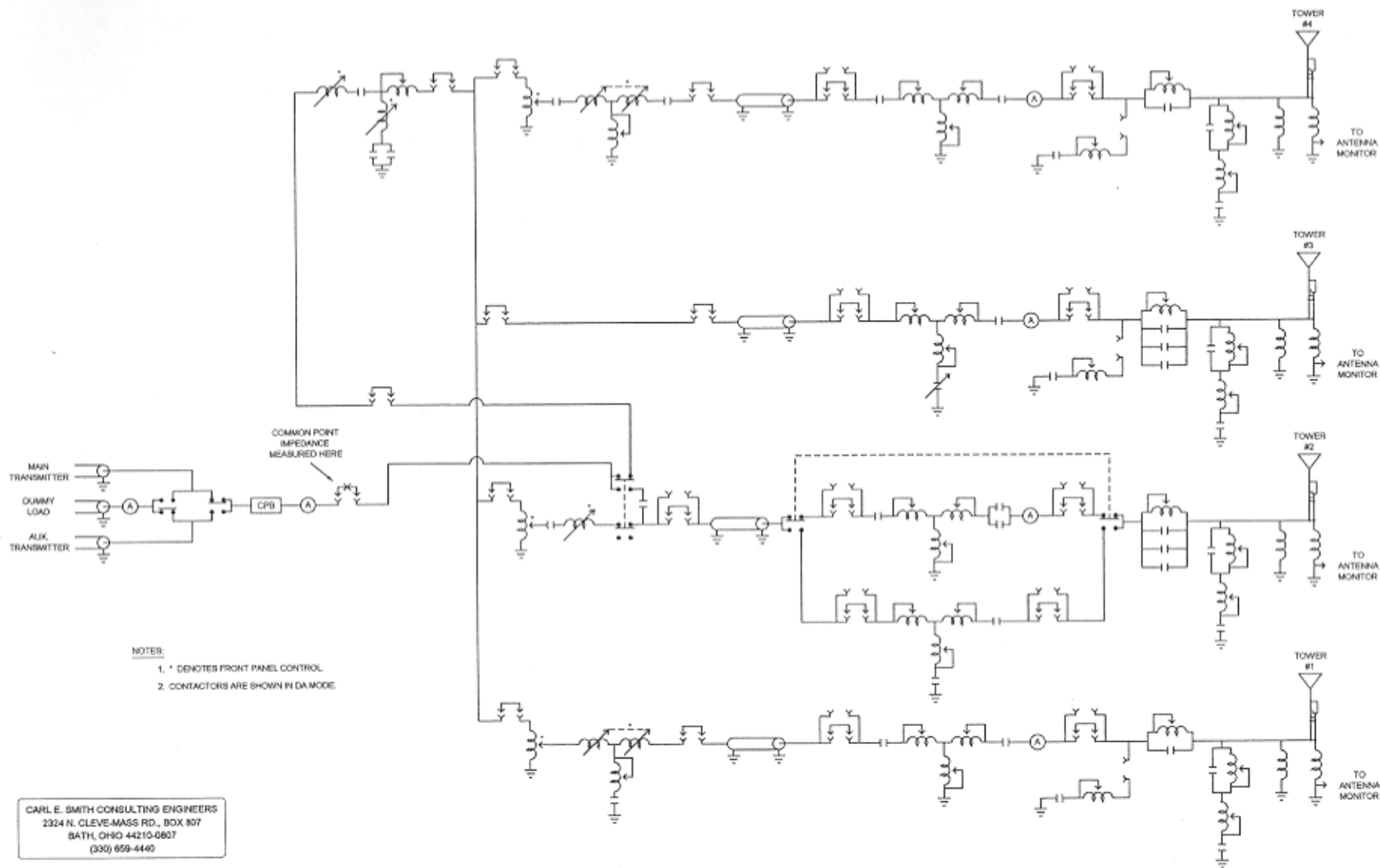


FIG. 3.2
WERE FEEDER SYSTEM
BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

4.0 MONITOR POINTS

WERE is required to maintain monitor points on five radials (117°, 213°, 222°, 285°, 299°) to document the proper adjustment of the directional pattern. No changes were made to the locations of any of these monitor points. Therefore, all descriptions, photographs, and directions contained in the current WERE station license remain valid with the exception of the description of the monitor point on the 222° radial. The present description for this monitor point references 11952 Edgerton Road when describing the location of this point. The house at this location has been torn down and replaced by a new street that leads into a new housing development. For this reason an updated description of this monitor point is provided below. No new photograph of this point is being supplied as the photograph presently on file with the FCC remains valid.

MONITOR POINT - 222° RADIAL

Direction of 222° True. The point is located on the South side of Edgerton Road opposite and 35 feet east of the fire hydrant that sits between Thornton Road and 11968 Edgerton Road. It lies 3.02 miles from the WERE transmitter.