

EXHIBIT 10.2
(Page 1 of 26)

PARTIAL PROOF OF PERFORMANCE
WJMO(AM) - CLEVELAND, OH

Partial proof of performance measurements were conducted on the directional antenna system of WJMO(AM) - Cleveland, Ohio (1300 kHz) both prior to and following the construction of the antenna system for the combined auxiliary facilities of WNCX(FM) and WQAL(FM). These measurements are not being submitted as part of this exhibit, however, because WJMO made repairs to its sample system immediately following the installation of the new WNCX/WQAL auxiliary antenna system. Instead, this exhibit includes a copy of the engineering portion of an application for direct measurement of power which is being filed by WJMO following the completion of these sample system repairs and a minor readjustment of their directional pattern and documents that the WJMO directional pattern is in proper adjustment following both the installation of the new WNCX/WQAL auxiliary antenna system and the completion of these repairs.

Based on this information, it is obvious that the installation of the new WNCX/WQAL antenna system has not had any adverse impact on the WJMO directional pattern. Thus, the intent of the special operating condition included in the WNCX and WQAL construction permits with regard to WJMO has been met.

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

ENGINEERING EXHIBIT E-3

APPLICATION FOR DIRECT
MEASUREMENT OF POWER

WJMO(AM) - CLEVELAND, OH

Blue Chip Broadcasting Licenses, Ltd.
Cleveland, OH

September 4, 2007

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

CARL E. SMITH CONSULTING ENGINEERS

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Elmer L. Steingass
Derek R. Gorman

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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	
WJMO	N/A	1300	U	Night 5.0	Day 5.0
2. Station location					
State OH			City or Town Cleveland		
3. Transmitter location					
State OH	County Cuyahoga	City or Town North Royalton	Street address (or other identification) 9466 Ridge Road		
4. Main studio location					
State OH	County Cuyahoga	City or Town Cleveland	Street address (or other identification) 2510 St. Clair Ave.		
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.		

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.

Exhibit No.
E-3

8. Operating constants:						
RF common point or antenna current (in amperes) without modulation for night system 10.4			RF common point or antenna current (in amperes) without modulation for day system 10.4			
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 6.5 Day -j 6.5			
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	-43.0	-43.0	0.35	0.35		
2	+147.0	+147.0	1.09	1.09	NO	LONGER
3	0.0	0.0	1.00	1.00	REQUIRED	
4	-132.0	-132.0	0.80	0.80		
Manufacturer and type of antenna monitor: Potomac Instruments 1901 (4188) S/N 738						

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) #1-128.2m, #2-128.5m, #3-128.2m, #4-128.3m	Overall height in meters above ground (include obstruction lighting) #1-129.1m, #2-129.4m, #3-129.1m, #4-129.1m	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' 30"
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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.

Refurbishment of 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 9/4/07
	Telephone No. (Include Area Code) 330/659-4440

☐ Technical Director

☐ Registered Professional Engineer

☐ Chief Operator

☒ Technical Consultant

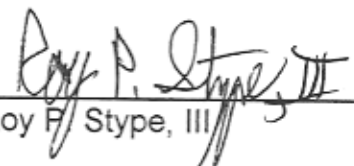
☐ Other (specify)

ENGINEERING AFFIDAVIT

State of Ohio)
) ss:
County of Summit)

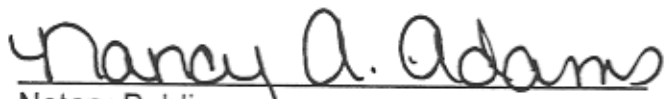
Roy P. Stype, III, being duly sworn, deposes and states that he is a graduate Electrical Engineer, a qualified and experienced Communications Consulting Engineer whose works are a matter of record with the Federal Communications Commission and that he is a member of the Firm of "Carl E. Smith Consulting 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-3."

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 **September 4, 2007**.



Notary Public

/SEAL/


NANCY A. ADAMS, Notary Public
Residence - Cuyahoga County
State Wide Jurisdiction, Ohio
My Commission Expires Sept. 20, 2010

ENGINEERING AFFIDAVIT

State of Ohio)
) ss:
County of Summit)

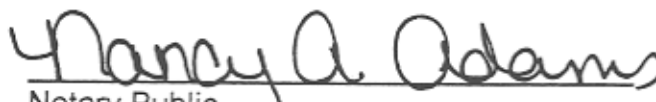
Elmer L. Steingass, being duly sworn, deposes and states that he is a qualified and experienced Communications Consulting Engineer whose works are a matter of record with the Federal Communications Commission and that he is a member of the Firm of "Carl E. Smith Consulting Engineers" located at 2324 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-3."

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 **September 4, 2007**.



Notary Public

NANCY A. ADAMS, Notary Public
Residence - Cuyahoga County
State Wide Jurisdiction, Ohio
My Commission Expires Sept. 20, 2010

/SEAL/

ENGINEERING AFFIDAVIT

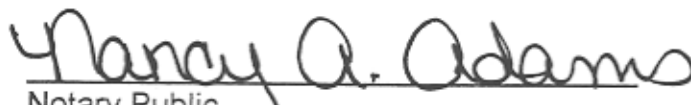
State of Ohio)
) ss:
County of Summit)

Derek R. Gorman, 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-3."

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.


Derek R. Gorman

Subscribed and sworn to before me on **September 4, 2007**.


Notary Public

NANCY A. ADAMS, Notary Public
Residence - Cuyahoga County
State Wide Jurisdiction, Ohio
My Commission Expires Sept. 20, 2010

/SEAL/

ENGINEERING STATEMENT

1.0 GENERAL

This engineering exhibit is prepared on behalf of Blue Chip Broadcasting Licenses, Ltd., licensee of Radio Station WJMO - 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 WJMO directional pattern following the completion of repairs to the WJMO sample system.

WJMO 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. WJMO utilizes a type approved sample system to monitor the adjustment of this directional pattern. While the buried portion of this sample system, which runs from the tower bases to the transmitter building, was retained, the sample loops and the portion of the sample lines located above ground at the towers, including the isolation coils, were replaced. Section 4.0 of this exhibit contains a complete description of the refurbished WMJO sample system. Since this refurbished sample system fully complies with the December 9, 1985 Public Notice concerning the criteria for approval for sample systems for directional AM broadcast stations and Section 73.68(a) of the FCC Rules in effect prior to January 1, 1986, this type approval should remain valid.

Following the completion of this refurbishment, a minor readjustment was made to the WJMO directional pattern and a partial proof of performance was then 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 also conducted on the WJMO directional antenna system following the completion of this pattern readjustment. The results of these impedance measurements are contained in Section 3.0 of this exhibit.

No changes were made to the locations of the WJMO monitor points. For this reason, no descriptions of these monitor points are included in this exhibit, since they are unchanged from those presently on file with the FCC.

As shown by the data contained herein, the WJMO 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 WJMO (formerly 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.

Table 2.0 presents a list of the field strength meters used to conduct these field strength measurements. Tables 2.1 through 2.5 present the measurements and log ratio analysis for each radial. Table 2.6 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

FIELD STRENGTH METER
CALIBRATION INFORMATION
Blue Chip Broadcasting Licenses, Ltd.
Cleveland, OH

<u>Field Strength Meter</u>	<u>Date of Last Calibration</u>
Potomac Instruments FIM-21, S/N 537	April 30, 1999
Potomac Instruments FIM-21, S/N 1021	September 16, 2002

Note: Prior to commencing the WJMO partial proof of performance, these field strength meters were compared with a recently calibrated meter. Close correlation was observed between all meters, thus verifying the accuracy of these field strength meters.

TABLE 2.1
WJMO 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	12.500	0.4437
20	3.00	7.100	5.100	-0.1437
21	3.30	6.200	9.000	0.1619
22	3.88	3.800	7.500	0.2953
23	4.26	1.700	7.400	0.6388
24	4.67	1.500	7.500	0.6990
25	5.08	2.100	2.500	0.0757
27	6.68	1.270	2.300	0.2579
28	7.41	1.300	1.800	0.1413
30	8.40	0.470	0.800	0.2310
31	8.50	1.300	0.790	-0.2163

LOG AVERAGE: 1.7177

ALL POINTS MEASURED ON 8/28/07 BETWEEN THE HOURS OF 1231 AND 1343
EDT BY GREG DARROUGH USING POTOMAC INSTRUMENTS FIM-21 S/N 537.

TABLE 2.2
WJMO 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	29.000	0.2449
18	2.18	15.500	26.500	0.2329
19	2.85	10.000	14.900	0.1732
20	3.03	13.000	16.100	0.0929
21	3.11	10.500	16.000	0.1829
22	4.10	4.000	5.800	0.1614
23	4.38	5.000	6.500	0.1139
24	4.90	3.500	5.400	0.1883
25	5.42	2.600	4.200	0.2083
26	6.40	2.100	2.900	0.1402
27	6.91	1.900	2.350	0.0923
28	7.37	1.400	2.150	0.1863

LOG AVERAGE: 1.4727

ALL POINTS MEASURED ON 8/28/07 BETWEEN THE HOURS OF 1011 AND 1100
EDT BY ROGER STEVENS USING POTOMAC INSTRUMENTS FIM-21 S/N 1021.

TABLE 2.3
WJMO DIRECTIONAL
FIELD STRENGTH MEASUREMENTS
222.00 DEGREE RADIAL

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

(1)	(2)	(3)	(4)	(5)
		1984	PRESENT	
POINT	DISTANCE	DIRECTIONAL	DIRECTIONAL	LOG
	(mi)	FIELD STRENGTH	FIELD STRENGTH	RATIO
		(mV/m)	(mV/m)	(4)/(3)
18	2.35	4.500	13.500	0.4771
19	2.72	2.000	7.500	0.5740
20-MP	3.02	3.700	11.500	0.4925
21	3.42	2.450	4.900	0.3010
22	4.68	0.800	1.850	0.3641
23	4.82	0.700	1.550	0.3452
24	5.42	1.450	1.590	0.0400
25	7.17	0.240	0.720	0.4771
26	7.80	0.340	0.980	0.4597
27	8.85	0.540	0.500	-0.0334
28	9.55	0.430	0.540	0.0989
29	10.67	0.550	0.550	0.0000

LOG AVERAGE: 1.9939

ALL POINTS MEASURED ON 8/28/07 BETWEEN THE HOURS OF 1111 AND 1214
EDT BY ROGER STEVENS USING POTOMAC INSTRUMENTS FIM-21 S/N 1021.

TABLE 2.4
WJMO 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	15.500	-0.1319
19	2.86	18.200	18.000	-0.0048
20-MP	3.58	11.700	10.900	-0.0308
21	3.95	14.000	15.200	0.0357
22	4.95	10.000	9.800	-0.0088
23	5.55	6.400	4.000	-0.2041
24	6.05	5.800	4.500	-0.1102
25	6.60	5.000	1.500	-0.5229
26	7.00	4.600	2.000	-0.3617
27	8.32	1.600	2.000	0.0969
28	8.68	4.000	1.500	-0.4260
29	8.89	3.400	1.200	-0.4523

LOG AVERAGE: 0.6657

ALL POINTS MEASURED ON 8/28/07 BETWEEN THE HOURS OF 1010 AND 1057
EDT BY DORLAN HOPSON USING POTOMAC INSTRUMENTS FIM-21 S/N 537.

TABLE 2.5
WJMO 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	27.000	-0.0385
17	2.88	5.600	10.200	0.2604
18	3.16	3.500	7.100	0.3072
19	3.77	3.500	2.500	-0.1461
20	4.00	3.100	2.000	-0.1903
21	4.42	2.200	2.700	0.0889
22	4.94	5.400	1.700	-0.5019
23	5.56	5.600	3.000	-0.2711
24	6.04	4.500	3.800	-0.0734
25	6.61	2.800	3.200	0.0580
26	7.00	3.200	2.800	-0.0580

LOG AVERAGE: 0.8885

POINTS 7 AND 17-24 MEASURED ON 8/28/07 BETWEEN THE HOURS OF 1115 AND 1209 EDT BY DORLAN HOPSON USING POTOMAC INSTRUMENTS FIM-21 S/N 537.

POINTS 25 AND 26 MEASURED ON 8/28/07 BETWEEN THE HOURS OF 1510 AND 1515 EDT BY DORLAN HOPSON USING POTOMAC INSTRUMENTS FIM-21 S/N 537

TABLE 2.6
TABULATION OF MEASURED
WJMO 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	1.7177	36.1	58.1	55.1	88.7
213.00	46.0	74.0	1.4727	67.7	109.0	83.5	134.4
222.00	23.0	37.0	1.9939	45.9	73.8	72.0	115.9
285.00	53.0	85.3	0.6657	35.3	56.8	55.0	88.5
299.00	52.0	83.7	0.8885	46.2	74.4	55.0	88.5

3.0 IMPEDANCE MEASUREMENTS

The WJMO directional common point impedance measurements were conducted on August 28, 2007 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 WJMO 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 WJMO feeder system showing the points at which these impedance measurements were made.

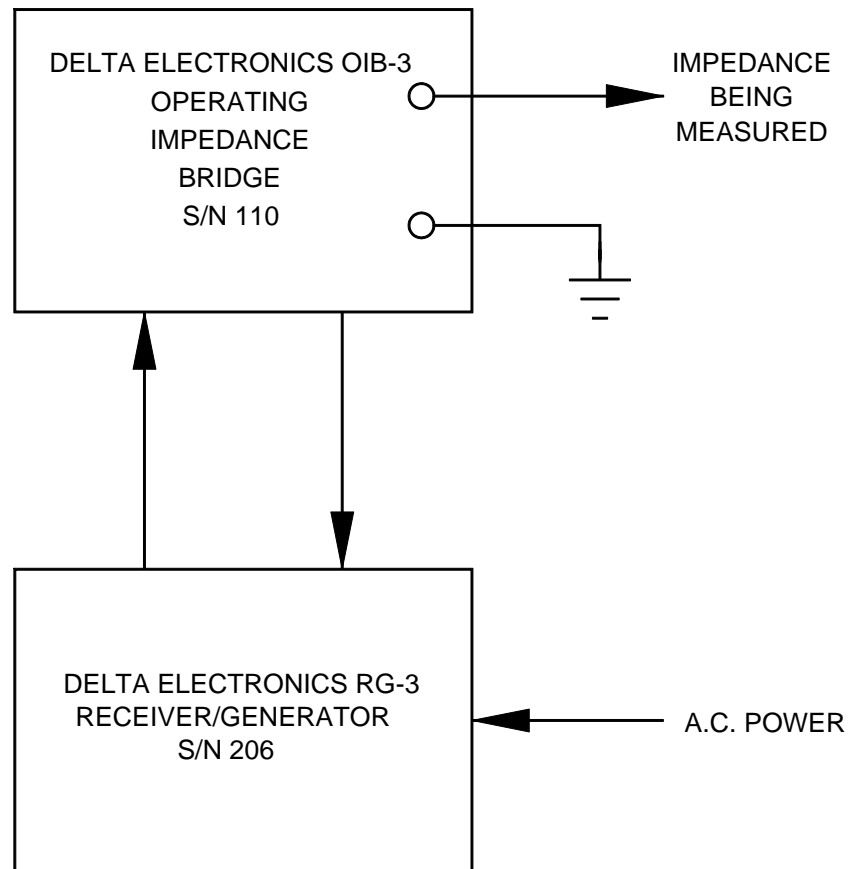


FIG. 3.0

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

BLOCK DIAGRAM OF
IMPEDANCE MEASURING EQUIPMENT

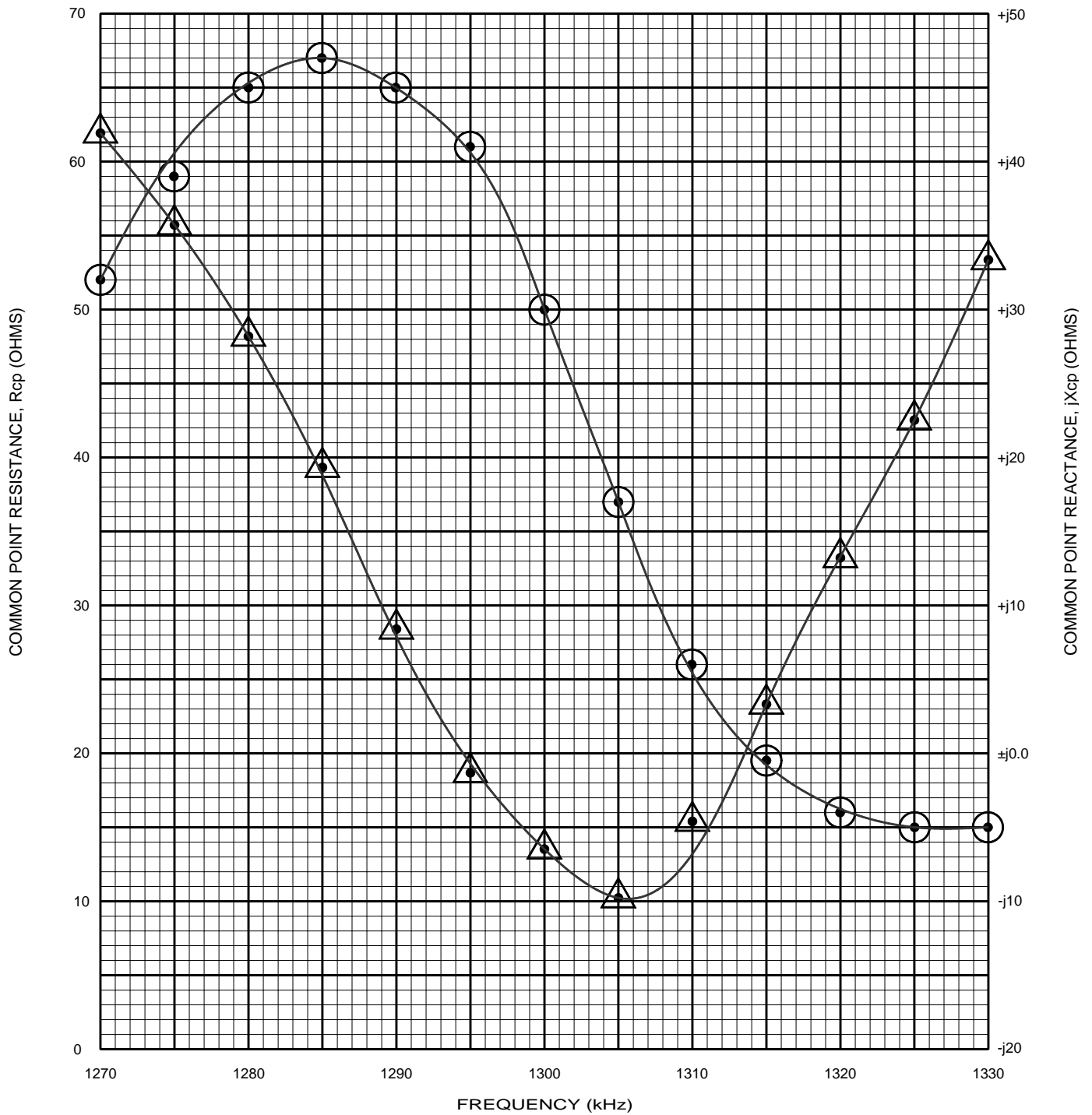
BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

TABLE 3.1

WJMO DIRECTIONAL COMMON
POINT IMPEDANCE MEASUREMENTS
 Blue Chip Broadcasting Licenses, LTD
 Cleveland, OH

Frequency (kHz)	Resistance (ohms)	Reactance (ohms)
1270	52	+j41.9
1275	59	+j35.7
1280	65	+j28.2
1285	67	+j19.3
1290	65	+j8.4
1295	61	-j1.3
*1300	50	-j6.5
1305	37	-j9.8
1310	26	-j4.6
1315	19.5	+j3.3
1320	16	+j13.2
1325	15	+j22.5
1330	15	+j33.3

*Operating frequency



○ - R_{cp}

△ - jX_{cp}

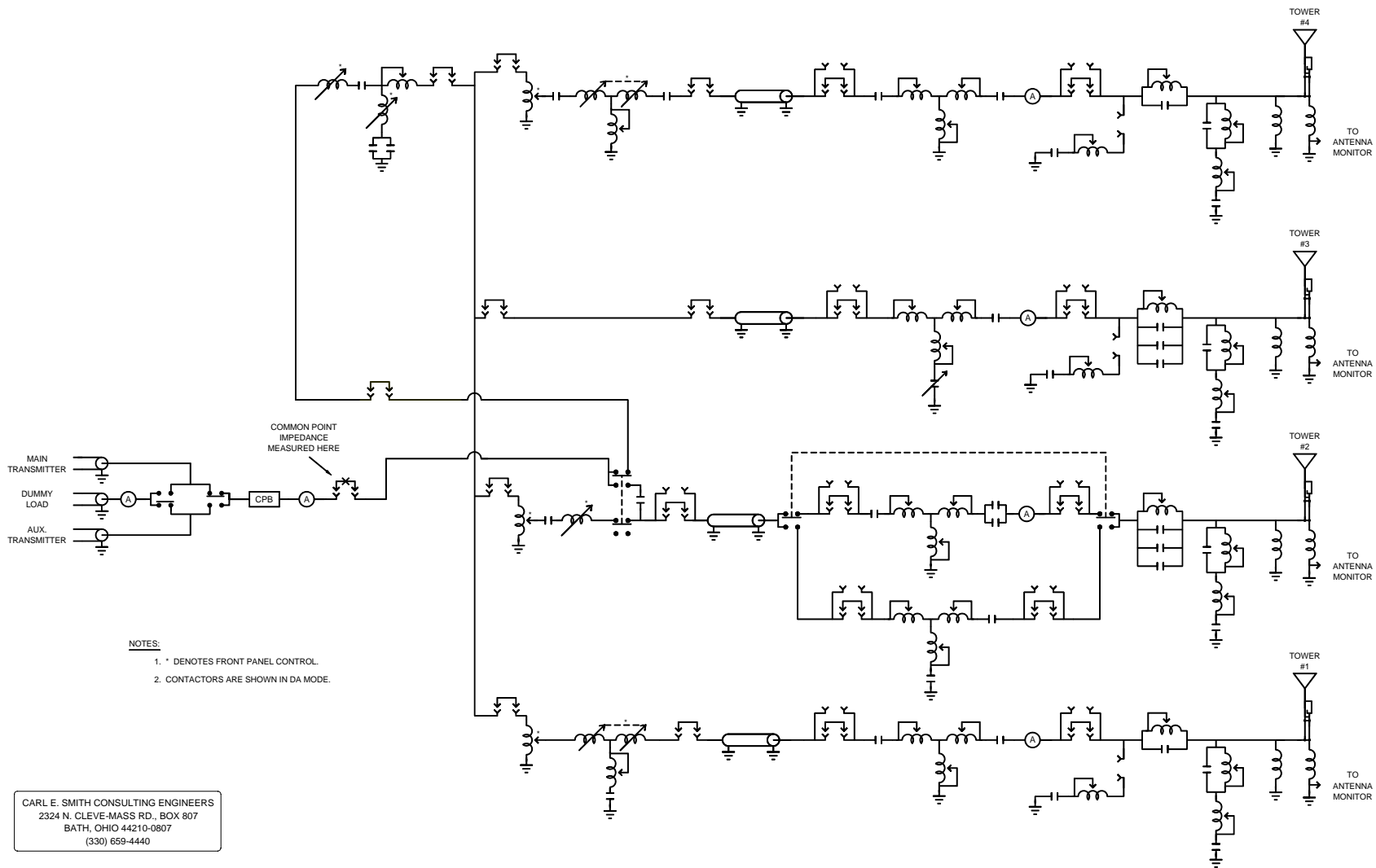
$Z_{cp} = 50.0 - j6.5$ OHMS

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

FIG. 3.1

WJMO DIRECTIONAL COMMON
POINT IMPEDANCE MEASUREMENTS

BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH



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

FIG. 32
WJMO FEEDER SYSTEM
BLUE CHIP BROADCASTING LICENSES, LTD.
CLEVELAND, OH

4.0 SAMPLE SYSTEM

As outlined in Section 1.0 of this exhibit, type approval was previously granted for the WJMO sample system. Since this refurbished sample system remains in full compliance with Paragraph A of the December 9, 1985 Public Notice concerning the criteria for approval of sample systems for directional AM broadcast stations and Section 73.68(a) of the FCC Rules in effect prior to January 1, 1986, this type approval should remain valid.

4.1 SAMPLE ELEMENTS

The new WJMO sample elements consist of a single turn, unshielded, untuned stainless steel loop mounted at a fixed orientation on each tower. These loops are identical in physical size and shape. These loops are mounted at 236 feet (71.9 meters) above the base insulator, which is approximately 90 electrical degrees down from the top of the tower, and operate at tower potential. Isolation for the sample line for each loop across the base insulator is achieved through the use of an isolation coil. These sample elements are in full compliance with Section 73.68(a)(2) of the FCC Rules in effect prior to January 1, 1986.

4.2 SAMPLE LINES

The sample lines utilized in the WJMO sample system consist of four equal length runs. The buried portions of these sample lines from the transmitter building to the tower bases are each 891 feet (272 meters) in length, including the isolation coils, and are RFS FCC338-50J 3/8" foam Cellflex cable. The new sample line runs from the isolation coils up the towers to the sample loops consist of four equal length runs (284 feet/87 meters each) of RFS LCF58-50J 5/8" foam Cellflex Cable.

RFS FCC38-50J foam Cellflex cable and RFS LCF58-50J foam Cellflex cable both meet the requirements of a solid outer conductor as outlined in Section 73.68(a)(1) of the FCC Rules in effect prior to January 1, 1986. The dielectric of both cables consist of foamed polyethylene.

4.3 ANTENNA MONITOR

The antenna monitor utilized in the WJMO sample system is a type accepted Potomac Instruments 1901(4188) S/N 738. All monitoring parameters are stable and are as shown in this exhibit.