VINCENT B. WELCH EDWARD P. MORGAN ROBERT N. GREEN FORBES W. BLAIR EDWARD J. STEGEMANN EDWARD S.O'NEILL A. ROBERT CHERIN PIERRE E. MAILLOUX JOHN H. MACKES JAMES C. DAGGITT MARVIN S. ROMANOFF Welch & Morgan

ATTORNEYS AT LAW 300 FARRAGUT BUILDING 900 Seventeenth Street, N.W. WASHINGTON, D. C. 20006

> AREA CODE 202 296-5151

CABLE ADDRESS

December 12, 1966

Mr. Ben F. Waple, Secretary Federal Communications Commission Washington, D. C. 20554

Dear Mr. Waple:

Enclosed herewith, on behalf of Las Vegas Television, Inc., are three (3) copies of an application for license to change existing station facilities in connection with File No. BPCT-3785. Also enclosed is a check in the amount of \$30.00 to cover filing fees.

Should any further information be desired in connection with this matter, please communicate with this office.

Very truly yours,

Robert N. Green

Enclosures (4)



CORY TO THERE

VINCENT B. WELCH EDWARD P. MORGAN EDWARD J. STEGEMANN A. ROBERT CHERIN PIERRE E. MAILLOUX JOHN H. MACKES GERALD S. ROURKE WALTER H. SWEENEY THOMAS M. P. CHRISTENSEN JOSEPH M. MORRISSEY RAYMOND J. SHELESKY

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## Welch & Morgan

ATTORNEYS AT LAW 300 FARRAGUT BUILDING 900 SEVENTEENTH STREET, N.W. WASHINGTON, D. C. 20006

> AREA CODE 202 296-5151

CHARLES A. MCNELIS

CABLE ADDRESS

### RECEIVED

## JUL 1 1970

June 29, 1970

TV APPLICATIONS BRANCH (ENGINEERING)

Mr. Ben F. Waple, Secretary Federal Communications Commission Washington, D.C. 20554

Dear Mr. Waple:

### Re: Docket No. 17253

Transmitted herewith, on behalf of Hughes Tool Company, licensee of KLAS-TV, Channel 8, Las Vegas, Nevada, is a statement by the station's engineer concerning its predicted Grade A and B contours as calculated pursuant to amended Rule 73.684.

Should any further information be desired in connection with this matter, please communicate with this office.

### Very truly yours,

#### Thomas M. P. Christensen

Enclosure

BRUADCAST FACILITIES

JUN 30 1970



CHANNEL EIGHT FOR SOUTHERN NEVADA

KLAS•T CB:



HUGHES TOOL COMPANY

P.O. BOX 1504 LAS VEGAS, NEVADA - 8911 702 / 735-751

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June 26, 1970

i ederal Communications Commission 1919 M Street, N.W. Washington D.C. 20554

RECEIVED

JUL 1 TV APPLICATIONS BRANCH (ENGINEERING)

1970

Gentlement

Thereby certify that after careful examination of the predicted Grade A and B contours according to 73,684 as amended, that there is no change on any radial.

Sincerely,

William Xaught

William Haught Director of Engineering Hughes Tool Company dba KLAS-TV

> BROADCAST FACILITIES DIVISION

> > JUN 30 1970

WH:j5

| FCC Form 302<br>November 1962  | Form Approved<br>Budgot Bureau No. 52-2014   | 6.17  | F:lo No  | BLO   | st - 16  | 35  |
|--|--|---|--|---|--|---|
| November 1962<br>Budget Bureau No. 52-R016.17<br>Soction I<br>United States of America<br>Fodoral Communications Commisser OADCAST   |  |   | Id post office ad  | tress of appl   | icant (See Instr   | uction D)                                 |
| APPLICATION FOR NEW BROADCAST STATION LICENSE  |  |   | 0  |   | ,  |   |
|  | UCTIONS DEC  | T'3150  | Æ. Deser<br>Vegas, N   | t Inn R<br>Ievada   | oad<br>89109   |   |
| A. This form is to be used   | in all cases when applying for a<br>lt consists of this part, Section I  | :   |  | ,   | • , • • ,  |   |
| Section 11-A, License A<br>Standard  | Application Engineering Data<br>Broadcast  |   |  |   |  |   |
| Standard Broadcast<br>oction 11 - B, License Application Engineering Data FM<br>Broadcast  |  | liouces   | and communicati  | ons with rus  | poct to this app   | lication are to                           |
| Soction 11 - C, License /<br>Televisio   | Application Engineering Data<br>n Broadcast  | dicatod   | (1) above  | ;(2)W   | elch & M   | organ,                                    |
| Television Broadcast<br>Prepare and file three copies of this form and all exhibits<br>ith Federal Communications Commission, Washington, D. C. 20554<br>Number exhibits serially in the space provided in the body<br>f the form and list each exhibit in the space provided on page<br>of this Section. Date each exhibit and each antenna pattern.<br>The name of the applicant must be stated exactly as it<br>ppears on the construction permit which is being covered.<br>Information called for by this application which is already<br>in file with the Commission need not be refiled in this applicant;<br>pplication or FCC form filed by or on behalf of this applicant;<br>the information is identified fully by reference to the file<br>umber (if any), the FCC form number, and the filing date of<br>the application or other form containing the information and the<br>age or paragraph referred to, and (3) after making the refer-<br>nce, the applicant states; "No changes ince date of filing."<br>my such reference will be considered to incorporate into this<br>application all information, confidential or otherwise, con-<br>ained in the application or other form referred to. The in-<br>orporated application or other form will thereafter, in its<br>ntirety, be open to the public. |  | 54. D. (<br>y<br>1. Faci<br>Freque<br>180<br>100rs<br>100rs<br>Sat.8<br>2. Constr<br>Filo n<br>BPC<br>Constr<br>7/1 | 1. Facilition authorized by construction permit         Frequency       Channel No.       Power in kilowatts         180-186 mc       8       200       20         Bours of operation       Call letters         Mon - Fri - 700a.m100a.m.       Call letters         Sat. & Sun - 8:00a.m1:00a.m.       KLAS-TV         2. Construction permit covered by this application         File number       Date         BPCT - 3785       6/29/66         Construction begun       Construction completed         7/1/66       10/11/66 |   |  |   |
| cant, if the applicant is an i<br>if the applicant is a partners<br>is a corporation; by a member<br>cant is an unincorporated as<br>appointed officies as may be<br>aws of the applicates applying<br>the applicant sphysical that<br>United Status. The attorner<br>the applicant constantly sec<br>attor is not the apply the<br>state of the basis<br>rather than his constant e.  | y, be open to the public.<br>is application shall be personally signed by the appli-<br>f the applicant is an individual; by one of the partners,<br>applicant is a partnership; by an officer, if the appli-<br>tion of the partnership; by an officer, if the appli-<br>an unincorporated association; by such duly elected or<br>ted officials as may be competent to do so under the<br>f the applicable individual; if the applicant is an eligi-<br>vernment entity; or by the applicant's attorney in case of<br>blicant sphysical theos the official source from the |   |  |   |  |   |
| <b>G.</b> BE SURE ALL NECESSARY INFORMATION IS FURNISHED<br>AND ALL PARAGRAPHS ARE FULLY ANSWERED. IF ANY<br>PORTIONS OF THE APPLICATION ARE NOT APPLICABLE.<br>SPECIFICALLY SO STATE. DEFECTIVE OR INCOMPLETE<br>APPLICATIONS MAY BE RETURNED WITHOUT CONSIDER-<br>ATION.   |  | If netw<br>attach<br>made.  | pplicant, in the e<br>d, propose to bros<br>ork programs are<br>arrangements un<br>copios of any con<br>If the arrangement<br>statement of the   | dcast notword<br>to be broadc<br>der which the<br>intractual arrant<br>is based o | k programs?<br>ast, state as Ex<br>y are to be obta<br>ngement which<br>n an oral undors | ninod and<br>may bave boon<br>standing, a |
| FINANCIAL DATA<br>4. Give actual costs of making   | ng installation for which construction   | OB WEB Auth   | orized   |   |  |   |
| Transmitter proper<br>including tubes  | Antenna system, in<br>antenna - ground sy<br>coupling equipment<br>mission line  | cluding<br>stem,  | , Frequenc<br>modulation m   |   | Studio te<br>equipmont,<br>transcription ec  | microphonos,                              |
| \$ 66,915.3  | 0 s  |   | <b>s</b> 1,10  | 7.85  | \$   |   |
| Acquiring  | Acquiring or   |   | Other items,   | *   | Total  |   |
| land   | constructing   |   | state nature   | ·••   |  | 5   |

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\$6086.15; miscellaneous supplies \$648.21; Labor \$4, 111.71.

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| FINANCIAL D.  |   |   |  |   |  | Section 1,  |   |
|---|---|---|--|---|--|---|---|
|   | ATA (Continued)   |   |  |   |  |   |   |
| struction as<br>struction, a<br>is liconsee<br>nancial pos<br>exhibits nee  | Exhibit No. 1 (b)<br>thach as Exhibit No<br>of a broadcast station 1<br>ition within the past 12<br>ad not be supplied provi  | a, as at the completion date<br>of the actual cost of constr<br>- a detailed statement sho<br>having on file with the Comm<br>months and the request in t<br>ded that no substantial redu   | uction materially en<br>wing the plan used<br>dission an Annual F<br>bis application is f<br>ction in financial p                    | ceeds th<br>to finan<br>Financial<br>or a char<br>contion h   | e original est<br>co such const<br>Report (FCC<br>age in existing<br>as occurrod.)   | timatod cost of<br>ruction. (If ap<br>Form 324) sho<br>g facilities, th   | f con-<br>plicant<br>owing its f<br>ese |
| 5. State change   | os, if any, in capitaliza   | tion, and report any contract   | a flecting owners  | hip not a   | hown in the a  | pplication for  | constructio                             |
| permit (if i  | none, so state)   |   |  |   |  |   |   |
| one   |   |   |  |   |  |   |   |
|   |   |   |  |   |  |   |   |
| 7. Apart from t   | ho aparatus constructe  | d, have all the terms, condi  | tions, and   |   | <u> </u>   |   |   |
| obligations   | set forth in the above-d<br>fully met? If "No", sta   | escribed application for con  | struction  |   |  | Yes 🔀   | No                                      |
| ·   | ,, ,  |   |  |   |  |   |   |
|   |   |   |  |   |  |   |   |
| 3. Is a request   | for authority to conduc   | t program tests a part of this  | application?   |   |  | Yos X   | No                                      |
|   |   |   |  |   |  |   |   |
| the regulate  | cquests an authoriza  | waives any claim to the<br>ted States because of th<br>ation in accordance with   | e previous use o   | f the sa  | ame wherhe   | r by license  | Or other-                               |
| THE A<br>delaying de  | PPLICANT representermination on any o   | nts that this application<br>other application with w   | is not filed for<br>hich it may be in  | the purp<br>conflic   | oose of impe   | eding, obstru   | cting, or                               |
| THE A   | DDLICANT  |   |  |   |  | attached av   | hibire are                              |
| considered  | material representat  | ledges that all the state<br>tions, and that all the ex-  | ments made in th<br>thibits are a mat  | nis appl<br>erial pa  | ication and<br>it hereof an  | d are incorp  | orated                                  |
| considered  | material representat<br>set out in full in th   | e application.  | chibits are a mat  | nis appl<br>erial pa  | ication and<br>it hereof an  | d are incorp  | orated                                  |
| l certif  | material representat<br>f set out in full in th<br>fy that the statement  | cons, and that all the ex<br>e application.<br>CERTIF   | chibits are a mat  | erial pa  | rt hereof an   | d are incorp  | orated                                  |
| l certif  | material representat<br>f set out in full in th   | cons, and that all the ex<br>e application.<br>CERTIF   | chibits are a mat  | erial pa  | rt hereof an   | d are incorp  | orated                                  |
| I certif<br>and belief,   | material representat<br>f set out in full in th<br>fy that the statement<br>and are made in goo   | CERTIF<br>c application.<br>CERTIF<br>in this application are<br>d faith.   | thibits are a mat  | erial pa  | rt hereof an   | d are incorp  | orated                                  |
| I certif<br>and belief,   | material representat<br>f set out in full in th<br>fy that the statement<br>and are made in goo   | cons, and that all the ex<br>e application.<br>CERTIF   | thibits are a mat  | erial pa  | rt hereof an   | d are incorp  | orated                                  |
| I certif<br>and belief,<br>Signed and d   | f set out in full in th<br>fy that the statement<br>and are made in goo<br>lated this8th day of<br>ECTIVE JANUARY   | CERTIF<br>c application.<br>CERTIF<br>is in this application are<br>d faith.<br>December  | ilibits are a mat<br>ICATION<br>true, complete,<br>19.6.6.   | erial pa<br>and co  | rt hereof an<br>rrect to the   | d are incorp  | orated                                  |
| I certif<br>and belief,<br>Signed and d   | material representat<br>f set out in full in th<br>fy that the statement<br>and are made in goo<br>lated this8th day of<br>ECTIVE JANUARY<br>ING FEE WITH THIS  | CERTIF<br>c application.<br>CERTIF<br>s in this application are<br>d faith.<br>December, 1<br>1, 1964, INCLUDE<br>S APPLICATION.  | ilibits are a mat<br>ICATION<br>true, complete,<br>19.6.6.   | and con<br>gas T  | rt hereof an<br>rrect to the   | d are incorp<br>best of my k<br>on, Inc.  | orated                                  |
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| I certif<br>and belief,<br>Signed and d<br>EFFF<br>FIL<br>SEE P<br>WILLFUL<br>ARE PL                                    | material representat<br>f set out in full in th<br>fy that the statement<br>and are made in goo<br>lated this8th day of<br>ECTIVE JANUARY<br>ING FEE WITH THIS<br>PART 1 OF FCC RU<br>OF FEE<br>FALSE STATEMENT<br>JNISHABLE BY FINE  | CERTIF<br>CERTIF<br>s in this application are<br>d faith.<br>December   | ilibits are a mat<br>ICATION<br>true, complete,<br>19.6.6.   | and con<br>gas T  | rt hereof an<br>rrect to the   | d are incorp<br>best of my k<br>on, Inc.  | orated                                  |
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Greensp | ICATION<br>true, complete,<br>19.6.6.<br>Las Ve<br>By<br>Title<br>Title<br>pyee (1) by whom of<br>exhibit was prepare<br>b)<br>Tinke | and co.<br>gas 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|--|--|--|--|---|---|--|
| LICENSE APPL   |  |  |  |   |   |  |
|  | VISION BROAD   |  |  | s Television, Inc.  |   |  |
|  |  | onstruction per<br>File No. of co  | nit<br>astruction permit   | Aural transmitter   | A clied D   | C alternative of   |
| KLAS-T   |  | BPCT-  |  | radio stage, in amperos   | ' last radio  | . C. plate voltage of<br>stage, in volts   |
|  | requency   | Ca   | rrier frequency  | 1.3   | . ó   | 500  |
| t  |  |  | 181.24 Mc  | Plate input power to last   | Efficiency  | fuctor F of trans-   |
| 180  | 186  |  | 185.74 MG  | 8.450   | percent   | perating power, in<br>1.5%   |
| ffective Radiator<br>-/(visual)  | d Power Effecti<br>(aural)   |  | or Antenna height<br>above avorage   | Transmitter power output  |   | ission line meter  |
| In dia: 23.0   |  | : 13.01  | torain   | in dbk: 5.414   | reading   |  |
| 1 kw: 200  |  | 20.0   | 140<br>137 four  | 3.5   |   | 100  |
| 2. Station loca  |  |  | 1001   | C. Antenna and transmission<br>Antenna make and Type No.  |   | uons Power gain in db  |
| SLALO  |  | City or town   |  | eneral Electric   | 1   |  |
| Nevada   | 1  | Las V  | egas   | <u>TY28-F</u>   | 6   | 7.99   |
| State  | IOCALION   | County   | /  | Antonna supporting structure  |   |  |
| ' Nevada   |  | - Clark  |  | Ideco self-suppo  | orting  |  |
| City or town ]   | Hwy 91,  |  | s (or other identification,  |   |   |  |
| "l mi.so.d<br>Vegas Cit  |  | . !  | st Desert  |   |   |  |
| 4. Main studio   |  | <sup>s</sup> , Inn Ro  | bad  | Ovorall height of antenna syste   | m above groun   | <sup>d</sup> 241 ft. X   |
| State  |  | County   |  | Geographical coordinates of an  |   |  |
| Nevada   | 1  | Clark  |  | North latitude  | West longitud   | e j  |
| City or town H   | Jwy 91   | Street addres  |  | , 36°07'49" _   | - 115   | °09'52"  |
| l mi. so. c<br>Vegas Cit   |  | -  | st Desert  | If directional antenna is used,   | aive full datai   | - including to the state   |
| 5. Transmitter   |  | s Inn Ro   | bad  | and vertical plane radiation pat  | terns, as Exhi  | bit No   |
| Visual   |  |  |  | ls electrical or mechanical beam ti   | lting employed  | Yes No 🔀   |
| Make   |  | Type No.   |  | If so, describe fully in Exhibit No.<br>including horizontal and pertinent  | vertical radiation  | on patterns.   |
| C  |  | mmer   | In dbk: 15.44  | Has antenna been altered to pro   | vide null fill-   |  |
| General H  | Liectric   | TT51-B   | In kw: 35  | If so, describe fully in Exhibit<br>Transmission line   | No  |  |
| Make   |  | Туре No.   | Rated power  | Make  | Type No.  | Coaxial or waveguide   |
| 1<br>4   |  | [TT-32-  | In dbk: 7.4  | Andrew  | 562A  | Coaxial  |
| General E  | Clectric   | B  | In kw: 5.5   | Size (nominal inside transverse   | Length in fee   | Power loss in db   |
| Derating con   |  |  |  | dimensions) in inches   | 257   | for this length  |
| D. C. plate curren   | t.   | Applied D. C   |  | 3.027<br>Multiplexer  | 257   | .39 /  |
| in last radio stage  | 7.8  | voltage of la  |  | Make  |   | ype No.  |
| Transmitter power  |  | Stage, in vol  | Input to trans-  | <u>General Electric</u>   | :  1  | PY-16-C  |
| vestigial sideband<br>and after multiples  | I filter, if used,   | lin dh if sonara   | a interior line in   | If emergency antenna or transmi   | ssion line mea  | sures are provided,  |
| In dbk: 15   |  | transmit   |  | describe in Exhibit No  |   |  |
| 24   |  |  | 15.41  | 7. Modulation monitors  |   |  |
|  | . 8  | <u>lrating</u>   |  | (a) Visual monitor or monitor   | ing antiper   |  |
| Transmission<br>ine power  | . 8<br>Antenna input<br>power in dbk:  | Antenna pow<br>gain in db:   | er Effoctive radiator  | (a) Visual monitor or monitor<br>Make RCA, Conra  | Type No. (or  | doscribe in Exhibit  |
| Transmission<br>ine power<br>.oss in db:   | Antenna input<br>power in dbk:   | Antenna pow<br>gain in db:   | er Effective radiated<br>power<br>In dbk: 23.0   | Make RCA, Conrad  | Type No. (or  | doscribe in Exhibit<br>) Page 2  |
| Transmission<br>ine power<br>.oss in db:<br>0.39db   | Antenna input<br>power in dbk:<br>15.0   | Antenna pow<br>gain in db:<br>2 7.9  | er Effective radiated<br>power<br>In dbk: 23.0.<br>9 In kw: 200 kv   | Make RCA, Conrad  | Type No. (or<br>No. E   | describe in Exhibit  |
| Transmission<br>ine power<br>ors in db:<br>0.39db<br>Attach as Exhibit<br>method of power  | Antenna input<br>power in dbk:<br>15.0<br>t No. E co<br>output determine   | Antenna pow<br>gain in db:<br>2 7.9<br>omplete informati   | er Effective radiated<br>power<br>In dbk: 23.0   | Make RCA, Conra<br><u>General Electric</u><br>(b) Aural monitor<br>Make   | Type No. (or<br>No. E<br>Type No.   | doscribe in Exhibit<br>) Page 2  |
| Transmission<br>ine power<br>.oss in db:<br>0.39db<br>Attach as Exhibit<br>method of power<br>multiplexer, so s                  | Antenna input<br>power in dbk:<br>15.0<br>t No. E c.<br>output determine<br>tate.                                  | Antenna pow<br>gain in db:<br>2 7.9<br>omplete informati<br>ation. If power in   | Per Effoctive radiated<br>power<br>In dbk: 23.0.<br>In kw: 200 kv<br>on concerning the<br>s measured at output of                                | Make RCA, Conrat<br><u>General Electric</u><br><u>(b) Aural monitor</u><br>Make<br>General Radio  | Type No. (or<br>No. E   | doscribe in Exhibit<br>) Page 2  |
| Transmission<br>ine power<br>oss in db:<br>0.39db<br>Attach as Exhibit<br>method of power<br>multiplexer, so s<br>Reading of pow | Antenna input<br>power in dbk:<br>15.0<br>t No. E c.<br>output determini-<br>tate.<br>er output mete               | Antenna pow<br>gain in db:<br>2 7.9<br>omplete informati<br>ation. If power in<br>r (transmission                      | er Effoctive radiated<br>power<br>In dbk: 23.0.<br><u>In kw:</u> 200 kv<br>on concerning the<br>s measured at output of<br>line voltage, current | Make RCA, Conra<br><u>General Electric</u><br>(b) Aural monitor<br>Make   | Type No. (or<br>No. E<br>Type No.   | doscribe in Exhibit<br>) Page 2  |
| Transmission<br>ine power<br>oss in db:<br>0.39db<br>Attach as Exhibit<br>method of power<br>multiplexer, so s<br>Reading of pow | Antenna input<br>power in dbk:<br>15.0<br>t No. E c.<br>output determini-<br>tate.<br>er output mete               | Antenna pow<br>gain in db:<br>2 7.9<br>omplete informati<br>ation. If power in<br>r (transmission                      | Per Effoctive radiated<br>power<br>In dbk: 23.0.<br>In kw: 200 kv<br>on concerning the<br>s measured at output of                                | Make RCA, Conrat<br><u>General Electric</u><br><u>(b) Aural monitor</u><br>Make<br>General Radio<br>8. Frequency monitors   | Туре No. (о<br>No. Е<br>Туре No.<br>1183                                    | doscribe in Exhibit<br>) Page 2  |
| Transmission<br>ine power<br>oss in db:<br>0.39db<br>Attach as Exhibit<br>method of power<br>multiplexer, so s<br>Reading of pow | Antenna input<br>power in dbk:<br>15.0<br>t No. E c.<br>output determini-<br>tate.<br>er output mete               | Antenna pow<br>gain in db:<br>2 7.9<br>omplete informati<br>ation. If power in<br>r (transmission<br>le operating at i | er Effoctive radiated<br>power<br>In dbk: 23.0.<br><u>In kw:</u> 200 kv<br>on concerning the<br>s measured at output of<br>line voltage, current | Make RCA, Conrat<br><u>General Electric</u><br>(b) Aural monitor<br>Make<br>General Radio<br>8. Frequency monitors<br>(a) Visual monitor<br>Make<br>General Radio | Type No. (or<br>No. E<br>Type No.<br>1183<br>Normal limits<br>frequency sho | describe in Exhibit<br>) Page 2<br>-T2<br>of deviation of carrier<br>wa by monitor |
| Transmission<br>ine power<br>.oss in db:<br>0.39db<br>Attach as Exhibi<br>method of power<br>multiplexer, so s<br>Reading of pow | Antenna input<br>power in dbk:<br>15.0<br>t No. E c.<br>output deterministate.<br>er output mete<br>ate which) whi | Antenna pow<br>gain in db:<br>2 7.9<br>omplete informati<br>ation. If power in<br>r (transmission<br>le operating at i | er Effoctive radiated<br>power<br>In dbk: 23.0.<br><u>In kw:</u> 200 kv<br>on concerning the<br>s measured at output of<br>line voltage, current | Make RCA, Conrat<br><u>General Electric</u><br>(b) Aural monitor<br>Make<br>General Radio<br>8. Frequency monitors<br>(a) Visual monitor<br>Make                  | Type No. (or<br>No. E<br>Type No.<br>1183<br>Normal limits<br>frgquency sho | describe in Exhibit<br>) Page 2<br>-T2<br>of deviation of carrier<br>wa by monitor |

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| c 11   | deast Application TELUVISION BROADCAS  | ST ENGINEERING DATA Section II-C, Page 2  |
|--|--|---|
|  | Continued)   | 10. Performance data - Aural transmitter  |
| (b)<br>Make<br>Type<br>1183<br>If eit<br>oxces<br>doscr<br>or fre<br>d t<br>9. P<br>9. P | Aural monitor  | Attach as Exhibit No. E data, diagrams, and appr<br>graphs together with description of measurement procedures<br>instruments with regard to the following: (All measurements<br>be made with the equipment adjusted for normal program ope<br>and shall include all circuits between the main studio micre<br>terminals and the anterna output, including telephone lines;<br>emphasis circuits and any equalizers employed except for m<br>mones, and without compression if a compression amplifier<br>installed.)<br>a. Audio frequency response from 50 to 15,000 cycles for a<br>proximately 25, 50 and 100 percent modulation. Measureme<br>shall be made on at least the following audio frequencies:<br>150, 400, 1060, 5000, 10,000 and 15,000 cycles. The frequencies:<br>emphasis; however, standard 75 microsecond deemphasis m<br>employed in the measuring equipment or system provided th<br>curacy of the doemphasis circuit is sufficient to insure that<br>measured response is within the prescribed limits.<br>b. Audio frequency harmonic distortion for 25, 50 and 100 percented limits. |
| b. A<br>way<br>stur<br>the<br>the<br>c. A<br>take  | or greater;<br>A description of the equipment and technique used in<br>making these measurements.<br>Attach as Exhibit No. E data demonstrating that the<br>form of the transmitted signal conforms to that specified by the<br>dards. Until the form of these measurements may be specified by<br>Commission, the character of this data is left to the discretion of<br>applicant.<br>Attach as Exhibit No. E a photograph of a test pattern<br>en from a receiver or monitor connected to the transmitter<br>put. | <ul> <li>and 5000 cycles. Audio frequency harmonics for 100 porcest modulation for fundamental frequencies of 10,000 and 15,000 cycles. Measurements shall normally include harmonics to 30,000 cycles. The distortion measurements shall be made ploying 75 microsecond deemphasis in the measuring equipt or system.</li> <li>c. Output noise level (frequency modulation) in the band of 15,000 cycles in docibels below the audio frequency level routing a frequency swing of 25 kilocycles. The noise measuring equipment or system.</li> <li>d. Output noise level (amplitude modulation) in the band of 15,000 cycles in decibels below the level representing 100 amplitude modulation. The noise measuring equipment or system.</li> </ul>  |
| 11. In<br>the p  | what respect, if any, does the apparatus constructed differ froermit?  | I<br>om that described in the application for construction permit or  |
| 11. In the p   | what respect, if any, does the apparatus constructed differ fro<br>permit?<br>Does not differ from that describ<br>construction permit.  |   |
| 11. In the p   | Does not differ from that describ  |   |

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| <u>123 V.C.S. PELEVISION, I.C S.LACA SPEET, AS</u>  | AR SEPTEMBER 3  | <u>0, 1955</u>                   |
|---|---|----------------------------------|
| <u>AUSATE</u>   |   |                                  |
| Current AssetsCash:Petty CashDemond Deposits in Bank2,279.82Accounts Receivable:Regular TradeDue from Employees642.43   | 2,336.90  |                                  |
| A/C Rec. Las Vegas Sun<br>""Claims<br>Less Reserve f. Bad Debts<br>Accrued Interest Receivable<br>Film Inventory  | 92,053.49<br>5,200.00<br>228,462,49                         |                                  |
| Total Current Assets:   |   | 328,052.88                       |
| Fixed Assets<br>Equipment & Leasehold Improvements<br>Less:Reserve f. Depreciation &<br>Amortization  | 1,002,225.52<br>(651,524.75)<br><u>28502800888</u>          |                                  |
| Total Fixed Assets:   |   | <u>kzrzz</u> 2&x?z<br>350,700.77 |
| <u>Deferred Assets</u><br>Investment Tax Credit<br>Cash Surrender Value of Insurance<br>on Lives of Officers<br>Prepaid Life Insurance Premium<br>Prepaid Insurance<br>Prepaid Interest | 1,103.65<br>42,920.89<br>1,325.78<br>21,505.36<br>24,865.99 |                                  |
| Total Deferred Assets:  |   | 91,721.67                        |
| Other Assets<br>Befundable Deposits<br>Investment - Alta Corp.<br>Intangible Assets<br>Organization Costs<br>Note Receivable - Alta Corp.   | 202.00<br>9,629.53<br>4,994.47<br>10,559.83<br>80,000.00    |                                  |
| Total Other Assets:   |   | 105,385,83                       |
| TOTAL ASSETS:   |   | 875,861.15<br>******             |

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|----------|--|-------------------------|-----------------------------------|-------------------------|
| s        | <u>Current Linbilities</u><br>Notes & Accounts Pryable:<br>A/C Payable - Trade<br>A/C Payable - L.V.Sun  | 48,767.39<br>131,765.59 |                                   |                         |
|          | Notes & Contracts Payable-<br>Due Within One Year  | 1,6,227.10              |                                   |                         |
|          | Film Costs Payable - Due<br>Within One Year  | 111,219.56              |                                   |                         |
|          | Due to Officer -   | 1                       |                                   |                         |
|          | H.M.Greenspun<br>Accrued Payroll<br>Payroll Taxus Accrued and  | (16,009.00)             | 431,970.64<br>9,897.16            |                         |
|          | Payroll Taxes-Accrued and<br>Withheld  |                         | 2 100 11                          |                         |
|          | Accrued Property Tax   |                         | · 3,440.66<br>(5,445.84)          |                         |
|          | Accrued Interest Payable   |                         | 6,865.64                          |                         |
|          | Accrued Music Fees   |                         | 19,235.03                         |                         |
|          | Total Current Liabilities  | 3:                      |                                   | 465,963.29              |
| ·        | <u>Fixed Liabilities</u><br>Notes & Contracts Payable-<br>Due After One Year<br>Film Costs Payable-Due After<br>One Year   |                         | 292,102.45<br>66,035,17           |                         |
|          | Total Fixed Liabilities:<br>Deferred Investment Credit In  | ncome:                  |                                   | 358,137.62<br>27.674.19 |
|          | TOTAL LIABILITIES:   |                         | •                                 | 851,775.10              |
| <u>N</u> | ET WORTH   |                         |                                   |                         |
|          | Capital Stock Issued, 2200 Shar<br>Par Value \$100 Per Share<br>Less: Treasury Stock at Cost<br>Earned Surplus:<br>Balance, January 1, 1965<br>and 1964, Respectively<br>Net Profit for Period, Add: | 20,000.00               | (110,156.25)<br><u>134,242.30</u> |                         |
|          | TOTAL NET WORTH:   |                         |                                   | _24,086.05              |
|          | TOTAL LIABILITIES AND NET WORTH  |                         |                                   | 875,861.15              |
|          |  | -                       |                                   | ****                    |

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## EXHIBIT "E"

## ENGINEERING REPORT

of measurements made in support of

Proof of Performance

at

KLAS -TV

Channel 8

Las Vegas, Nevada



(m.)

This report prepared by:

Broadcast Service Engineering General Electric Company, Electronics Park Syracuse, New York TABLE OF CONTENTS

| Section  | Description  | Page        |
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|          | Overall Transmission System Diagram                            | 2           |
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| 2        | Frequency Measurements   | 4           |
| 3        | Overall Amplitude Versus Frequency Response-Visual Transmitter | r 5         |
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| 11       | Aural AM Noise Measurements                                    | 20          |
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## Introduction and Affidavit

This engineering report was prepared in support of a proof of performance of a General Electric type\_TT-46 transmitter in the television service operated by

licensee of station KLAS-TV operating on assigned frequencies of 181.25 and 185.75 \_MHZ. The transmitter is located at 250 East Desert Inn Road, Las Vegas, Nevada

Measurements were made by or under the direct supervision of R. E. Schenke a General Electric Broadcast Service Engineer who has sworn the following affidavit.

#### Affidavit

State of: Nevada

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County of: Clark

Robert E. Schenke being duly sworn upon oath, deposes and states that:

The General Electric Company was retained by KLAS-TV

of Las Vegas, Nevada

to prepare this engineering statement.

The engineering data was obtained by him or under his supervision and direction.

That all facts stated herein are true of his own knowledge, except for such facts as are stated to be on information and belief and as such facts he believes them to be true.

Broadcast

Service Engineering

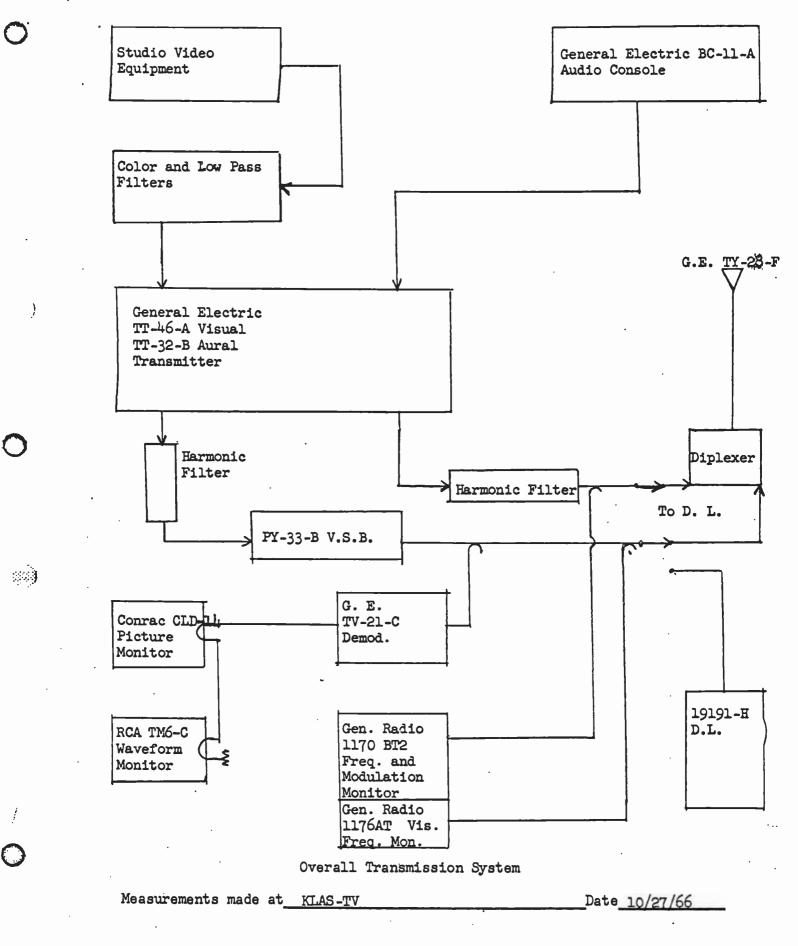
Subscribed and sworn to before me on this day of November 1st

Notary Public



10-1-70 My commission expires

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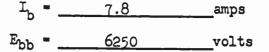
#### 1. Power Measurements

A. Visual' Transmitter

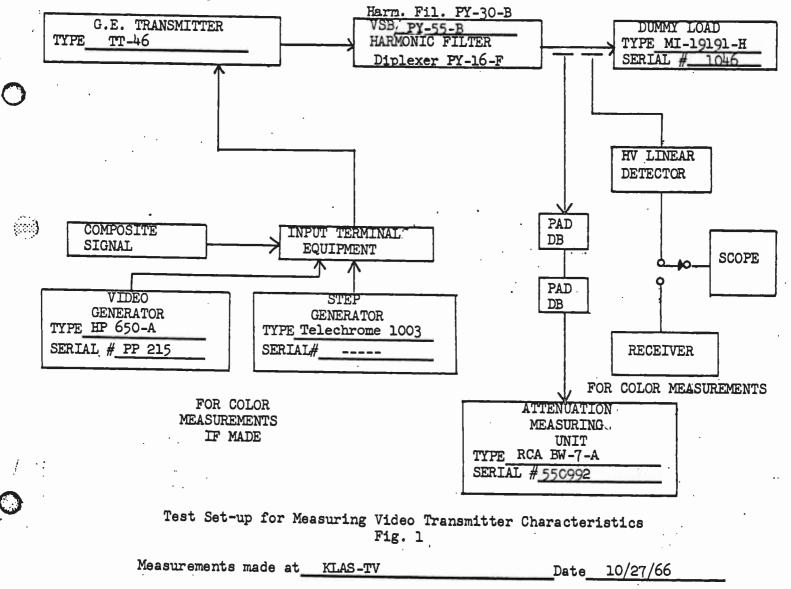
General Electric transmitter typeTT-46-A operated into dummy loadtypeRCA MI-19191Hserial #1046with standard black picturewith 25% sync out of transmitter.Average Power20.7KW measured in the dummy load.Peak power output =20.7x 1.68 =34.8KW

Peak output power indicating meter set to read at <u>100</u> units for this power level.

PA DC Plate voltage and plate current at this power level are:



Test set up is as shown below:



-3-

B. Transmission Line

| B. Transmission Line                               |                              |
|--|------------------------------|
| Make <u>Andrew</u> Type <u>562A</u> Size_          | <u>3-1/8"</u> Length 257 '   |
| Line loss  | db                           |
| Diplexer power loss                                | Negligibledb                 |
| Total losses                                       | -39 db                       |
| Antenna input power15.02                           | db                           |
| Antenna gain7.99                                   | db                           |
| Effective radiated power23.01                      | dbk                          |
| 200  | KW                           |
| C. Aural Transmitter                               | _                            |
| DC plate voltage, final stage E <sub>bb</sub> =    | 6500 volts                   |
| DC plate current, final stage Ib =                 | 1.3 amp's:                   |
| Input power to final stage EbIb =                  |                              |
| Output power as measured in the dummy load         |                              |
|  | 5.4 <u>1</u> 4 dbk           |
| Efficiency factor                                  | 41.5%                        |
| Output power indicating meter reading set t        |                              |
| this power level.                                  |                              |
| Frequency Measurements None made.                  |                              |
| Frequency measurements of both the aural and       | Visual transmitter some mede |
| on Date:by   |                              |
| At the time of measurements, aural and visual crys |                              |
| on the exact authorized frequencies. Frequency me  |                              |

on the exact authorized frequencies. Frequency measurements reports are attached at end of this report.

| General Radio | type1183-T2            | frequency monitor serial                 |
|---------------|------------------------|--|
| #1020         | is used to monitor the | operating frequency of visual carrier.   |
| General Radio | type1183-T2            | frequency monitor serial                 |
| # <u>630</u>  | is used to monitor the | operating frequency of the aural carrier |

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- 3. Overall amplitude versus frequency response-visual transmitter
  - A. Test Equipment The equipment was set up as shown and identified in Figure #1.
  - B. Test Procedure

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The visual transmitter was adjusted for CW operation at midcharacteristic (43% of sync peak level.) It was then modulated by a signal from a type <u>H.P. 650A</u> Serial # <u>PP215</u> Generator. The modulation was set so that the excursions were approximately 70% (max.) of the reference white to reference black region. A selective receiver <u>RCA</u> model <u>BW7A</u> serial # <u>550992</u> was used to select and measure the signal level of each of the sidebands of the modulating frequency. <u>500</u> KHZ upper sideband was chosen as reference level since it was the lowest modulating frequency that could be accurately separated from the carrier. Measurements were made at the modulation frequencies tabulated on page 6, and results plotted on the graph on page 7.

Measurements made at

KLAS-TV

10/27/66

-5-

Date

| Tabulation | of | Overall | Amplitude | vs. | Frequency | Response |
|------------|----|---------|-----------|-----|-----------|----------|
|            |    |         |           |     |           |          |

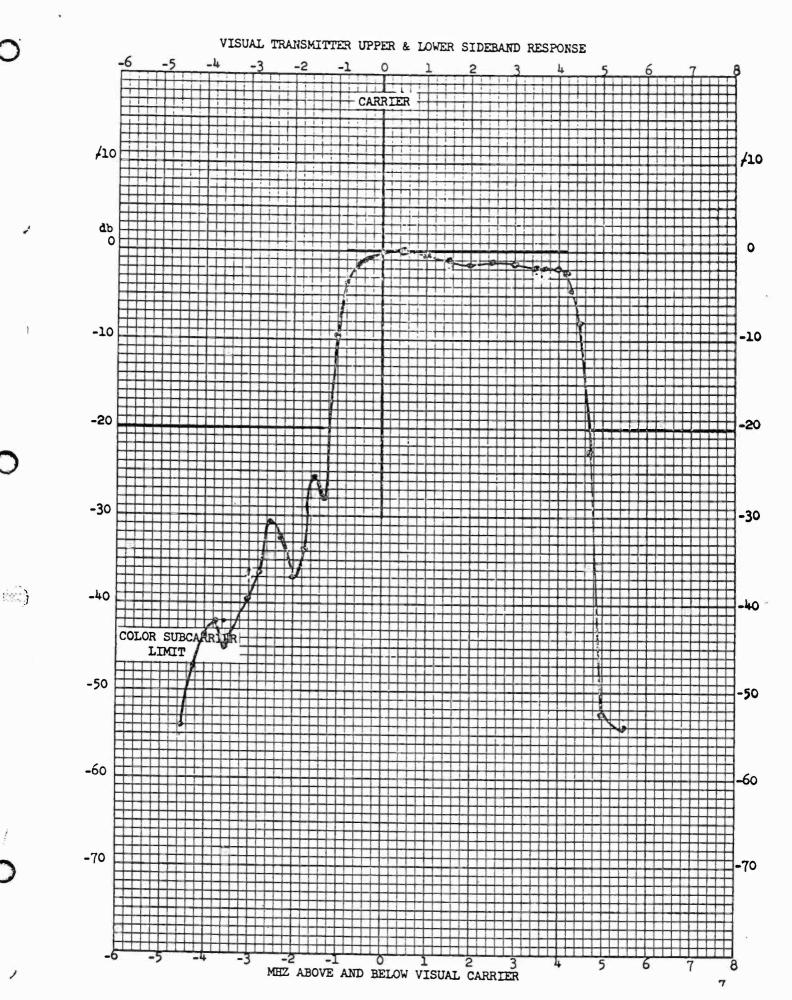
| dulation Frequency |                   | Upper Sideband | Lower Sideband    |   |  |
|--------------------|-------------------|----------------|-------------------|---|--|
| MHZ                | Relative<br>Volts | db             | Relative<br>Volts | <u>db</u>                                 |  |
| .500               | 10 x 100          | 0              | 8.5 x 100         | -1.4                                      |  |
| .750_              | 9.8 x 100         | 02             | 6.5 x 100         | -3.7                                      |  |
| 1.000              | <u>9.8 x 100</u>  | 02             | 3.3 x 100         | -9.6                                      |  |
| 1.250_             | 9.2 x 100         | 8              | 4.0 x 10          | -28.0                                     |  |
| 1.500              | 9.0 x 100         | -1.0           | 5.2 x 10          | -25.6                                     |  |
| 1.750              | 8.5 x 100         | -1.4           | 2.0 x 10          | -34                                       |  |
| 2.000              | 8.5 x 100         | -1.4           | 1.4 x 10          | -37                                       |  |
| 2.100              | 8.5 x 100         | -1.4           |                   | · · · · · · · · · · · · · · · · · · ·     |  |
| 2.250              | 8.5 x 100         | -1.4           | 2.4 x 10          | -32.4                                     |  |
| 2.500              | 8.8 x 100         | -1.1           | 3.0 x 10          | -30.4                                     |  |
| 2.750              | 8.6 x 100         | -1.3           | 1.5 x 10          | -36.4                                     |  |
| 3.000              | 8.5 x 100         | -1.4           | 1.1 x 10          | -39.2                                     |  |
| 3.500              | 8.2 x 100         | 1.8            | 6.5 x 1           | -43.8                                     |  |
| 3.580              | 8.2 x 100         | -1.8           | 5.8 x 1           | _44.8                                     |  |
| 3.750              | 8.0 x 100         | -1.9           | 7.0 x 1           | _43 .                                     |  |
| 4.000              | 8.0 x 100         | -1.9           | 6.5 x 1           | -43.8                                     |  |
| 4.180_             | 7.6 x 100         | -2.4           |                   |   |  |
| 4.250_             | 6.0 x 100         | -4.4           | 4.5 x 1           | -47                                       |  |
| 4.500              | 4.0 x 100         | -8.0           | 2.0 x 1           | -54                                       |  |
| 4.750_             | 7.2 x 10          | -22.8          |                   |   |  |
| 5.000              | <u>3.0 x 1</u>    | -52.6          |                   | · · ·                                     |  |
| 5.500              | 2.0               | -54.0          |                   |   |  |
| 6.000              | Noise.            |                | <b>-</b>          |   |  |
| 6.500              | Noise             |                |                   |   |  |
| 7.000              | Noise             |                |                   | Measurements Made                         |  |
| 7.500              | Noise             |                | -                 |   |  |
| 8,000              | Noise             |                | · ·               | At <u>KLAS-TV</u><br>Date <u>10/27/66</u> |  |

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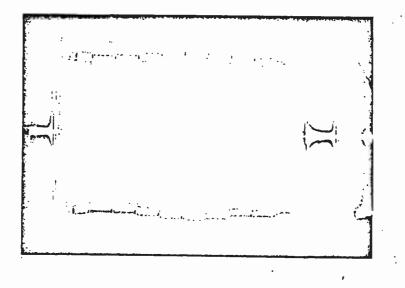
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## 4. Linearity Check-Differential Gain-Differential Phase

A. Output linearity of the transmitter was checked by modulating it with a composite signal consisting of a stair step signal with 20% peak-to peak 3.58 MHZ superimposed on the steps (minimum of eight steps). This test signal supplied by a <u>Telechrome</u> type 1003C serial # \_\_\_\_\_ stair step generator at rated sync and rated output power. The depth of modulation was set to 12½% of sync peak as observed on a vestigial sideband demodulator. A photograph of this measurement as viewed on an oscilloscope with a high pass filter inserted in the system is shown below. The test equipment is as shown on Page 3. Readings of the relative gain of the system are tabulated together with the phase measurements Page 9: (Differential gain and phase were measured using a high voltage linear diode).



Measurements made at KTA

1

KLAS-TV

Date- 10/27/66

-8-

B. The differnetial phase was measured by employing a stair step signal as in A. The phase and gain readings were recorded in degrees as shown in the following table:

| Step No.<br>Burst | Phase Angle | Relative Gain |
|-------------------|-------------|---------------|
| l (Back Porch)    | υ           | 9.5           |
| 2                 | +0.5        | 9.0           |
| 3                 | +1.0        | 9.0           |
| L;                | +1.0        | 9.2           |
| 5                 | +2.0        | 9.8           |
| 6                 | +2.5        | 10            |
| 7                 | +3.0        | 9.6           |
| 8                 | +4.0        | 9.1           |
| 9<br>30           | +5.0        | 9.0           |
| 10 (White level)  | <u>→6.0</u> | 8.6           |

Differential gain = Min. Gain Max. Gain 10 = 86%

Measurements made at KLAS-TV

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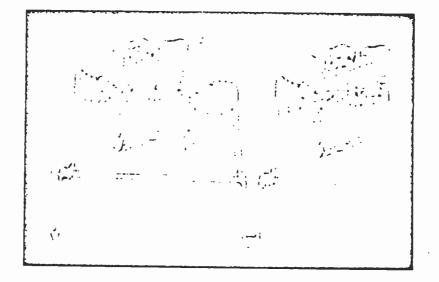
-9-

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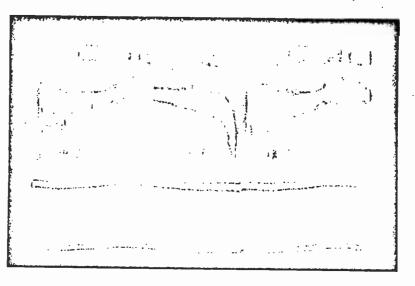
Date 10/27/66

5. Photographs of Horizontal and Vertical Sync Intervals.

Photographs of horizontal and vertical sync intervals are shown below:



Horizontal Sync Interval



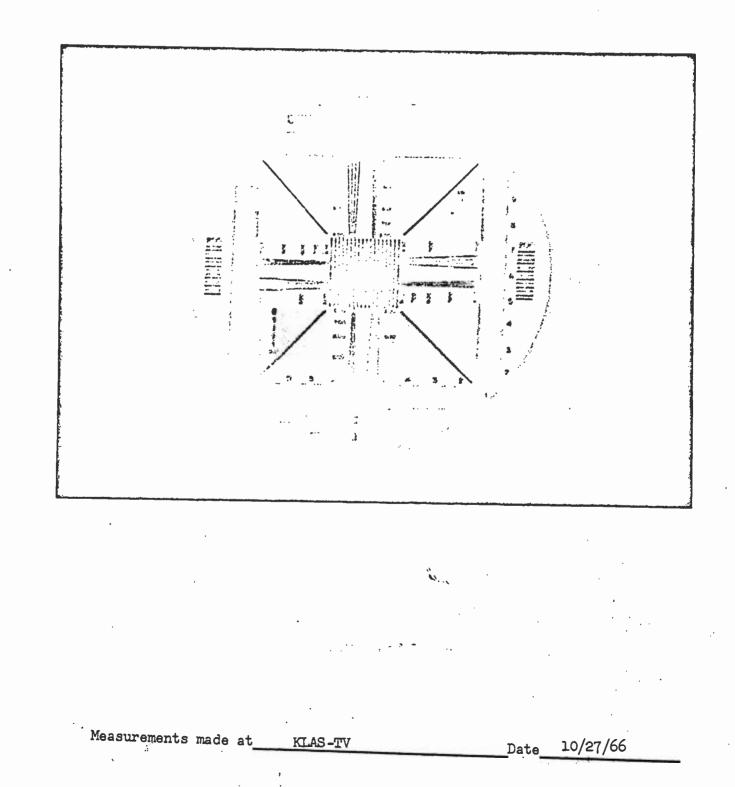
Vertical Sync Interval

and well any provide the second se

Measurements made at KLAS-TV Date 10/27/66

# 6. Test Pattern

(ب) الرب Picture of station test pattern through the system and detected by the Demodulator type TV-21-B



-11-

## 7. Diode Demodulator Response

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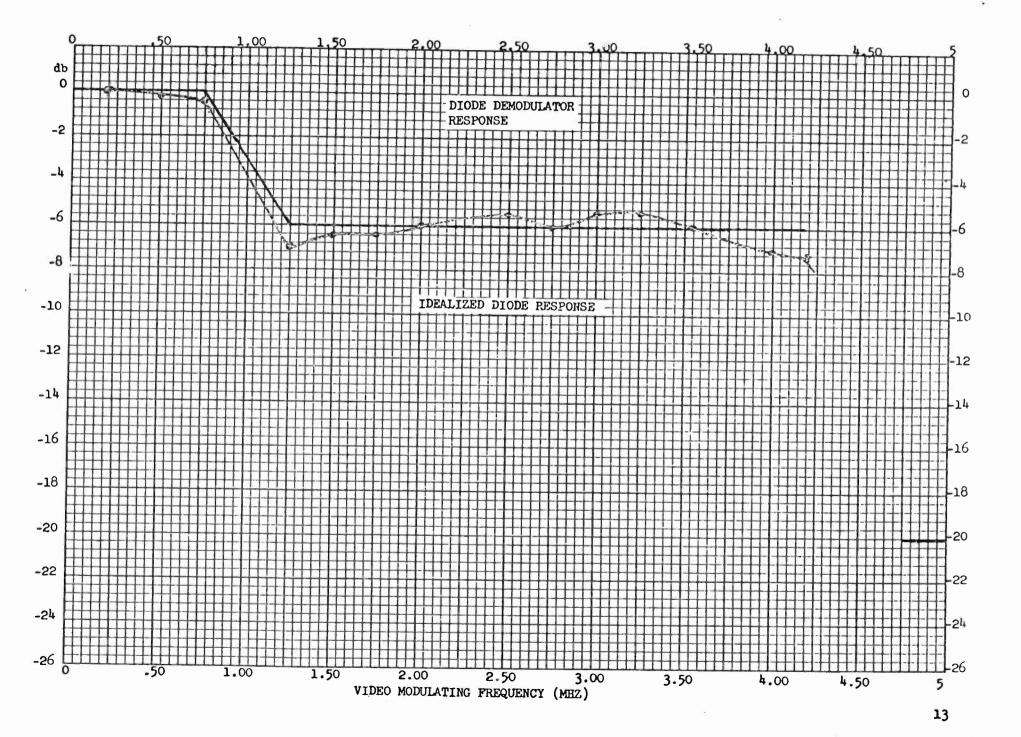
...)

Diode demodulator amplitude vs. frequency response was determined using the test set up shown in Figure 2, Page 18 with the exception that the diode demodulator output was connected to a <u>524AD</u> scopecand the output: will read by scaling from the scope. A graph of the response is attached on page 13.

# Tabulation of Diode Demodulator Response

| Modulating Frequency               | Relative Voltage | db           |
|------------------------------------|------------------|--------------|
| MHZ                                |                  | . •          |
| 0.20                               | 10               | 0            |
| 0.50                               | 9.8              | -0.2         |
| 0.75                               | 8.0              | -2.0         |
| 1.25                               | 4.5              | -7.0         |
| 1.5<br>1.75                        | 4.8              | -6.4         |
|                                    | 5.0              | -6.0         |
| 2.0<br>2.10                        | 5.0<br>5.0       | -6.0<br>-5.0 |
|                                    | 5.0              | -6.0         |
| 2.25<br>2.50                       | 5.2              | -5.7         |
| 2.75<br>3.00                       | 5.0              | -6.0         |
| -                                  | 5.2              | -5.7         |
| 3.25<br>3.58                       | 5.2              | -5.7         |
|                                    | 4.8              | -6.0         |
| 3.75<br>4.00                       | 4.5              |              |
| 4.18                               | 4.5              | -7.0         |
| 4.75                               | Unreadable       |              |
|                                    |                  |              |
|                                    |                  | · · ·        |
|                                    |                  |              |
|                                    |                  | •            |
|                                    | •                |              |
|                                    |                  |              |
|                                    |                  |              |
| •                                  |                  |              |
| Measurements made at <u>KLAS</u> - | <u>-TV</u> Date  | 10/27/66     |
|                                    |                  |              |

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## .8. Audio Frequency Response-Aural Transmitter

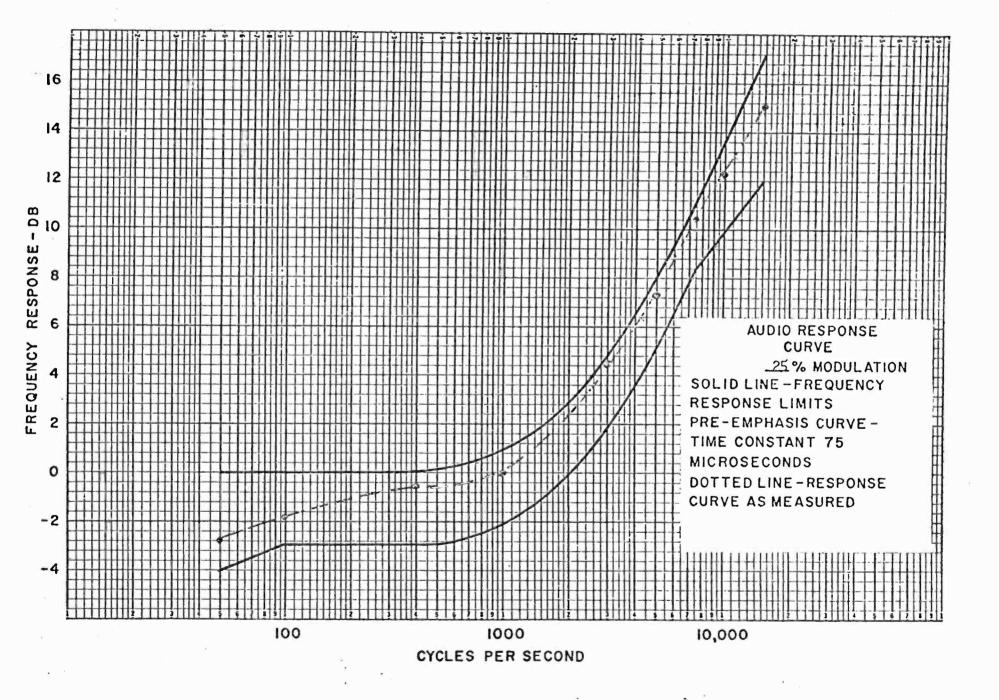
Tast set up for measuring the overall audio frequency response is shown in Figure 2, Page 18. The aural transmitter was modulated while operating at rated power, to 25%, 50%, 100% modulation as indicated by the station modulation monitor. A modulating tone was supplied by an audio oscillator <u>HP</u> type 206 serial #<u>766</u> at the frequencies tabulated below, with the modulation percentage held constant at <u>1000</u> ccycles was used as a reference level and the increases or decreases in level required to maintain the percentage modulation constant was converted to db and tabulated. The signal was introduced at the main studio microphone terminal and passed through the audio system to the aural transmitter. Limiter actions in the limiting amplifiers were disabled for these tests. Curves of these results are shown on Pages 15, 16, and 17.

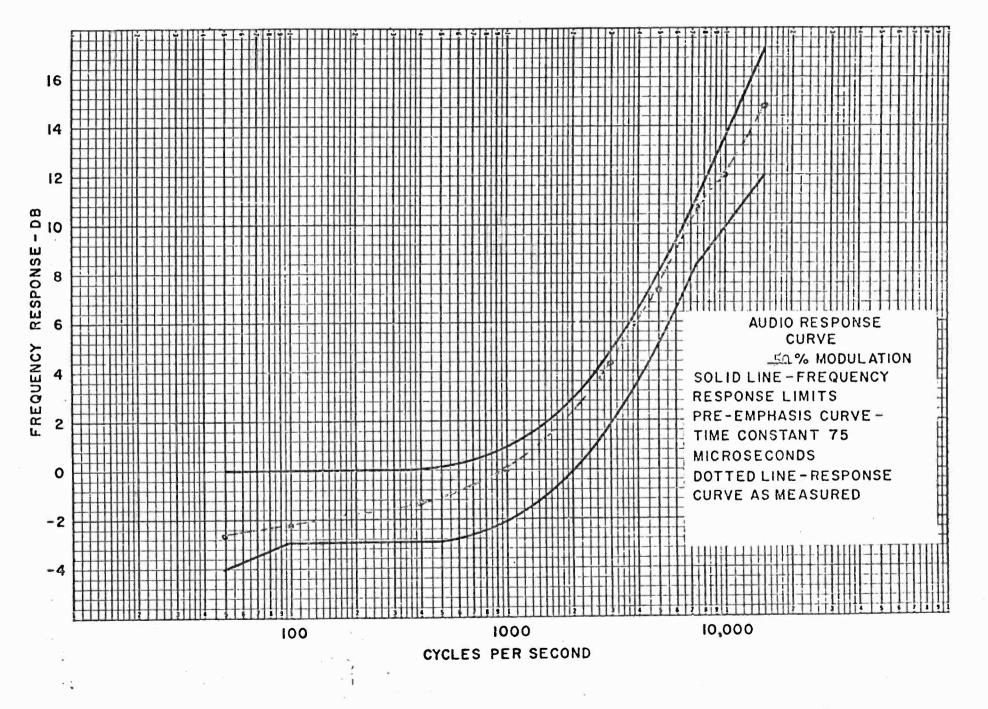
## Audio Frequency Response

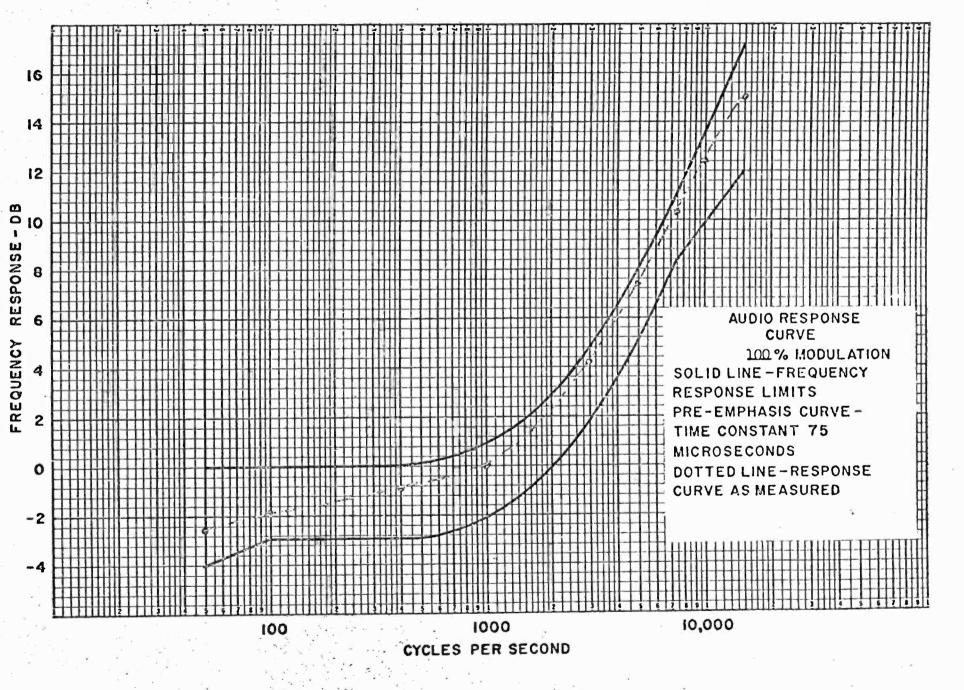
12.23)

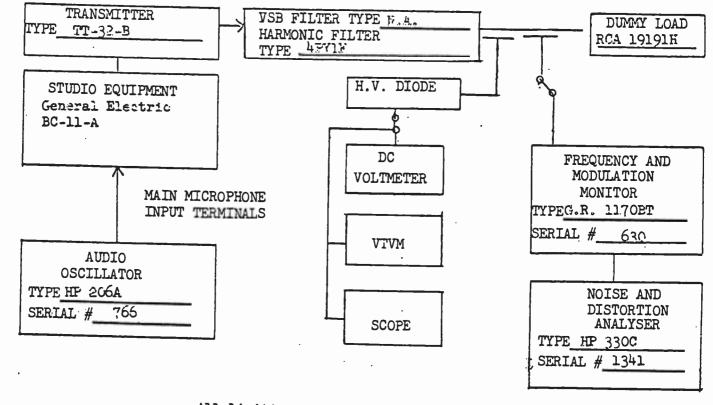
| Frequency | 25% Mod.    | 50% Mod. | 100% Mod. |
|-----------|-------------|----------|-----------|
| 50        | -2.6        | -2.7     | -2-3      |
| 100       | _1.9        | 2.2      | -1.9      |
| 400       | 0.5         | <u> </u> | -0.9      |
| 1000      | 0           | 0        | 0         |
| 2500      |             |          |           |
| 5000      | <u>+7°4</u> | +7.4     | +7.5      |
| 7500      | _+10.5      | +10.5    | +10.3     |
| 10000     | _+12.2      | +12.0    | +12.4     |
| 15000     | +15.0       | +14.8    | +15.0     |

| Measurements | made | at | KLAS -TV | Date | 10/ | /27/66 |       |
|--------------|------|----|----------|------|-----|--------|-------|
| 1.1          |      | *  |          |      | •.  | ·      |       |
|              |      |    | •        |      | -   |        | -1/1- |









## All limiting amplifiers disabled

Test Set-up for Measuring Aural Transmitter Characteristics

Fig. 2

.9. Audio Harmonic Distortion Measurements

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The Audio harmonic distortion products were measured using the set up shown

in Figure 2. The aural transmitter was operated at rated power and

measurements were made for selected frequencies at 25%, 50%, 100% modulation.

The audio frequencies as tabulated below were supplied by an audio oscillator ਂ ਸ਼ਾਨ

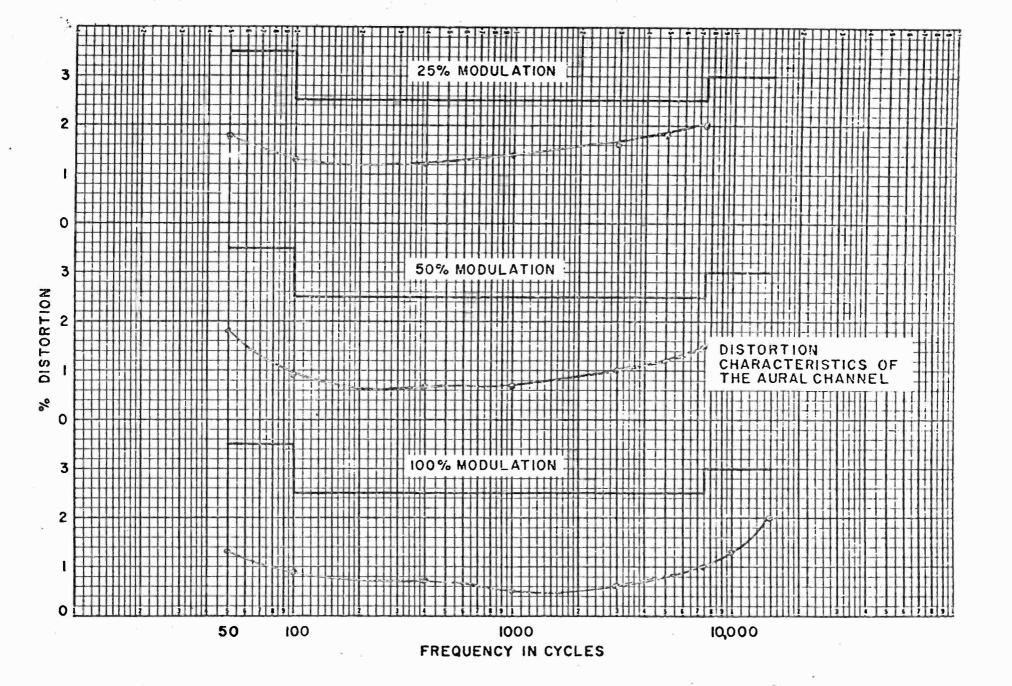
| • | no Fe       | type200A               | Serial #766               | Audio          |
|---|-------------|------------------------|---------------------------|----------------|
|   | distortion  | products were read dir | rectly on noise and disto | rtion analvzer |
|   | H.P.        | type3303               | serial #1341              | A graph        |
|   | of these re | sulte is chorm on Dear | 0.0                       |                |

of these results is shown on Page 20.

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| Modulation Frequency<br>Cycles | Percentage Distortion |          |         |  |
|--------------------------------|-----------------------|----------|---------|--|
|                                | 100% Mod.             | 50% Mod. | 25% Moc |  |
| 50                             | 1.3                   | <u> </u> | 1.4     |  |
| 100                            | 0.9                   | 0.9      |         |  |
| 400                            |                       |          | 1.3     |  |
| 1000                           | 0.7                   | 0.7      | 1.1     |  |
| 2500<br>5000                   | 0.9                   | 1.2      | 1.8     |  |
| 7500<br>10000                  | 1.3                   | 1.5      | 2.0     |  |
| 15000                          | 2.0                   | •        |         |  |

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10. Aural FM Noise Measurement

FM noise level was measured using the test set up shown in Fig. 2. A 400 cps signal was fed in the system at main microphone input. This was used to establish 0 db reference at 100% modulation. The signal was removed from the aural transmitter and the transmitter input shunted by its rated input impedance.

Residual FM noise level is 58 db below 100% modulation with 400 cps.

AM noise was measured using a diode detector in the aural RF transmission line. The RF probe was inserted in the output transmission line to give a <u>4.0</u> VDC signal. With a noise and distortion analyzer connected to the diode, the residual noise voltage read <u>.005</u> volts (RMS).

Signal to noise ratio was 20 log<sub>10</sub><u>.707 (DC Voltmeter)</u> = <u>55.0</u>db (N&D Analyzer Reading)

Measurements made by KLAS-TV Date 10/27/66

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13: Measurements of Spurious and RF Harmonic Measurements

RF harmonic level for the aural and visual transmitting systems were made using the equipment set up shown in Figure #3. The aural transmitter was operated at rated power and the visual at rated black level power. A directional probe was inserted in the transmission line, beyond the harmonic filter and the GR unit oscillator tuned to a frequency of carrier frequency  $\pm 30$  MHZ. The probe depth was then adjusted to give a convenient reference level and locked in that position. Fundamental rejection filters were then inserted as shown in Figure #3 and tuned for maximum fundamental rejection. The oscillator was then tuned to each harmonic frequency  $\pm 30$  MHZ and harmonic level read in db below carrier reference. Corrections for directional probe and fundamental filters were made and the results of measurements on the aural and visual RF harmonics were then tabulated below.

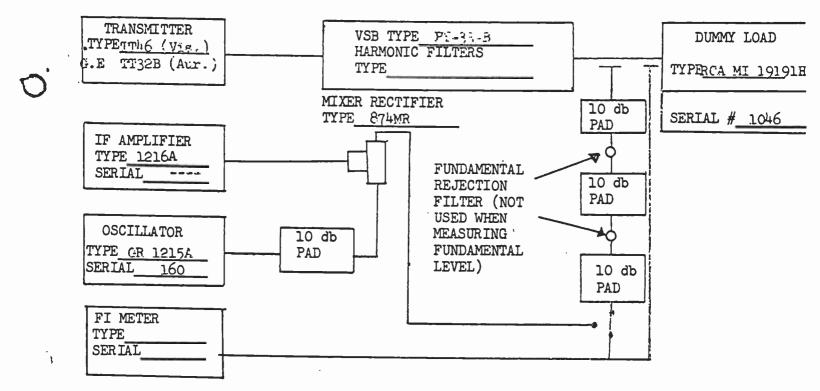
| Harmonic | Visual Transmitter<br>db below fundamental | Aural Transmitter<br>db below fundamental |
|----------|--|---|
| 2        | 90 db                                      | better than 90                            |
| 3        | better then 90                             | better than 90                            |
| 4        | vareadable                                 | arresistle                                |
| 5        | upresiable                                 | vereadable                                |
| 6        |  |   |
| 7        |  |   |
| 8        |  |   |
| 9        |  |   |
| 10       |  |   |

Measurements made by KLAS-TV Date

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10/27/66



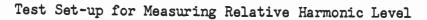
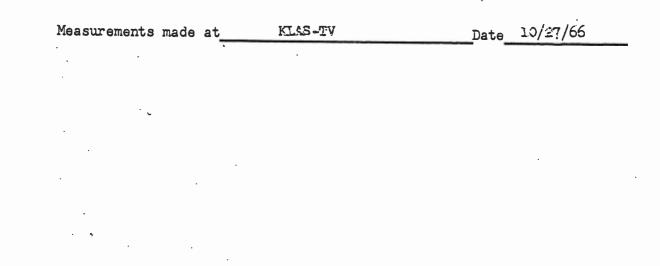


Fig. 3

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#### EXHIBIT NO. E-2

Frequency Measurement made on December 1, 1966, 2:10 am

Equipment: Motorola T1020A Frequency Meter (Gertsch) Serial #860 Factory Calibrated March 18, 1966

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Service Service Method: The Tl020A Frequency Meter was allowed a 30 minute warm up period. Internal oscillator was calibrated in the normal manner.

A zero beat was obtained on the T1020A against the Visual Carrier and computed to be 181.24015 mc. The station frequency monitor indicated a minus (-) 100 cps.

Internal calibration precedure was repeated for the Aural Frequency. With no modulation a beat was obtained against the Aural Carrier on the T1020A and the frequency was computed to be 185.74000 mc. The station frequency monitor indicated a minus (-) 150 cps.

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