

Section I

ENGINEER'S COPY

United States of America
Federal Communications Commission

APPLICATION FOR NEW BROADCAST STATION LICENSE

INSTRUCTIONS

A. This form is to be used in all cases when applying for a Broadcast Station License. It consists of this part, Section I, and the following sections:

Section II - A, License Application Engineering Data Standard Broadcast

Section II - B, License Application Engineering Data FM Broadcast

Section II - C, License Application Engineering Data Television Broadcast

B. Prepare and file three copies of this form and all exhibits with Federal Communications Commission, Washington, D.C. 20554.

C. Number exhibits serially in the space provided in the body of the form and list each exhibit in the space provided on page 2 of this Section. Date each exhibit and each antenna pattern.

D. The name of the applicant must be stated exactly as it appears on the construction permit which is being covered.

E. Information called for by this application which is already on file with the Commission need not be refiled in this application provided (1) the information is now on file in another application or FCC form filed by or on behalf of this applicant; (2) the information is identified fully by reference to the file number (if any), the FCC form number, and the filing date of the application or other form containing the information and the page or paragraph referred to, and (3) after making the reference, the applicant states: "No change since date of filing." Any such reference will be considered to incorporate into this application all information, confidential or otherwise, contained in the application or other form referred to. The incorporated application or other form will thereafter, in its entirety, be open to the public.

F. This application shall be personally signed by the applicant, if the applicant is an individual; by one of the partners, if the applicant is a partnership; by an officer, if the applicant is a corporation; by a member who is an officer, if the applicant is an unincorporated association; by such duly elected or appointed officials as may be competent to do so under the laws of the applicable jurisdiction, if the applicant is an eligible government entity; or by the applicant's attorney in case of the applicant's physical disability or of his absence from the United States. The attorney shall, in the event he signs for the applicant, separately set forth the reason why the application is not signed by the applicant. In addition, if any matter is stated on the basis of the attorney's belief only (rather than his knowledge), he shall separately set forth his reasons for believing that such statements are true.

G. BE SURE ALL NECESSARY INFORMATION IS FURNISHED AND ALL PARAGRAPHS ARE FULLY ANSWERED. IF ANY PORTIONS OF THE APPLICATION ARE NOT APPLICABLE, SPECIFICALLY SO STATE. DEFECTIVE OR INCOMPLETE APPLICATIONS MAY BE RETURNED WITHOUT CONSIDERATION.

H. See back of last page for Privacy Act Notice.

File No

BLH-810217 AI

Name and address of applicant (include ZIP Code)
(See Instruction D)

PENINSULA COMMUNICATIONS, INC..

P.O. Box 103 - KGTL RADIO

Homer, Alaska 99603

(907) 235-7551 or 235-7651

Notices and communications with respect to this application are to be addressed to the following - named persons at the address indicated (Include ZIP Code)

David F. Becker

P.O. Box 103, Homer, Alaska

1. Facilities authorized by construction permit

Frequency	Channel No.	Power in kilowatts	
		Night	Day
103.5 Mhz	278C	100	100
Hours of operation		Call letters	
Unlimited		K G T L - FM	

2. Construction permit covered by this application

File number	Date
BPH-800422AB	July 8, 1980
Construction begun	Construction completed
August 1, 1980	December 1, 1980

Is the station now in satisfactory operating condition Yes ☒ No ☐
and ready for regular operation?
If not, explain

PROGRAM DATA

3. Has applicant any contract, arrangement, or understanding, expressed or implied, with a network or organization for the broadcasting of network programs? Yes ☒ No ☐
on file

Does applicant, in the event this application is granted, propose to broadcast network programs? Yes ☒ No ☐
If network programs are to be broadcast, state as Exhibit No. # 1
arrangements under which they are to be obtained and attach copies of any contractual arrangement which may have been made. If the arrangement is based on an oral understanding, a written statement of the arrangement should be submitted.

FINANCIAL DATA

4. Give actual costs of making installation for which construction was authorized

Transmitter proper including tubes	Antenna system, including antenna-ground system, coupling equipment, transmission line	Frequency and modulation monitors	Studio technical equipment, microphones, transcription equipment, etc.
\$ 7,173.98	\$ 25,111.28	\$ none	\$ none
Acquiring land	Acquiring or constructing buildings	Other items, state nature	Total
\$ none	\$ none	\$ none	\$ 32,285.26

FINANCIAL DATA (Continued)

5. (a) Attach a detailed balance sheet, as at the completion date of the authorized construction, showing applicant's financial position as Exhibit No. 2 (b) If the actual cost of construction materially exceeds the original estimated cost of construction, attach as Exhibit No. — a detailed statement showing the plan used to finance such construction. (If applicant is licensee of a broadcast station having on file with the Commission an Annual Financial Report (FCC Form 324) showing its financial position within the past 12 months and the request in this application is for a change in existing facilities, these exhibits need not be supplied provided that no substantial reduction in financial position has occurred.)

6. State changes, if any, in capitalization, and report any contracts affecting ownership not shown in the application for construction permit. (If none, so state)

NONE

7. Apart from the apparatus constructed, have all the terms, conditions, and obligations set forth in the above-described application for construction permit been fully met? If "No", state exceptions.

Yes ☒ No ☐

8. Is a request for authority to conduct program tests a part of this application?

Yes ☐ No ☒

THE APPLICANT hereby waives any claim to the use of any particular frequency or of the ether as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934).

THE APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

THE APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.

CERTIFICATION

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.

Signed and dated this 10 day of February, 1981

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

PENINSULA COMMUNICATIONS, INC.

(NAME OF APPLICANT)

By

David F. Becker

(SIGNATURE)

David F. Becker

Title President

EXHIBITS furnished as required by this form:

Exhibit No.	Section and Para. No. of Form	Name of officer or employee (1) by whom or (2) under whose direction exhibit was prepared (show which)	Official title
1	Sec. I, Para. 3	David F. Becker	President
2	Sec. I, Para. 5	David F. Becker	President
3	Sec II, Para 12	David F. Becker	President



KGTL

ENGINEER'S COPY

STEREO
100,000 WATTS

FM 103.5

ALASKA'S MOST
POWERFUL
RADIO STATION

February 11, 1981

Mr. William J. Tricarico, Secretary
Federal Communications Commission
1919 M Street, N. W.
Washington, D.C. 20554

RECEIVED BY FCC
MAIL BRANCH ON
FEB 16 1981

RE: BP 800226AM and BPH 800422AB

Dear Mr. Tricarico:

Submitted herewith are the following:

- FCC Form 302- Application for a new AM broadcast license,
620 kHz, 5 kw - Homer, Alaska
- FCC Form 302- Application for a new FM broadcast license,
103.5 mHz, 100 kw- Homer, Alaska

The above applications are for a new AM station and modification of power, change of antenna and HAAT of an existing station, KGTL-FM, in Homer, Alaska.

A request for Program Authority Test for the new AM station was granted today per telephone conversation with Mr. Bill Martin, FCC, (202) 254-9570 at 4:30 am (AST) 2/11/81. This is to be followed by telegram confirmation.

Please refer any questions with regard to these matters to myself.

Yours truly,

David F. Becker, President
Peninsula Communications, Inc
K G T L Radio- AM/FM

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Broadcast Application			FEDERAL COMMUNICATIONS COMMISSION			Section II-B		
LICENSE APPLICATION ENGINEERING DATA FM BROADCAST			Name of Applicant Peninsula Communications, Inc.					
1. Facilities authorized in construction permit						9. Transmission line		
Call Sign KGTL-FM		File No. of construction permit BPH-800422 AB		Make Cablewave		Type No. HCC 300-50J		Description Air Wellflex
Frequency 103.5 MHz		Effective radiated power in kilowatts 100KW		Antenna height above average terrain 1,150 ft.		Size: (nominal inside transverse dimension) in inches 3 inch		Length in feet 495 feet
						Rated efficiency in percent for this length 83%		
2. Station location						10. Modulation monitor		
State Alaska			City or town Homer			Make TFT		Type No. 763 & 724A
3. Transmitter location						11. Frequency measurements		
State Alaska			County Kenai Peninsula Borough			Give the following data on the checks of the frequency		
City or town Homer			Street Address (or other identification) Diamond Ridge Rd. Lots 6, 7, 8 Blk. 4 Lofty Estates Sub. #1			Date and Time		Frequency measured by such agency or method
4. Main studio location (Same as above)						1. 11/30/80 22:15		103.499988
State Alaska			County Kenai Peninsula Borough			2. 12/7/80 21:05		103.500023
City or town Homer			Street address mile 1.8 Diamond Ridge			3. 12/14/80 21:05		103.499976
5. Remote control point location						Name of checking agency or method used Systron-Donner 1037 Freq. Counter		
State none			City or Town					
Street Address (or other identification)								
6. Transmitter installed						12. Attach as Exhibit No. 3 data, diagrams, and appropriate graphs together with description of measurement procedures and instruments with regard to the following: (All measurements shall be made with the equipment adjusted for normal program operation and shall include all circuits between the main studio microphone terminals and the antenna output, including telephone lines, preemphasis circuits and any equalizers employed except for microphones, and without compression if a compression amplifier is installed.)		
Make CCA		Type No. FM20,000E		Rated Power 22kw		a. Audio frequency response from 50 to 15,000 Hertz for approximately 25, 50 and 100 percent modulation. Measurements shall be made on at least the following audio frequencies: 50, 100, 400, 1000, 5000, 10,000 and 15,000 Hertz. The frequency response measurements should normally be made without deemphasis; however, standard 75 microsecond deemphasis may be employed in the measuring equipment or system provided the accuracy of the deemphasis circuit is sufficient to insure that the measured response is within the prescribed limits.		
7. Operating constants						b. Audio frequency harmonic distortion for 25, 50 and 100 percent modulation for the fundamental frequencies of 50, 100, 400, 1000 and 5000 Hertz. Audio frequency harmonics for 100 percent modulation for fundamental frequencies of 10,000 and 15,000 Hertz. Measurements shall normally include harmonics to 30,000 Hertz. The distortion measurements shall be made employing 75 microsecond deemphasis in the measuring equipment or system.		
D.C. plate current in last radio stage in amperes 3.27a			Applied D.C. plate voltage of last radio stage, in volts 7700v			c. Output noise level (frequency modulation) in the band of 50 to 15,000 Hertz in decibels below the audio frequency level representing frequency swing of 75 kilohertz. The noise measurements shall be made employing 75 microsecond deemphasis in the measuring equipment or system.		
Plate input power to last radio stage, in kilowatts 25.179			Efficiency factor F of transmitter at operating power, in percent 76%			d. Output noise level (amplitude modulation) in the band of 50 to 15,000 Hertz in decibels below the level representing 100 percent amplitude modulation. The noise measurements shall be made employing 75 microsecond deemphasis in the measuring equipment or system.		
Transmitter power output in kw by indirect method 19.12			RF transmission line meter reading relative power 100%					
8. Antenna								
Antenna make and type No. Comark FMH-HP6		Number of sections 6		Power gain 6.3				
Height of antenna radiation center above ground 379.22 feet								
Geographical coordinates of antenna (to nearest second) North latitude 59° 41' 03"						West Longitude 151° 37' 51"		
Description of antenna supporting structure Utility Tower Model 380, single, guyed steel tower, triangular uniform cross-section, 24 inches per side.								
Overall height above ground of antenna supporting structure (without obstruction lighting) 403 feet								

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

NONE

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.

Date February 10, 1981

Signature

David F. Becker

(check appropriate box below)

David F. Becker

- ☐ Technical Director
☐ Registered Professional Engineer
☐ Consulting Engineer
☒ Chief Operator

Telephone No. (907) 235-7551
(include area code)



KGTL

STEREO
100,000 WATTS
FM 103.5

**ALASKA'S MOST
POWERFUL
RADIO STATION**

*EXHIBIT #3
11/30/80*

ENGINEERING REPORT KGTL

The Second Audio Proof of Performance for
Radio Station KGTL, Homer, Alaska 99603

This proof was run November 23 and 30, 1980 between 9pm and 3am the next morning. The entire proof was performed by David F. Becker, President of Peninsula Communications, Inc. and chief Engineer of KGTL Radio.

Procedure

The procedure to run this proof was basically the same as outlined in the First Audio Proof performed last year. Due to construction changes which were in the process of being made to increase power from 25 kw to 100 kw during the months of Sept., Oct. and the first two weeks of November, it was not possible to perform final Proof measurements until construction was completed. The changes made as authorized by the construction permit were to increase tower height from 283 feet to 406 feet; replace a 7 bay, low-power circular-polarized FM antenna and 1-5/8" transmission line with a 6 bay, high-power horizontally polarized FM antenna and 3" transmission line. Also, the CCA FM 8000E (8.2 kw) transmitter was converted into a CCA FM 20,000E (22 kw) transmitter. This was done by installing a factory conversion kit consisting of a new final tube (3CX15,000A7) and higher voltage and current power supply components.

The proof was run at the new authorized power level of 100,000 watts with the Orban Optimod Stereo Generator automatic level control disabled. All test equipment was at the studio during the time measurements were made. The signal was demodulated at the station's FM and Stereo Modulation monitors. Both modulation monitors were calibrated following procedures outlined by the manufacturer and were adjusted to conform to manufacture's specifications of accuracy. A Potomac AT-51 Audio Test System was utilized which has an automatic "null" feature for measuring distortion, thus greatly simplifying this part of the proof. A "L+R/L-R" test box constructed for the first proof was again used for performing cross-talk measurements. Channel balance was set-up using the L-R meter function of the Optimod Stereo Generator and adjusting for a null with equal amplitude and phase on both left and right channels.

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STEREO
100,000 WATTS
FM 103.5
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ENGINEERING REPORT KGTL
page two

DATA

Attached are the data summary sheets and frequency response and distortion measurement graphs. As the data indicates, the proof shows the station performance at the new 100,000 watt power level to meet and exceed all FCC performance specifications. The station technical performance continues to be excellent in all operating parameter areas.

Final System Adjustment

All that was required following the proof to restore normal broadcast operation was to switch the Optimod automatic level control back into operation. Input levels were set for approximately 6db average gain reduction on normal program levels. This allows for approximately 10 db additional head room for levels which may inadvertently be higher and yet will not exceed 100 % modulation.

Signal reports 75-80 miles distant have indicated with the new higher power level and increased antenna height there is a substantial improvement in quality of reception.

Date

11/30/80

David F. Becker

David F. Becker, Chief Engineer,
P1-23-2389 and President KGTL

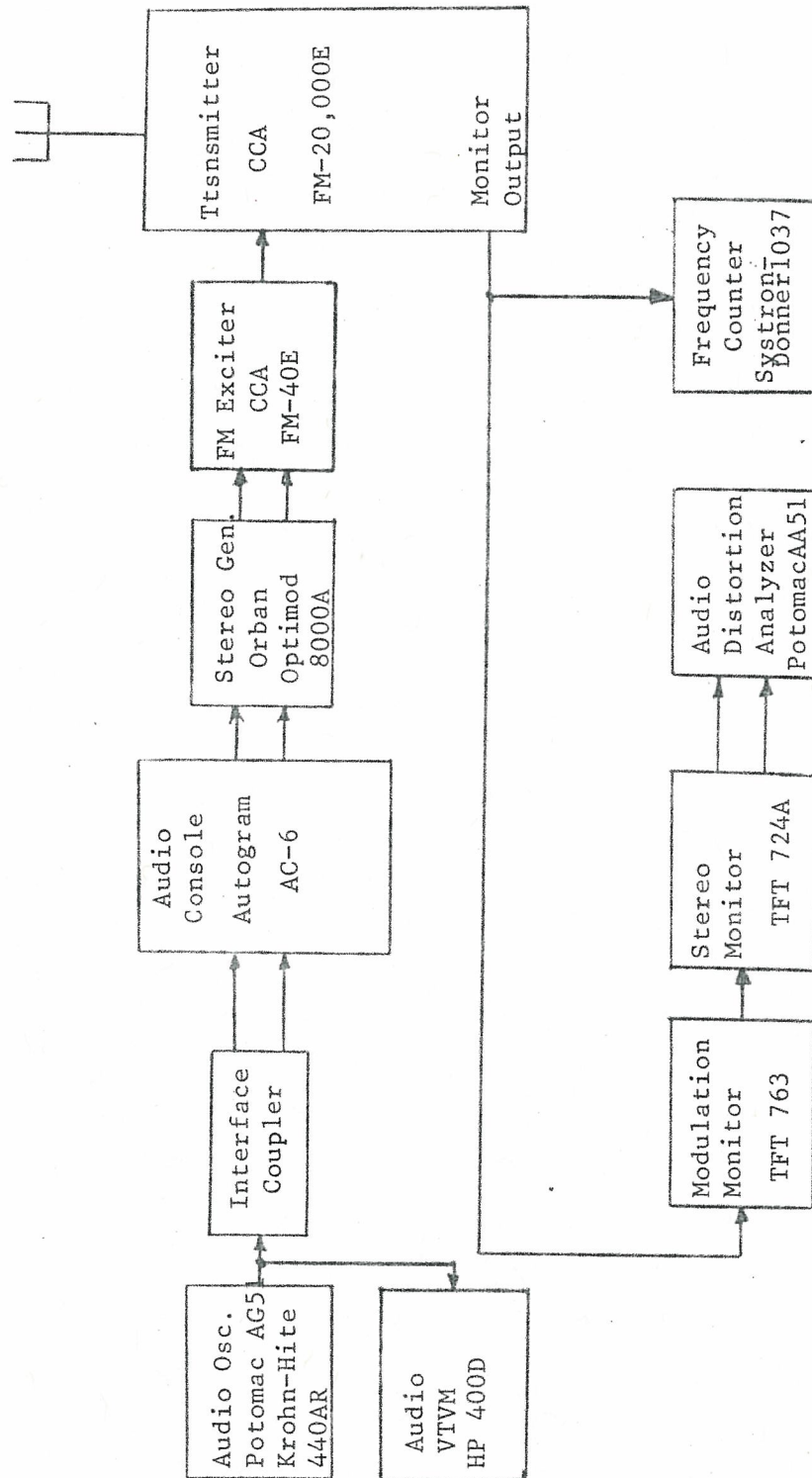
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FM Radio Station KGTL

Second Annual Proof of Performance

Block Diagram fo the System Tested
Radio Station KGTL, Homer, Alaska
David F. Becker, Chief Engineer





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STEREO
100,000 WATTS
FM 103.5
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RADIO STATION**

1980 ANNUAL PROOF OF PERFORMANCE

List of Station Equipment Tested

- (1) Studio Console.....Autogram AC-6
- (2) Intermediate AGC.....none
- (3) Telephone Line Co.....none
- (4) Telco Line Equalizer.....none
- (5) Limiter.....Orban Optimod 8000A
- (6) Transmitter.....CCA FM-20,000E
- (7) Exciter.....CCA FM-40E
- (8) Antenna System.....Comark FMH-HP 6, 6 bays, Hor. Polar.
- (9) Modulation Monitor.....TFT 763 FM and 724A Stereo
- (10) Frequency Monitor.....Systron-Donner 1037

List of Equipment Used

- (1) Audio Oscillator.....Potomac AG-51, Krohn-Hite 440AR
- (2) Audio Osc. to Equip. Coupler.....Interface Coupler Box, A20's
- (3) Demodulator.....Station Modulation Monitor
- (4) Distortion Meter.....Potomac AA-51
- (5) Audio VTVM.....Hewlett-Packard HP 400D
- (6) Frequency Counter.....Systron-Donner 1037 with 500Mhz Plug-in

Certification

I do hereby certify that:

- (1) I did perform the engineering work as described and did compose this report.
- (2) I am the holder of a currently valid FCC first class license, P1-23-2389, continuously since 1969.
- (3) I have a B.S.E.E. degree from California State Polytechnic University, 1967 and a M.S.E.E. degree from the University of California, 1970.
- (4) My qualifications to perform this exact type of work are known to personnel of the FCC with offices in Anchorage and Washington, D.C.
- (5) That the work and the data given in this report is true, correct and accurate to the best of my knowledge.

11/30/80
Date

David F. Becker
David F. Becker, Chief Engineer P1-23-2389

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FM 103.5ALASKA'S MOST
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DATA SUMMARY SHEET STATION _____ FM

NOISE TESTS: AM NOISE <u>-57</u> dB				FM LEFT (or mono) <u>-60.5</u> dB				FM RIGHT <u>-63.0</u> dB			
	LEFT (or mono)					RIGHT					
	FREQ	GEN. OUT.	RESP. DEV.	DIST.		FREQ	GEN. OUT.	RESP. DEV.	DIST.		
100% MOD	50	32.4	-0.6	0.28	50	31.9	-0.7	0.35			
	100	32.4	-0.6	0.23	100	32.1	-0.5	0.27			
	400	33.0	REF	0.23	400	32.6	REF	0.25			
	1k	33.9	0.9	0.22	1k	33.5	0.9	0.21			
	5k	40.9	7.9	0.43	5k	40.8	8.2	0.27			
	10k	46.5	13.5	0.96	10k	46.1	13.5	0.56			
	15k	49.7	16.7	2.2	15k	49.1	16.5	1.1			
50% MOD	50	37.7	-0.6	0.29	50	37.1	-0.7	0.28			
	100	37.7	-0.6	0.27	100	37.3	-0.4	0.23			
	400	38.3	REF	0.28	400	37.7	REF	0.22			
	1k	38.9	0.6	0.30	1k	38.5	0.8	0.21			
	5k	46.3	8.0	0.74	5k	46.0	8.3	0.42			
	10k	51.5	13.2		10k	51.0	13.3				
	15k	54.7	16.4		15k	54.2	16.5				
25% MOD	50	43.6	-0.4	0.47	50	43.2	-0.4	0.31			
	100	43.5	-0.5	0.45	100	43.1	-0.5	0.30			
	400	44.0	REF	0.49	400	43.6	REF	0.31			
	1k	44.9	0.9	0.49	1k	44.7	1.1	0.34			
	5k	52.1	8.1	1.6	5k	51.7	8.1	0.28			
	10k	57.4	13.4		10k	57.0	13.4				
	15k	60.4	16.4		15k	60.0	16.4				

ALL RESPONSE DATA IN dB
ALL DISTORTION DATA IN%ALL TESTS PERFORMED BY: David F. Becker P1-23-238DATE: 11-30-80



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FM STEREO PERFORMANCE DATA

STEREO SEPARATION

RESIDUAL LEFT IN RIGHT FREQ. RESIDUAL RIGHT IN LEFT

	<u>-41.0</u>	50	<u>-40.5</u>	
	<u>-45.7</u>	100	<u>-45.5</u>	
	<u>-51.1</u>	400	<u>-50.7</u>	
dB	<u>-52.0</u>	1k	<u>-51.4</u>	dB
	<u>-52.0</u>	5k	<u>-51.5</u>	
	<u>-51.5</u>	10k	<u>-51.5</u>	
	<u>-47.6</u>	15k	<u>-52.3</u>	

CROSS-TALK

RESIDUAL MAIN IN SUB CHANNEL FREQ. RESIDUAL SUB IN MAIN CHANNEL

	<u>-47</u>	50	<u>-44</u>	
	<u>-52</u>	100	<u>-50</u>	
	<u>-50</u>	400	<u>-55</u>	
dB	<u>-50</u>	1k	<u>-53</u>	dB
	<u>-50</u>	5k	<u>-48</u>	
	<u>-44</u>	10k	<u>-40</u>	
	<u>-40</u>	15k	<u>-40</u>	

38 kHz SUPPRESSION = -63 dB (1% = 40dB) PILOT INJECTION = 9.5 %, FREQ. DEV. = -0.1 Hz

Output Frequency = 103.499956 MHz

(18.9999 KHz)

Channel 278C = 103.5 MHz

ALL TESTS PERFORMED BY: David F. Becker PI-23-2389

DATE: 11-30-80



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STEREO
100,000 WATTS
FM 103.5
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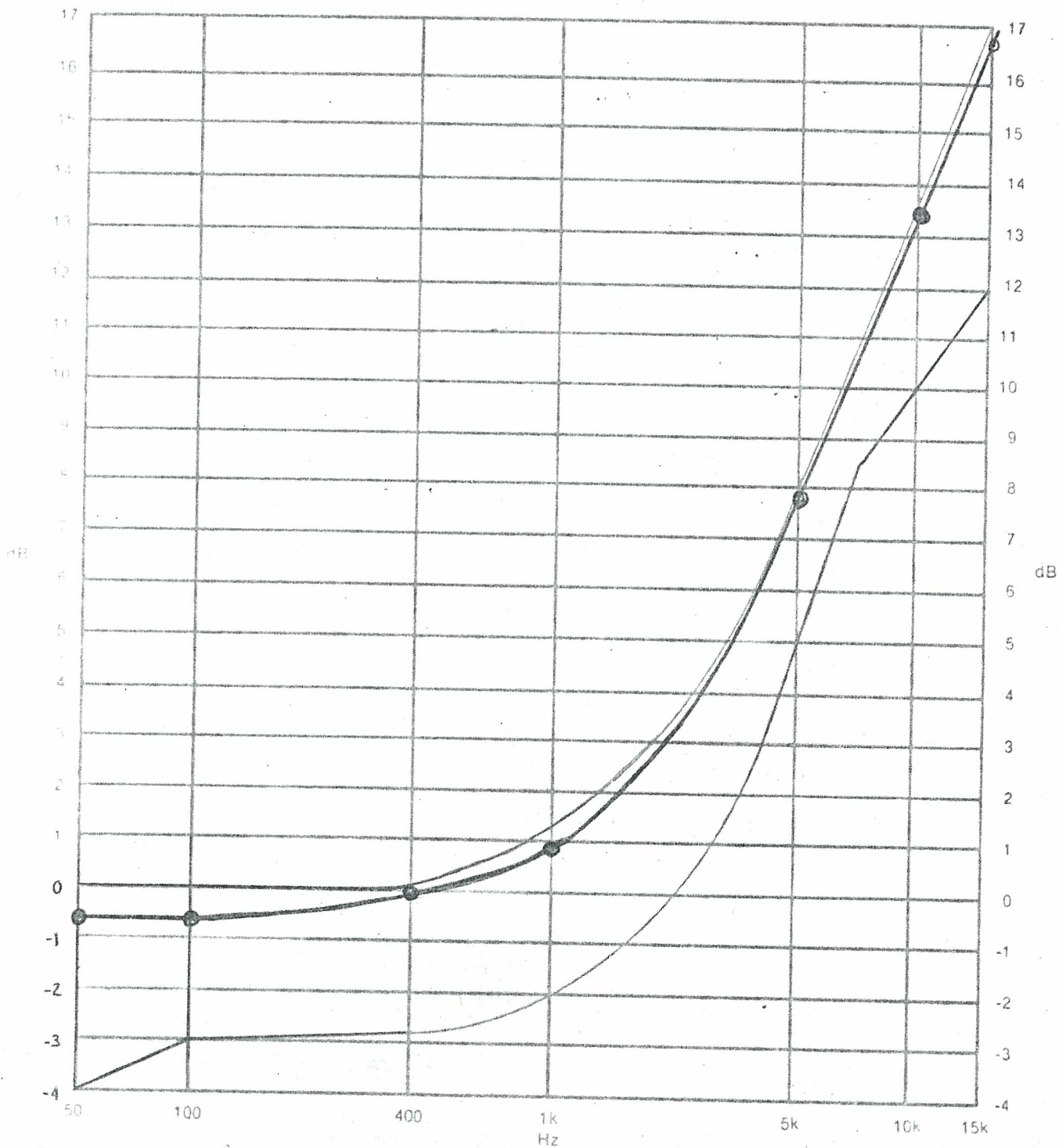
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FM FREQUENCY RESPONSE

MONO ☐ LEFT ☒ RIGHT ☐

100% MODULATION



ALL TESTS PERFORMED BY:

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DATE:

11-30-80



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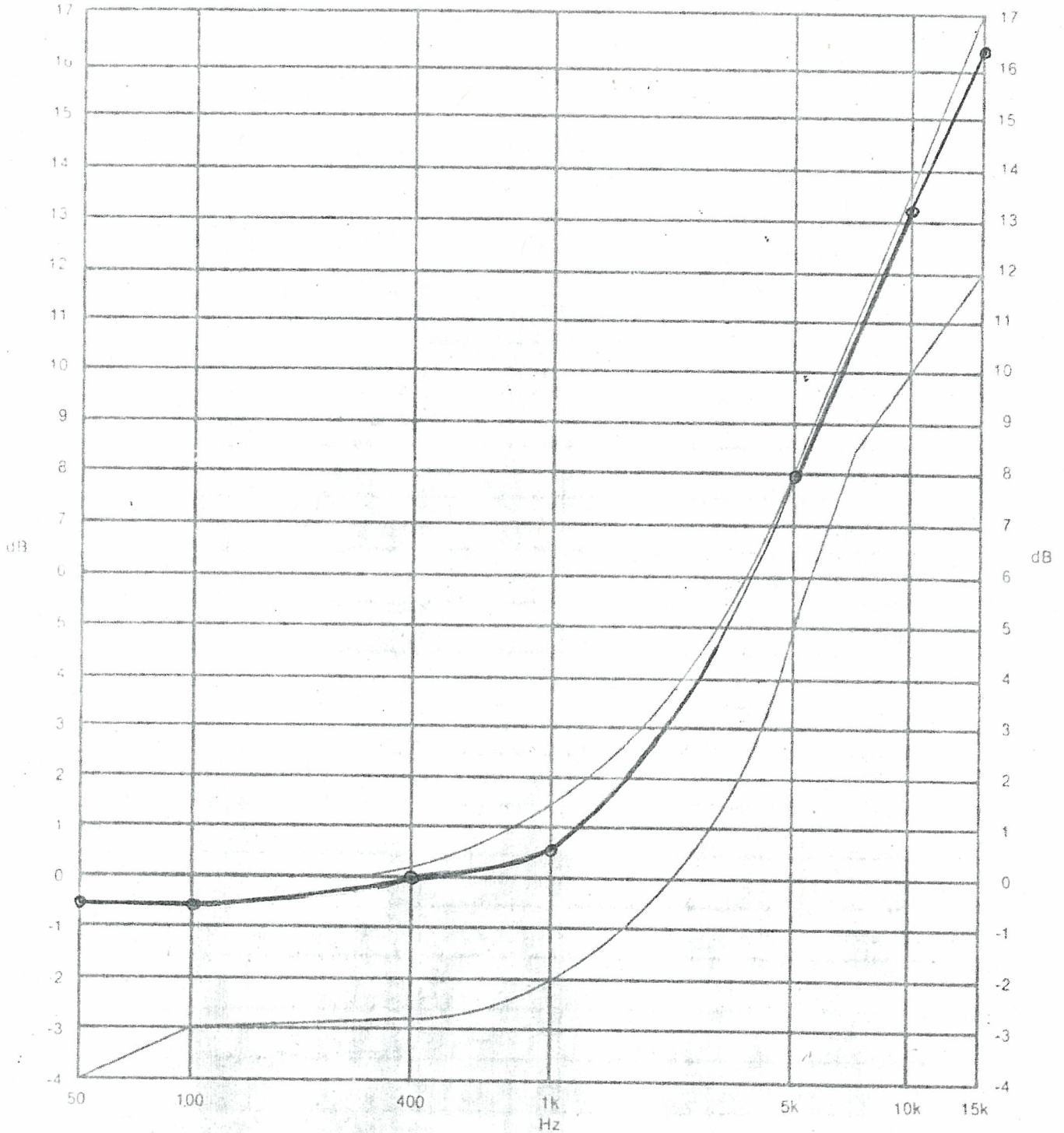
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FM FREQUENCY RESPONSE

MONO ☐ LEFT ☒ RIGHT ☐

50% MODULATION



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DATE: 11-30-80



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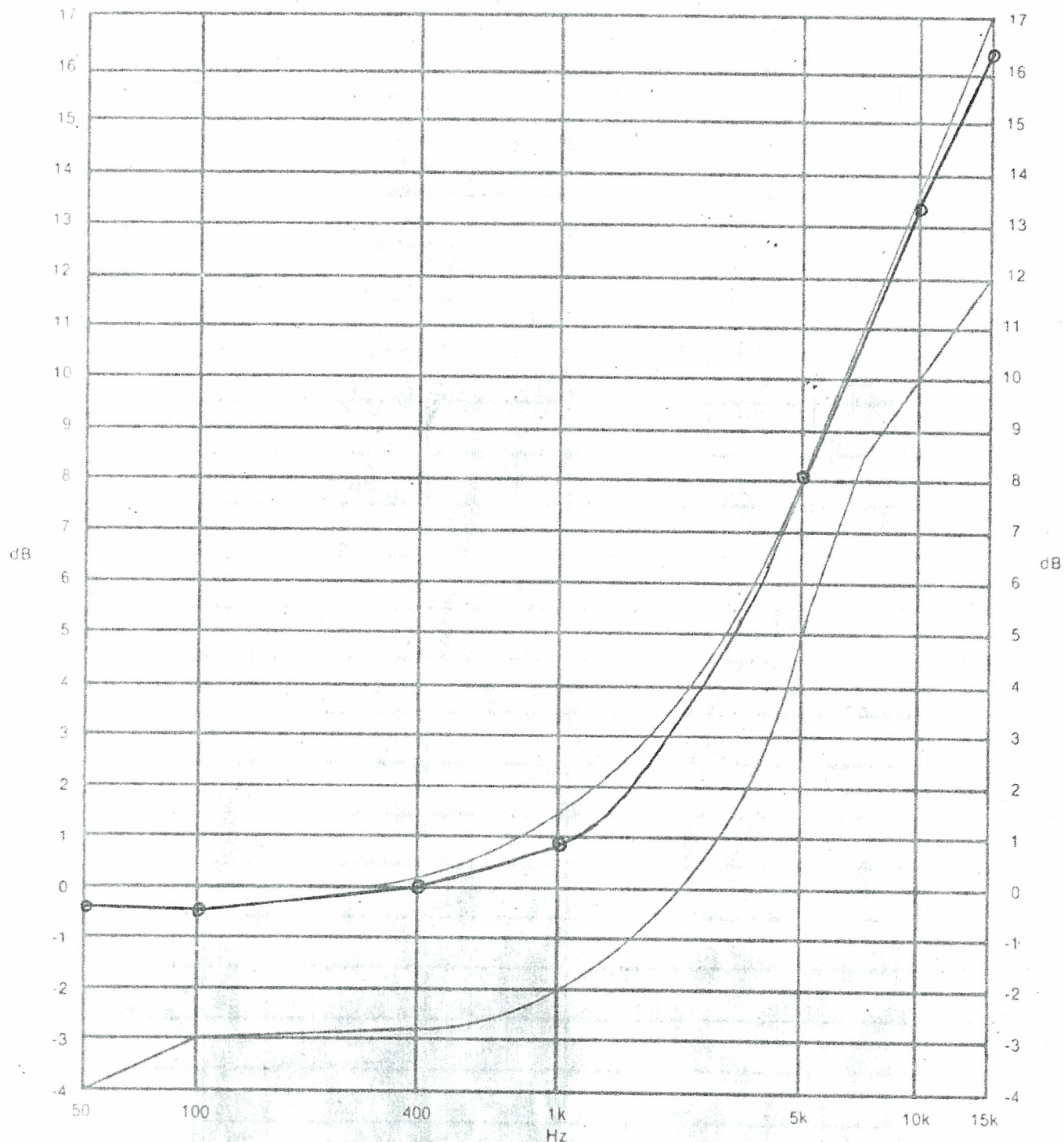
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FM FREQUENCY RESPONSE

MONO ☐ LEFT ☒ RIGHT ☐

@ 25% MODULATION



ALL TESTS PERFORMED BY: David F. Becker P1-23-2389

DATE: 11-30-80



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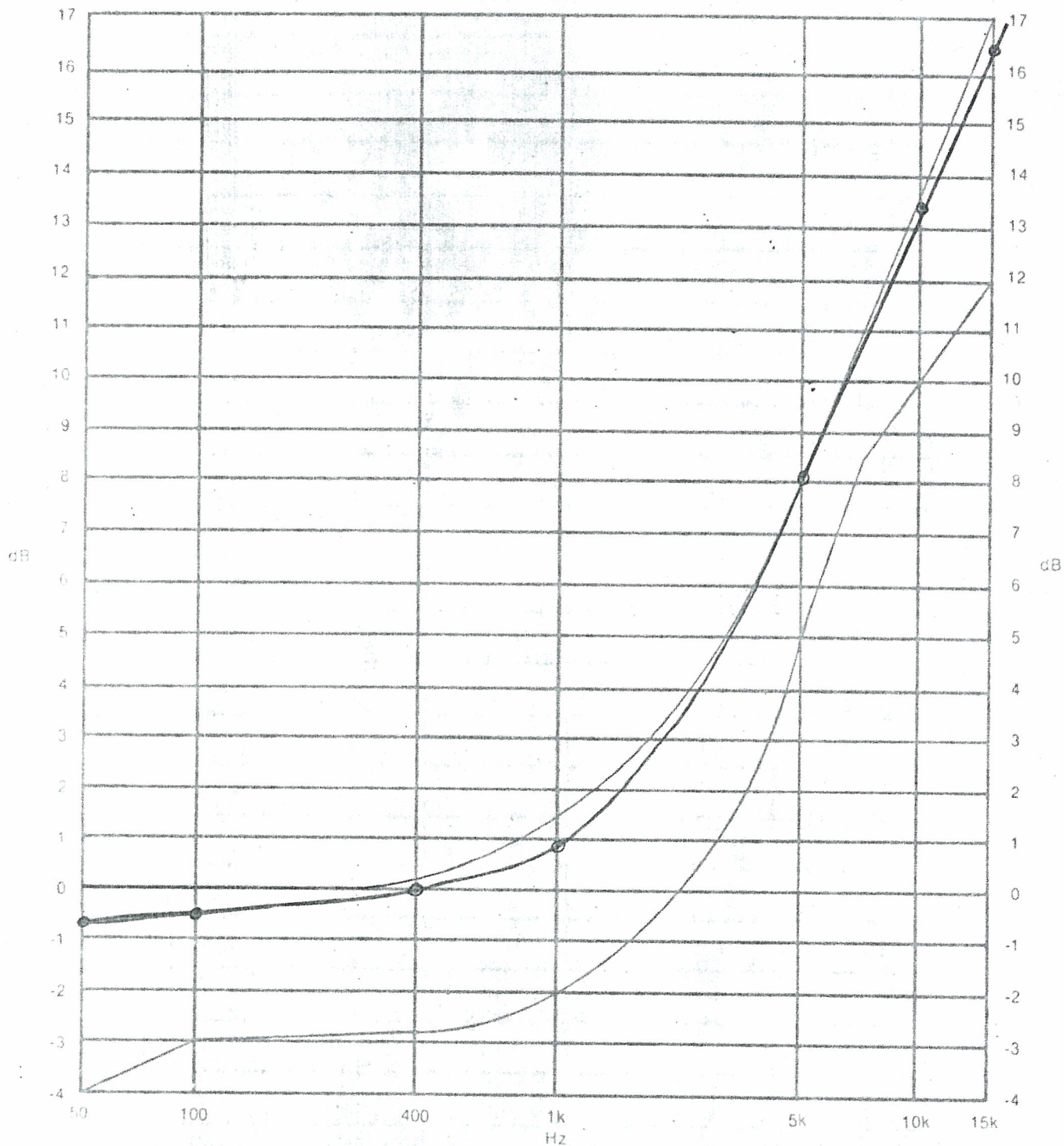
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FM FREQUENCY RESPONSE

MONO ☐ LEFT ☐ RIGHT ☒

@ 100% MODULATION



ALL TESTS PERFORMED BY: David F. Becker P4-23-2389

DATE: 11-30-80



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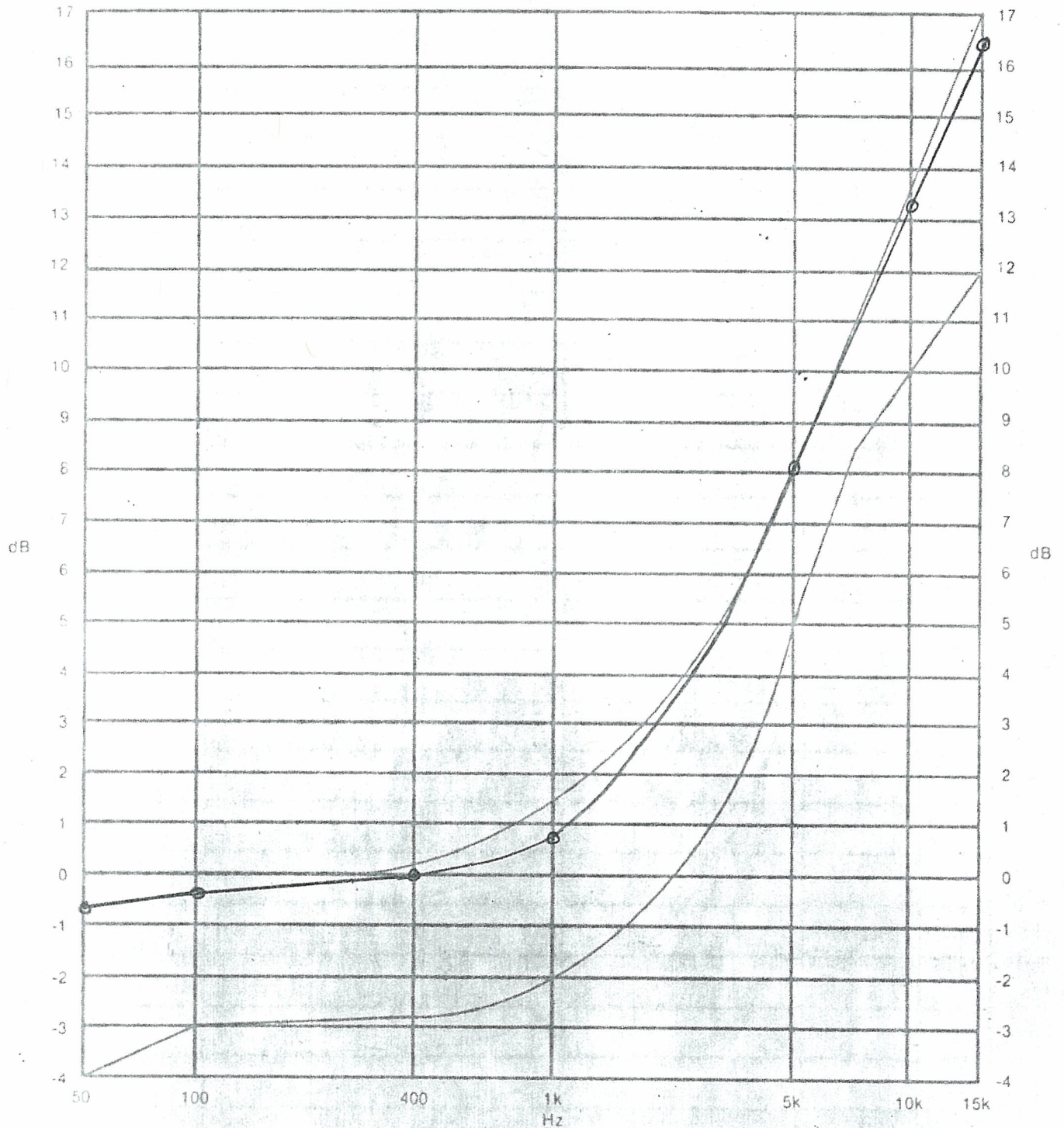
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FM FREQUENCY RESPONSE

MONO ☐ LEFT ☐ RIGHT ☒

@ 50% MODULATION



ALL TESTS PERFORMED BY: David F. Becker P1-23-2389

DATE: 11-30-80



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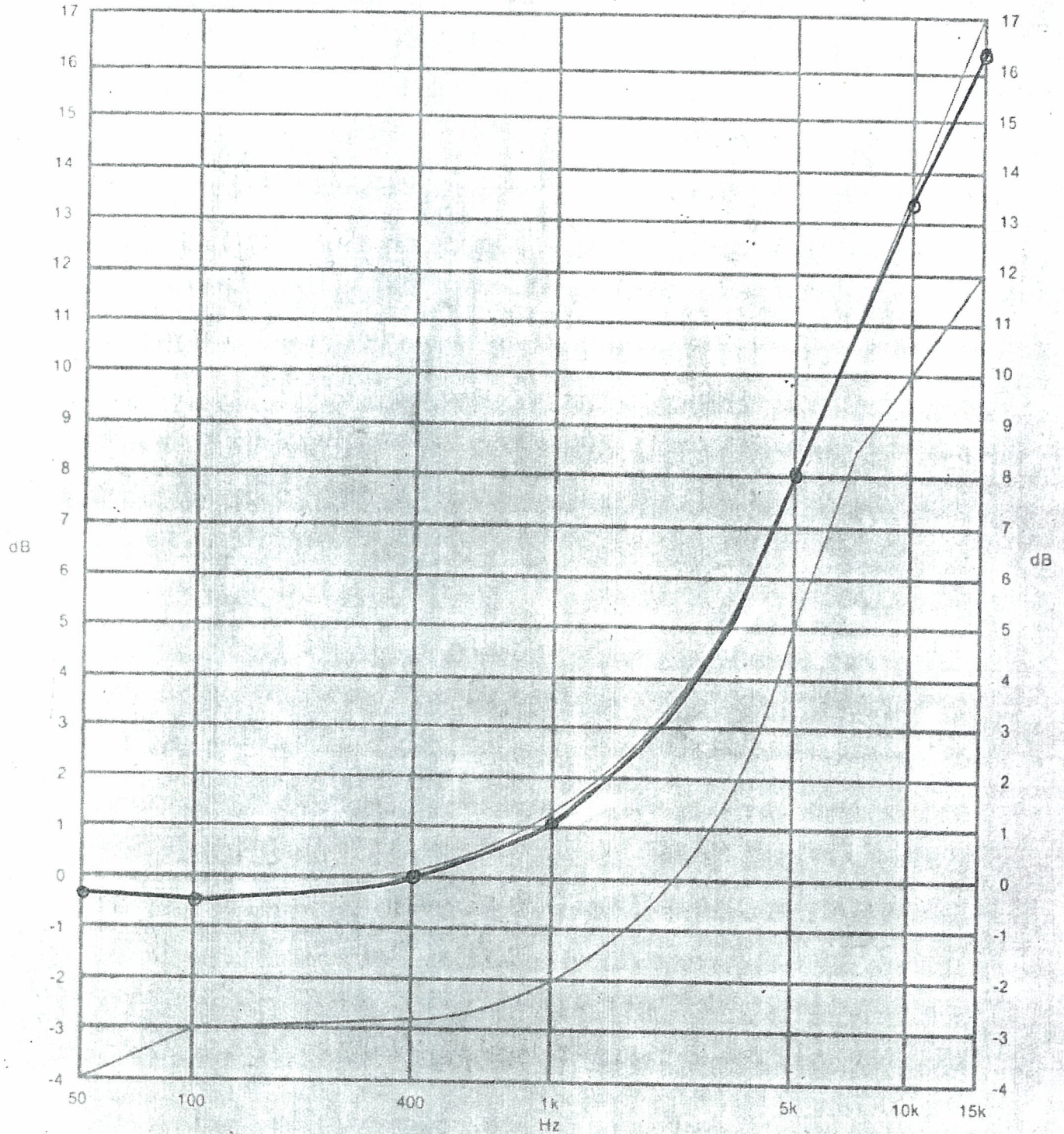
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STEREO
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FM FREQUENCY RESPONSE

MONO ☐ LEFT ☐ RIGHT ☒

25% MODULATION



ALL TESTS PERFORMED BY: David F. Becker P1-23-2389

DATE: 11-30-80



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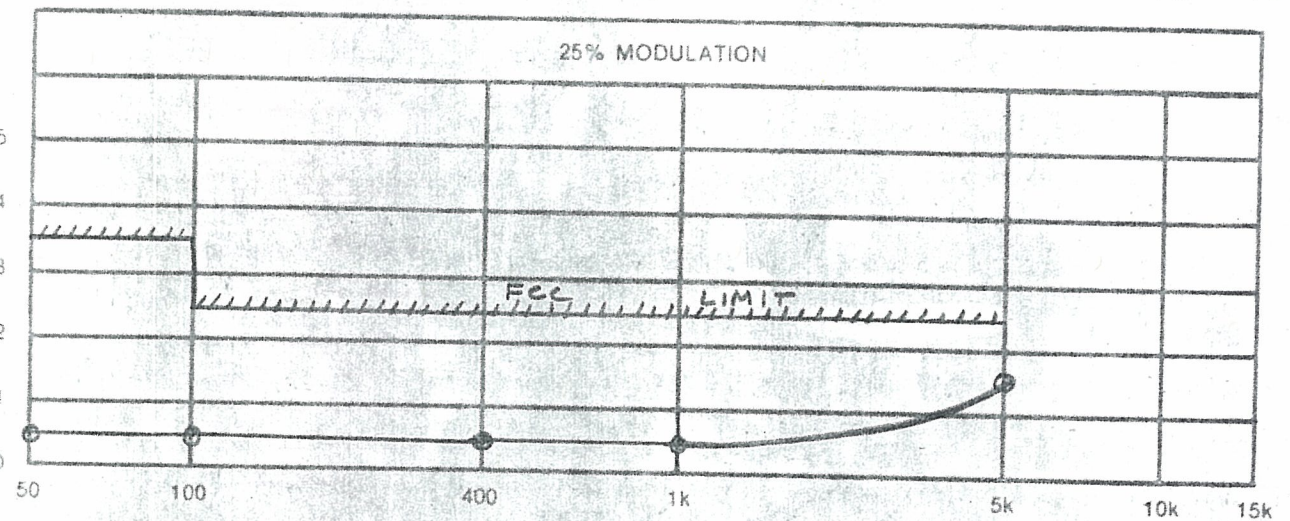
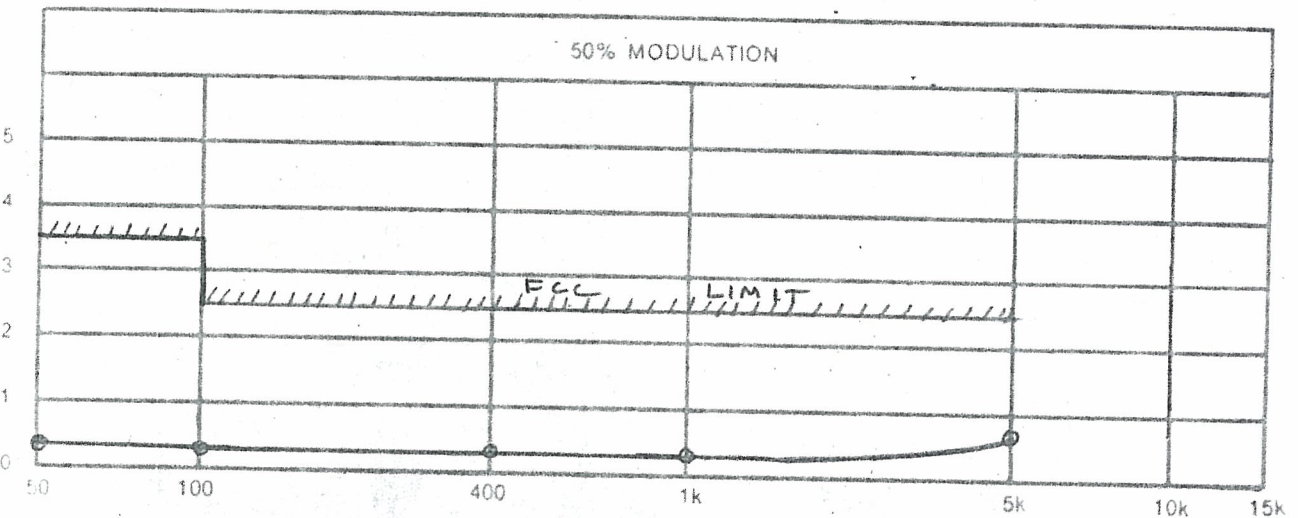
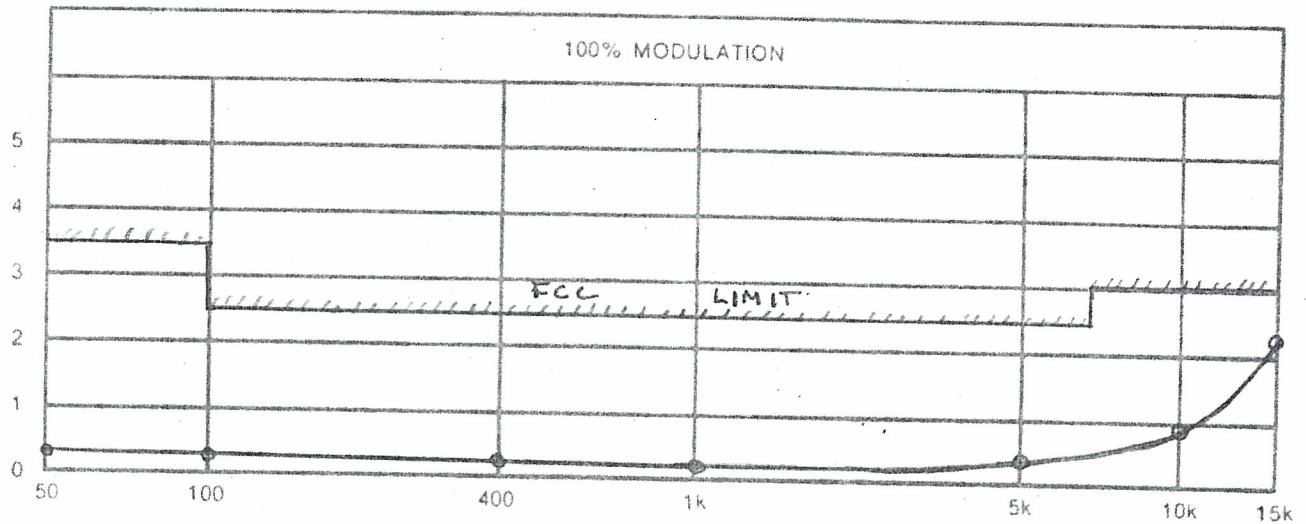
Beautifully Gentle

P.O. BOX 103 • HOMER, ALASKA 99603

MONO ☐ LEFT ☒ RIGHT ☐

FM SYSTEM DISTORTION

% TOTAL HARMONIC DIST.



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DATE: 11-30-80



KGTL

100,000 WATTS

FM 103.5

ALASKA'S MOST
POWERFUL
RADIO STATION

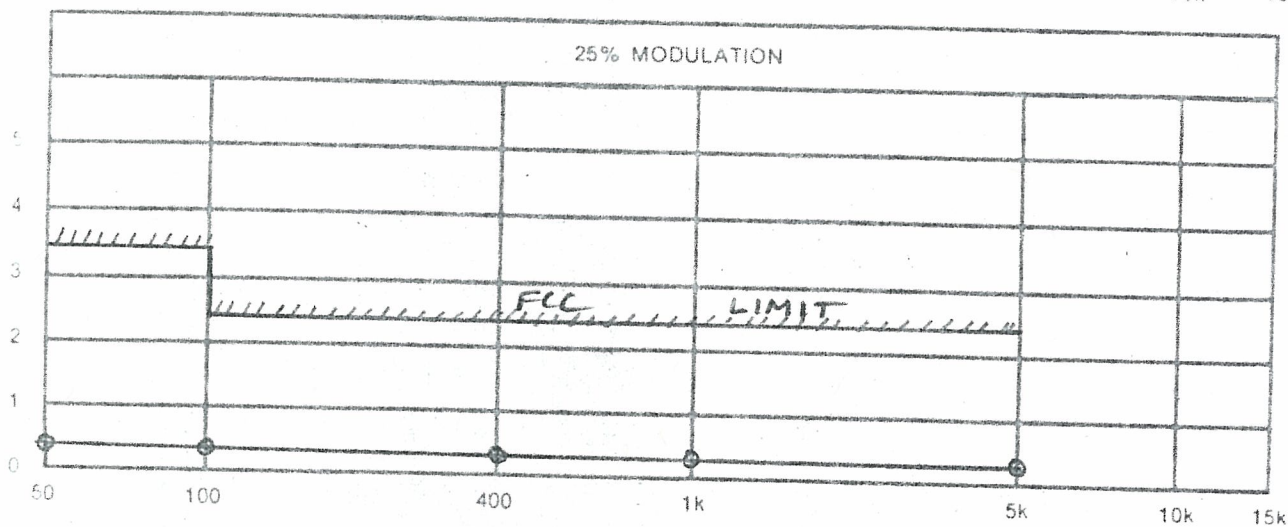
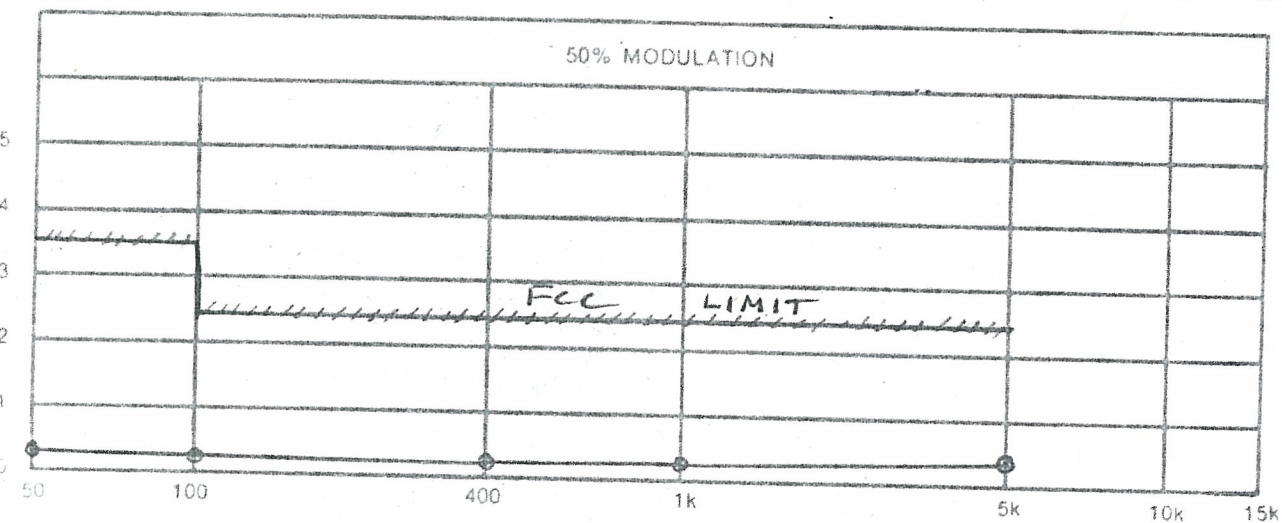
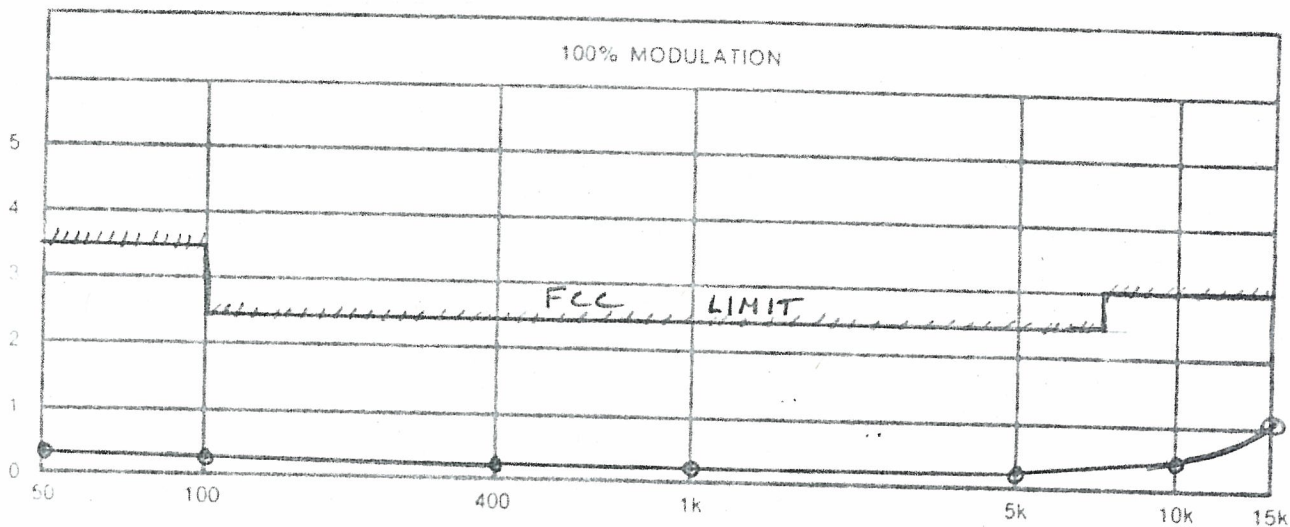
Beautifully Gentle

P.O. BOX 103 • HOMER, ALASKA 99603

FM SYSTEM DISTORTION

MONO ☐ LEFT ☐ RIGHT ☒

% TOTAL HARMONIC DIST.



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