Bet. ASB 12/24/52 Broadcast April icat ich saus Section V-C TELEVISION BROADCAST Name of applicant Las Vegas Broadcasting Company ENGINEERING DATA 1. Purpose of authorization applied for: (Indicate by check mark) (If application is for a new station or for any of the changes numbered B through E, complete all paragraphs of this form; if change F is of a character which will change coverage or increase the overall height of the antenna structure more than 20 feet, answer all paragraphs, otherwise complete only paragraphs 2 and 3 and the appropriate other paragraphs; for changes G through I, complete only paragraph 2 and the appropriate other paragraphs; for change J, complete only paragraphs 2 and 16) A. Construct a new station F. Change antenna system B. Change effective radiated power or EDEM G. Change transmitter antenna height above average terrain Install auxiliary or alternate C. Change transmitter location main transmitter Change frequency JUL 14 1952 I. Other changes (specify) E. Approval of site and antenna J. Change studio location Facilities requested Transmitters Frequency Channel number (a) Visual Type No. Rated power 180 186 Mc. In dbk: 6.99 General Electric TT-6-E In low: 5.0 Effective Radiated Power Antenna height above average (b) Aural (visual) terrain in feet. (Must agree Make Type No. Rated power In dbk: 13.9 with height given in Para. 12 of this Section) General Electric In dbk: 3.98 In low: In low: 2.5 (a) Antenna structure If the above transmitters are composite or of types for which data Is the proposed construction in have not been filed with the F.C.C., attach as Exhibit No. Yes [the immediate vicinity or does it a complete showing of transmitter details in accordance with the serve to modify the construction of any standard broadcast station, FM broadcast station, television broadcast station, Commission's Rules. The showing should include schematic diagram makes and types of tubes, operating constants of the last radio stages, full details of frequency control, vestigial sideband filter (if used), multiplex networks and isolation networks. If or other class of radio station? If "Yes", attach as Exhibit complete engineering data thereon. Will proposed structure be constructed Yes No Ton the top of an existing structure?

If "Yes", describe and give height above ground of existing structure. changes are to be made in a licensed transmitter, include a schematic diagram and give full details of the changes. On File (c) Describe in Exhibit No. I means which will be used for determining and maintaining power output of the transmitters to the values specified in this application. Overall height in feet above Overall height in feet Modulation monitors (Do not include the above mean sea level. (Do height of any obstruction light-(a) Visual monitor or monitoring equipment not include the height of ing which may be required.) any obstruction lighting Type No. TV-21-B General Electric which may be required.) 100 (b) Aural monitor 3030 Height of antenna radiation center in feet above mean sea level. Type No. General Radio CR-1183-T2 3012 Frequency monitors (b) Antenna data (a) Visual monitor Visual Туре №. 🔐 Make Accuracy General Radio Type No. 1183-72 .001% (b) Aural monitor General Electric 2**Y-28-T** Type No. CR Accuracy Number of sections General Radio 1183-72 Power gain in db .001% If the above monitors or monitoring equipment have not been approved by the F.C.C., include as Exhibit No. Approx. 7.0 Aural (if separate) technical description of each. Same as above Transmission line proposed to supply power to the antenna Make Type No. from the transmitter (a) Visual

ENGINEERS COPY

Power gain in db

No 🛖

Number of sections

Is directional antenna proposed?

If "Yes", attach as Exhibit No. complete engineering data thereon.

Make

Amdrew

1 5/8

Size (nominal inside trans-

verse dimensions) in inches

Type No.

551-1

Length in feet

100

Description

51.5 ohm

concentric

0.08

Power loss in db

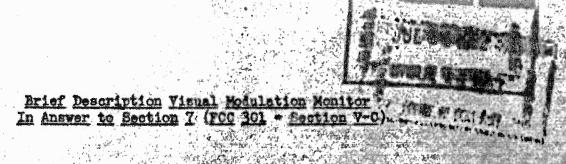
for this length

8. Transmissio	21-10		TELEVISION BROW	DOAST ENGINEERING	DATA	
(b) Aural (if	n line (Conti	Inued) Same	as Pix	The second second		Section V-C, Page
Melos		Туре №.	Description	mission of progr	itos, cameras, microphone cont proposed for trans- ams be designed for con- Commission's Rules?	
Size (nomina) transverse dime inches	inside msion) in	Length in feet	Power loss in db fo this length	ll. (a) Attach as obtainable, such	Exhibit No. III a map	(a) (topographic where
9. Proposed ope	ration			the area within	15 miles of the proposed	rey quadrangles) for
(a) Visual					TOTTOWING CHES	1:
Trensmitter power (after vestigial band filter, if	letda l	ultiplexer loss in db:	Input to trans- mission line in dbk:	radio stat	renamitter location—acc or location and call lett lions (except amateur) an	ers of all known
In dbk: 6.99 In low: 5.0 Transmission		0.05	6.94	within 2 m 3. Proposed 1	radio stations (except amateur) and the location known commercial and government receiving station within 2 miles of the proposed transmitter location. 3. Proposed location of main studio;	
line power loss in db:	ntenna input ower in dbk:	Antenna power gain in db: Approx.	ated power	tranamitter dential, by	of the area within 2 mile r location, suitably desi	ignated as to resi-
(b) Aural	6.86	7.0	In dbk: 13.9 In ker: 24.4	of ten or m location, o	nore miles from the propo	ing to a distance peed transmitter
Transmitter power	Cultrut 16.1	44-7		the princip	oal city or cities to be	served.
In dbk: 3.98	Supple Mil	tiplemer loss in db:	Input to trans- mission line in dbk:	(b) Attach as I	Exhibit No. IV prof:	ile graphs with
In low: 2.5		0.05	3.93	Each graph shall a	Am the stantage in	(a) (5) above.
Transmission An line power loss in db:	tenna input wer in dbk:	Antenna power gain in db:	Effective radi- ated power	proposed transmitte shall be zero azimu	atify each graph by its ber location. Direction of the with angles measured graphical data on each.	pearing from the
0.08	3.85	Approx.	In dbk: 10.85 In kw: 12.2		graphical data on each.	
and in accordance Grade B contours a Radial bearing (degrees true)	Average ele of radial in feet abo sea level	evation Hei (2-10 mi.) ant ove mean cen age	right mile distance d in the Commission nterference.) ight in feet of terms radiation ter above aver- elevation of ial (2-10 mi.)	between two and ten ma's Rules, supply the self-sective radiated power in radial direction	iles from the proposed to following tabulation of of the predicted distance in miles to the Grade A contour 1 db	Predicted distance in miles to the Crade B contour 56 db
45	2230	_	782 feet	13.9 dbk	27.5 mi.	he .
93	5130		892	-13-9-	29.5	48.5 mi.
135	2120		892	13.9	29.5	48
188	1916		187	13.9	29.5	48.5
550-	2292		720	-13.9	32	52
270_	2875		137	-13-9	- 25.5	45
313.8	1916		.096	15+9 -	10	22.5
	17597/8	2199 =	503 913			51.5
tenna height above	average terr	ain800	feet (Must be	identical with Paragr	enh 2)	
	t No. V	map(s) (Sectional	Aeronautical	14. Attach as Exhibit photographs taken in	No. a sufficient	number of merial
Attach as Exhibi- narts where obtains ay) of the area pro-	oposed to be	serven and shown	drawn thereon:			riate altitudes
y) of the area pro (a) Proposed tran	posed to be namitter loca	tion and the rad	drawn thereon:	the vicinity of the p graphs must be marked graphs taken in eight	nature of the surround proposed transmitter site is as to show compass d different directions fr di will be acceptable in	riate altitudes ling terrain in The photo- lirections. Photo-

nois

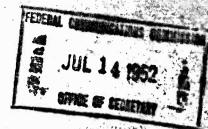
15. Proposed location of trans		BROADCAST ENGINEERI	NG DATA	Sentian tra
·	County	Geoment - 1		Section V-C,
Nevada	Clark	the proposed TV	rdinates (t	o be determined to nearest se-
City or town	Street address	the proposed TV	str	ucture.
0.2.24	Mountain peak	None		
0.3 Mi. HE Alumite	No St. Address	North latitude		West longitude
How were coordinates	TO DO: MULTIESS	35° 58	43	1
determined?	** **			114 54 18
S. Proposed Level !	U. S. Topo map			
6. Proposed location of main s				·
	County	Other studios prop		
Nevada	Clark		CB60	
O.L.	CLERE	None	at pry	Beent
City or town	Street address		- UV p2,	a a a a a a a a a a a a a a a a a a a
as Vegas		1		
	Not yet determi	ned		
State the minimum value of f that will be provided over t				
that will be provided over +	ield strength in dbu, predicte	d in accordance with a		
1	ne entire city in which the ma	in studio is located	ne method pr	rescribed in the Commission's
		2500160.		
	78	}	•	
	·			
(a) Does the proposed transmit Commission's Rules?	tter location complements			
Commission's Rules?		minimum separation requ	irements of	the
(D) II amy co-chome?				
or if other channel and	ions are proposed that are less ations are proposed that are le (Include existing stations, pro a; the distance to seeh from	than the ennies	,	100 X NO
such separations halour	are proposed that are le	88 than the anni (aska		ration requirement plus 20 -1
inches of each antenn	a; the distance to sale	resou stations and assi	emmenter ti	- raw IU miles, list
mistance to measure the di	otant to baum irom t		-Chairbitted: FL	De location
	Stance. I Tr nome	he proposed transmitter	Joseph 1	he location and geographical
	stance.) If none, so state.	he proposed transmitter	location;	ration requirement plus 20 mi parations plus 10 miles, list he location and geographical and the method used in each
	stance.) If none, so state.	he proposed transmitter	location;	parations plus 10 miles, list he location and geographical and the method used in each
	stance.) If none, so state.	he proposed transmitter	location;	he location and geographical and the method used in each
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Broadcast Application		FEDERAL COM	MICATIONS MILE			
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Section	**	Address whe	re applicant can be r Clark's Deser	ing Co.		
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havigation, it is necessary that all	the Regional Airspace	Subcommittee of the	Ale Committee			
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navigation, it is necessary that all Legal Counsel	nd Wilkingo	1071	Purpose of amilia	data must not b	e incorporated	by reference.
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TV	Pacilities request	ed		our massing of, 4	he enterna	THE CONTRACTOR CLIEBLEON
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General Electric TV-21-E visual modulation monitor is designed to permit a visual quality observation of the signal delivered to the antenna by TV "Pix" Fransmitter. The picture information supplied by the instrument is equivalent to that which would be obtained from an ideal television receiver located remotely from the station. The signal is free from interference by the accempanying sural transmitter. Portions of the TV transmitter R-F output are sampled and delivered, to the master monitor to provide the following information:

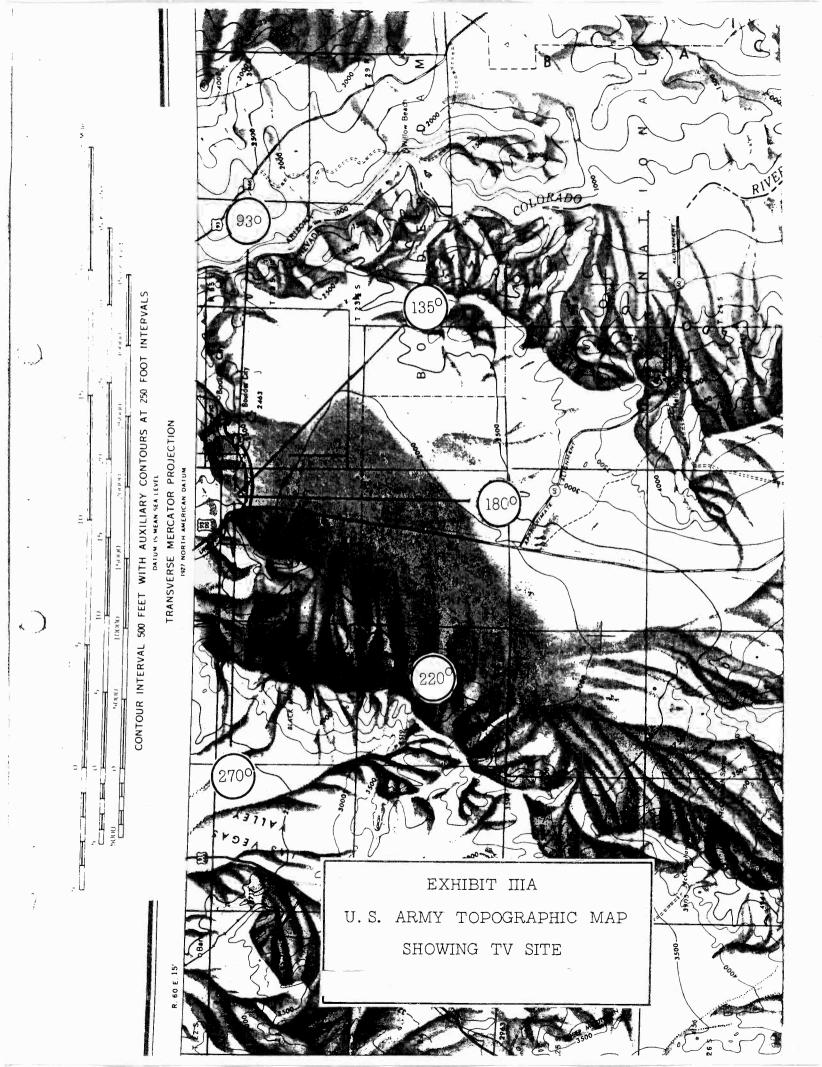
Waveform characteristic such as wave shape, per cent sync, white compression, depth of modulation, resolution and transient response and a composite picture of the radiated TV signal to serve as a basis for checking compliance with FTMA and FCC Standards.

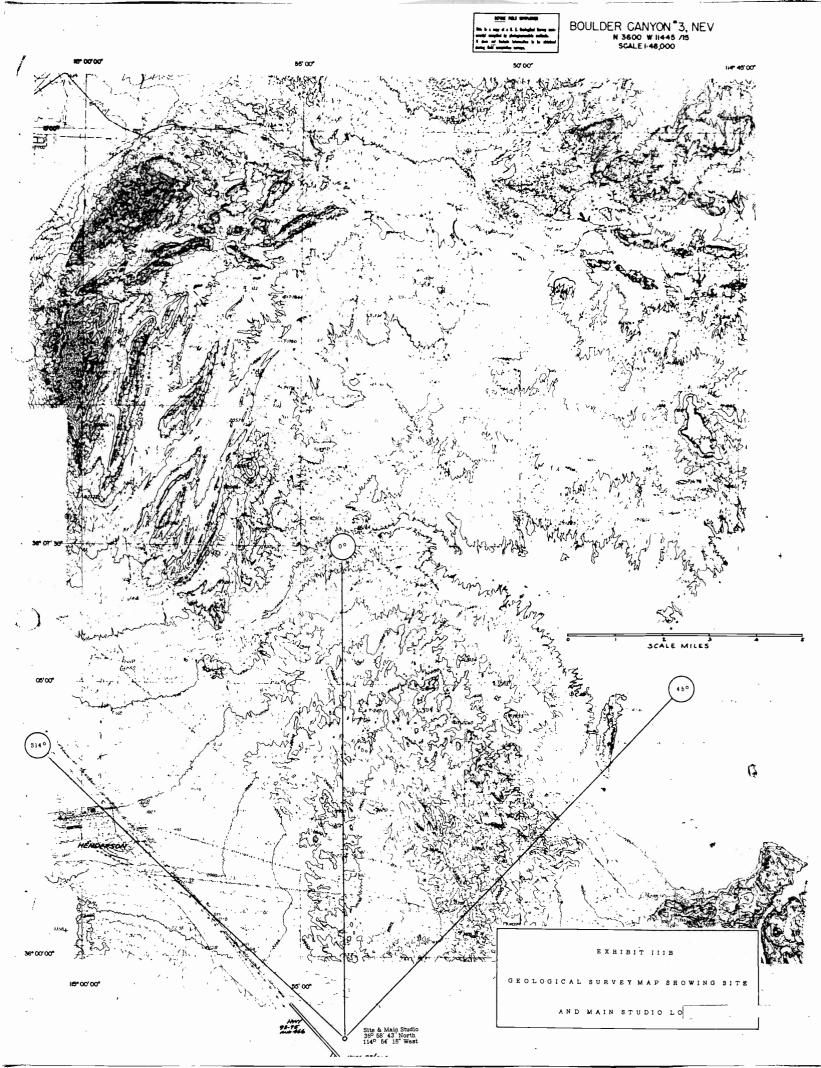


Power Output of Transmitters In Answer to FCO 301 - Section Y-C-4(a)

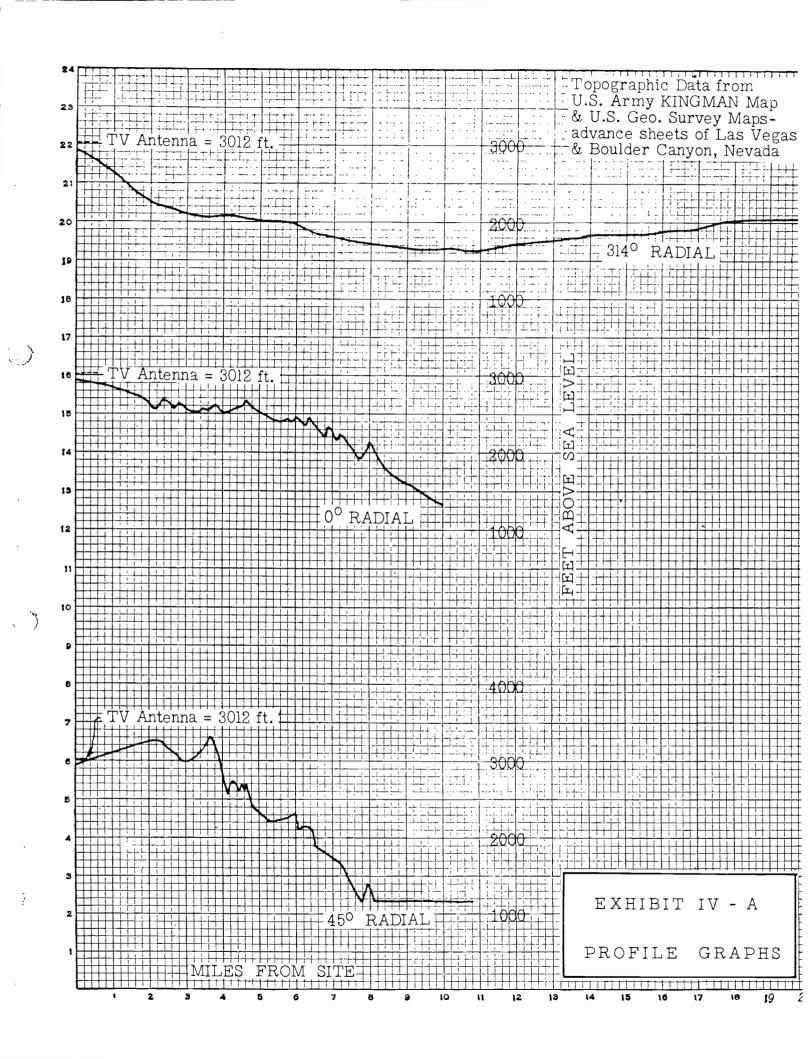
Two measuring units will be used in determining and maintaining power output of the visual transmitter to the value specified in station license.

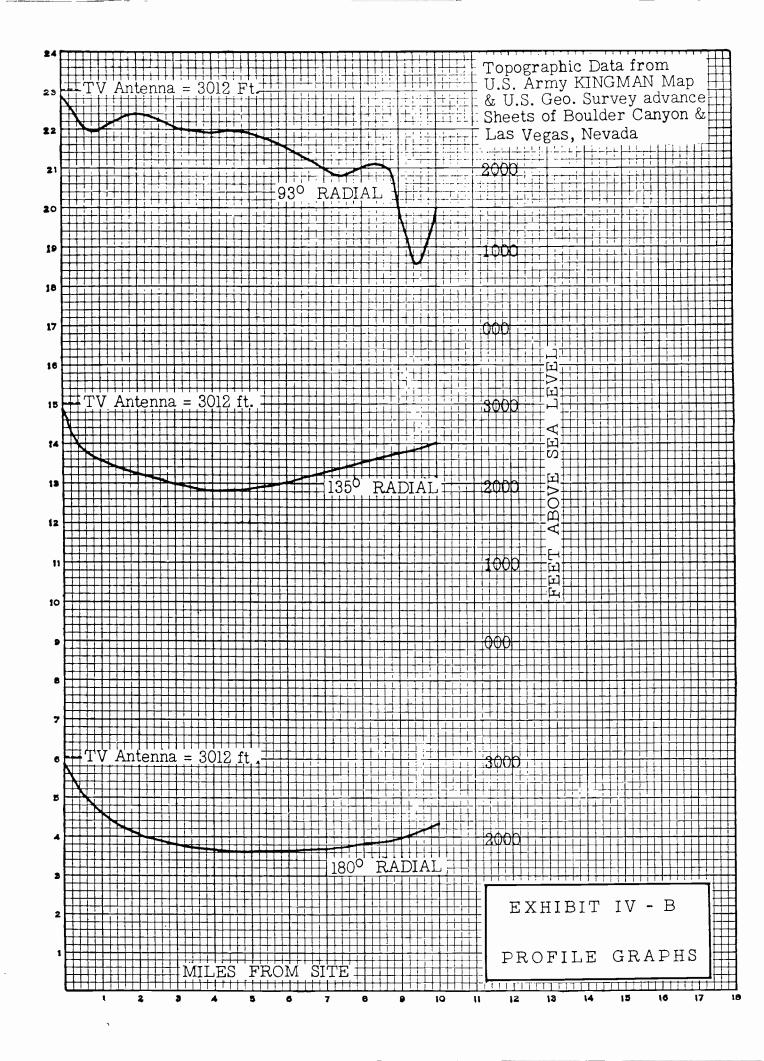
Reflectometers, incorporated in the visual and aural portions of the transmitter will be calibrated in terms of pre-operation calibration obtained with transmitter operating into laboratory type dummy load. Readings thus obtained on the reflectometer will be used in day to day operational power measurement determination.

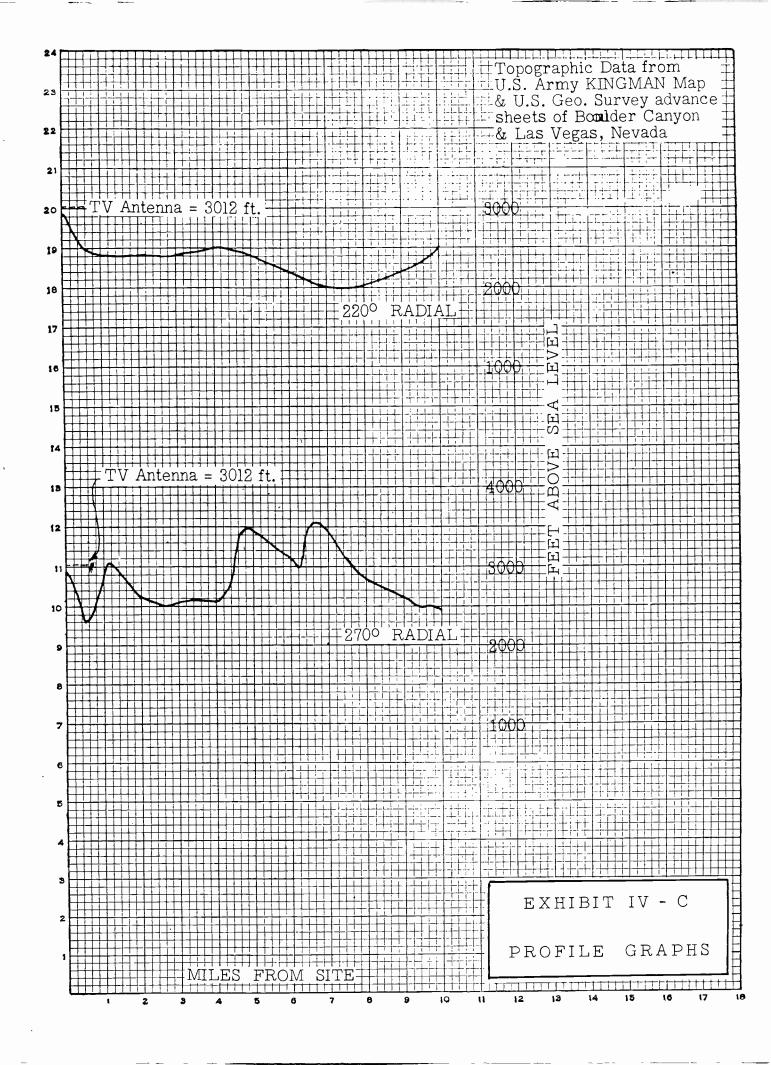




AS VEGAS 4, NE N3600 WII500 /15 SCALE 148,000 4. NEV SHOWING CITY ENDED 314°







File No. 3LCT-366

Name and post office address of applicant (See Instruction D)

Las Vegas Television, Inc.

FCC Form 302 April 1953 Section I Form Approved
Budget Bureau No. 52-R015.13

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 and swear to one copy. File with Federal Communications Commission, Washington 25, D. C.

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 (8) 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 must be executed by applicant, if an individual; by a partner of applicant, if a partnership; by an officer of applicant, if a corporation or association; or by attorney of applicant only under conditions shown in Section 1.803, Rules Relating to Organization and Practice and Procedure, in which event satisfactory evidence of disability of applicant or his absence from the Continental United States and authority of attorney to act must be submitted with application.

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.

\$ Leased

Las Vegas Television, Inc. P. O. Box 711

Las Vegas, Nevada

SEP 1955

Notices and communications with respect to this application are to be addressed to the following named persons at the address indicated

R. G. Jolley * (at above address)

1. Facilities authorized by construction permit

Frequency Channel No. Power in kilowatts

180-186 MC 8 Night 2 DW1sual
14.7 Aural

Hours of operation Call letters

Unlimited KLAS-TV

2. Construction permit covered by this application

File number BPCT-12BBate March 18, 1953

Construction begun Construction completed
March 18, 1953 September 1,1955

Is the station now in satisfactory operating condition and ready for regular operation?

If not, explain

Yes X No

PROGRAM DATA

3. Has applicant any contract, arrangement, or understanding, expressed or implied, with a network organization for the broadcasting of network programs?

Yes 🗶 No

\$266,921.19

Does applicant, in the event this application is Yes X No granted, propose to broadcast network programs?

If network programs are to be broadcast, state as Exhibit No.

A 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 Studio technical Antenna system, including Frequency and including tubes antenna-ground system, modulation monitors equipment, microphones, coupling equipment, transtranscription equipment, etc. \$ 36,144.63 s 91,339.35 96,281.95 \$ 5,000.00 Acquiring Total Other items, Acquiring or constructing state nature

\$38.155.

buildings

*cc: McKenna & Wilkinson, 1735 DeSales Street N.W., Washington 6, D.C.

74

F	FCC Form 302 Section I, Page 2				
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. (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	İ			
	No changes				
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.				
8.	Is a request for authority to conduct program tests a part of this application? Yes Nox				
	The applicant 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 a station license in accordance with this application. (See Section 804 of the Communications Act of 1984)				
	The applicant represents that this application is not filed for the purpose of impeding, obstruction, or delaying determination on any other application with which it may be in conflict.				
	All the statements made in the application and attached exhibits are considered material representations, and all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.				
	The applicant, or the undersigned on the applicant's behalf, states that he has endeavored to supply full and correct information as to all matters which are relevant to this application and that he has done so as to all matters within his own knowledge.				
	Dated this lst day of September 19 55. Las Vegas Television, Inc. (Name of applicant) R. G. Jolley President and General Manage Title	le			
	Subscribed and sworn to before me this 1st day of September (SEAL) Ralph E. Smith Reference Notary Public	Æ			
	(Notary public's seal must be affixed where the law of jurisdiction requires, otherwise state the law does not require seal.)				
	My commission expires January 10, 1959 EXHIBITS furnished as required by this form:				
_		İ			
M	A I - 3 B, C I - 5 K II - C, 5 L II - C, 8 N, O II - C, 9 P II - C, 10 Name of officer or employee (1) by whom or (2) under whose direction exhibit was prepared (show which) R. G. Jolley (2) Pres. & Gen. Mgr. " " " " " " " " " " " " " " " " " " "				

senses

Broadcast Application FEDERAL COMMUNICATIONS COMMISSION Section II-C Tas Vegas Television, LICENSE APPLICATION ENGINEERING DATA TELEVISION BROADCAST 1. Facilities authorized in construction permit Aural transmitter Kall A Stergy Channel No) File horo conservation permit D. C. plate current in last Applied D. C. plate voltage of last radio stage in solts radio stage, in ampere Frequency Carriel Blue 124 Plate input power to last 180 -186 Visual 185.74 Mc radio stage in kilewatts Mc. Aural Effective Radiated Power Effective Radiated Power Transmitter power output RF transmission line meter (aural) 14.35 11.66 In dbk: terrain 185 In dbk: In dbk: 27.2 14.7 140 In kw: 6. Antenna and transmission line 2. Station location (principal community) Antenna make and Type No. Number of sections State Nevada City or town Vegas 8. Transmitter location Antenna supporting structure State Nevada 209 Ideco Triangular ^CCTyark Self-Supporting Tower City or town 1 mile Striewedgess of other trients it all ideals r south of Las Vegas. Clark's Desert Inn. Overall heigh? tenna system above ground 4. Main studio location State Nevada County lark Geographical coordinates of antenna (to nearest second) West longitude North latitude 08 06 Hiwey 91 City Las Vegas Wilbur Clark's Desert Inn. If directional antenna is used, give full details including horizontal and vertical plane radiation patterns, as Exhibit No. 5. Transmitters Installed Is electrical or mechanical beam tilting employed? Visual Rated power 99 If so, describe fully in Exhibit No. Make Type No. General Electric TT6E In dbk: 5.0 including horizontal and pertinent vertical radiation patterns. Has antenna been altered to provide nuti fill-in? If so, describe fully in Exhibit No. Aural Rated power 4.31 Transmis Sommunications General Electric TT6E Products Co. Inc. To 125060 to axive 1ide 2.7 Size (nominal inside transverse Length in feet Power loss in db dimensions) is inches for this length Operating constants 239 Visual transmitter (while transmitting black) D. C. plate current Applied D. C. plate Multiplexer 2850 in last radio stage, voltage of last radio Owneral Electric TyPeY-16C in amperes stage, in volts Transmitter power output (after Multiplexer loss Input to transvestigial sideband filter, if used, If emergency antenna or transmission the measures are provided, in db, if separate: mission line in and after multipleter, in mbined) .004 dbk: describe in Exhibit No. In dbk: 5.0 6.986 7. Modulation monitors In kw: (a) Visual monttor of monitoring equipment

Demodulator Type No. (or Transmission Effective radiated Antenna input power in dbk: Antenna power gain in db: power 14.3 Type No. (or describe in Exhibit line power loss in de 2 6.57 7.78 In dbk: 27.2 (b) Aural monitor Attach as Exhibit No. K Type No. complete information concerning the General Radio GR1183-T2 method of power output determination. If power is measured at output of multiplexer, so state. 8. Frequency monitors Reading of power output meter (transmission line voltage, current (a) Visual monitor orlyd; itdicet the hand be estimat authorized powers 1 Jameral Radio Normal limits of deviation of carrier reflectometer equals 5.0 KW cps. low peak R. F. power output. GBJN.71-AT2 high cps. low

10 (0 11		ST ENGINEERING DATA	Section II-C, Page 2
8. (Continued)		10. Performance data - Aural	ransmitter
(b) Aural monitor			
Make Peneral Radio	Normal limits of deviation of carrier frequency shown by monitor	Attach as Exhibit No. P graphs together with descriptio instruments with regard to the	data, diagrams, and appropriate n of measurement procedures and ollowing: (All measurements shall
GR1183-T2	100 cps. to 400 cps.	and shall include all circuits b	usted for normal program operation
excess of the bermissible to	ndicates any carrier deviation in derance, describe in Exhibit No. prrective measures taken.	emphasis circuits and any equa phones, and without compression installed.)	nt, including telephone lines, pre- lizers employed except for micro- on if a compression amplifier is
If the carrier frequencies hadescribe in Exhibit No.	we been measured by other means, giving the date, method used ice employed, the results obtained gh or low) at the time.	a. Audio frequency response f proximately 25, 50 and 100 per shall be made on at least the f	cent modulation. Measurements ollowing audio frequencies: 50,
a. Attach as Exhibit No. aragraph subst 1. Overall attenuation vi transmitter;	ituted per FCC LTH	emphasis; nowever, standard 7 employed in the measuring equicuracy of the deemphasis circumeasured response is within the	of microsecond deemphasis may be pment or system provided the ac- it is sufficient to insure that the prescribed limits.
upper side-band for a or greater;	of 1.25 mc. or greater, and of the modulating frequency of 4.75 mc.	modulation for the fundamental and 5000 cycles. Audio freque modulation for fundamental freq cycles. Measurements shall no	istortion for 25, 50 and 100 percent frequencies of 50, 100, 400, 1000 ncy harmonics for 100 percent uencies of 10,000 and 15,000 rmally include harmonics to
waveform of the transmitted s	N data demonstrating that the ignal conforms to that specified by the	30,000 cycles. The distortion	measurements shall be made em- asis in the measuring equipment
the applicant.	these measurements may be specified by r of this data is left to the discretion of	10,000 cycles in decibels below	y modulation) in the band of 50 to
c. Attach as Exhibit No. taken from a receiver or mo output.	O a photograph of a test pattern nitor connected to the transmitter	measuring equipment or system.	
	·	amplitude modulation. The noise	e modulation) in the band of 50 to the level representing 100 percent te measurements shall be made phasis in the measuring equipment

Same

I certify that I am the Technical Director, Chief Engineer or Consulting Engineer for the applicant of the radio station for which this application is submitted and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief. (This signature may be omitted provided the engineer's original signed report of the data from which the information contained herein has been obtained is attached hereto.)

1 September 1955

KLAS-TV

CHANNEL 6 (-) LAS VEGAS TELEVISION, INC. P.O. BOX 711 LAS VEGAS, NEVADA

- TABLE OF CONTENTS -

SEP 1962 F
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SECTION	DESCRIPTION
Form 302	Executed copy of FCC Form 302
Ex. A	Copy of affiliation agreements with the CBS Television Network
Ex. B	Finincial statement for applicant, Las Vegas Television, Incorporated
Ex. C	Statement of financing of construction costs which exceeded original estimate
Ex. K	Method of determining output power of transmitter
Ex. L	Check of transmitter carrier frequencies and results.
Ex. N	Performance data for visual transmitter ammended to conform to FCC Letter 11612, dated October 1, 1954
Ex. N	Photographs and data concerning the waveform of the transmitted signal
Ex. 0	Photographs of transmitted test pattern taken from receiver and station monitor
Ex. P	Performance data for aural transmitter and system ammended to conform to FCC Letter 11612, dated October 1, 1954
Misc.	Additional information concerning color transmission modifications of transmitter

Exhibit A KLAS-TV Las Vegas, Nevada August 24, 1955

CBS TELEVISION A division of Columbia Broadcasting System, Inc.

TELEVISION AFFILIATION AGREEMENT EXTENDED MARKET GROUP

AGREEMENT made this 21st day of Jamuary, 1955 by and OFFICE OF STREET, between CBS TELEVISION, a division of Columbia Broadcasting System, Inc., 485 Madison Avenue, New York 22, New York (herein called "CBS">h79771/1918 TELEVISION ") and LAS VEGAS TELEVISION, INC., P. O. BOX 711, Las

(herein called "Station") licensed to operate television station
KIAS-TV at Las Vegas, Nevada full time on

a frequency of 180 - 186 mc. on Channel number 8.

CBS Television is engaged in operating a television broadcasting network and in furnishing programs to affiliated television stations over program transmission facilities leased by CBS Television, by "off-the-tube" TV recordings, or otherwise. Some of such programs, herein called "sponsored programs", are sold by CBS Television for sponsorship by its client-advertisers. All non-sponsored programs are herein called "sustaining programs". "Network sustaining programs", "network sponsored programs" and "network programs" as used herein mean network television programs. Station and CBS Television recognize that the regular audience of Station will be increased, to their mutual benefit, if CBS Television provides Station with television programs not otherwise locally available.

Accordingly, it is mutually agreed as follows:

- l. CBS Television will offer to Station for broadcasting by Station network sustaining programs as hereinafter provided, and network spensored programs for which clients may request broadcasting by Station and which are consistent with CBS Television's sales and program policies. Network sustaining programs made available by CBS Television are for sustaining use only and may not be sold for local spensorship or used for any other purpose without the written consent of CBS Television in each instance.
- 2. This Agreement does not provide for, and CBS Televidion has no understanding, express or implied, with Station for option time within the purview of subparagraph (d) of Section 3.658 of the Federal Communications Commission rules and regulations. Subject to Station's right to reject network programs as provided in subparagraph (e) of Section 3.658 and subject to all other applicable sections of the rules and regulations of the Federal Communications Commission, Station agrees to accept and broadcast network sponsored programs offered and furnished to Station by CBS Television in time periods to be mutually agreed upon between the parties. If any network spensored program is accepted by Station for broadcast in a specified time period. Station agrees that such program will continue to be broadcast by Station at the same hour of the day on the same day of the week for the duration of the term of this Agreement, or for the duration of GBS Television's agreement with the sponsor and all renewals thereof, whichever may be the shorter, except as otherwise herein provided.

- 3. Nothing herein shall be construed (i) with respect to network programs offered pursuant hereto, to prevent or hinder Station from rejecting or refusing network programs which Station reasonably believes to be unsatisfactory or unsuitable, or (ii) with respect to network programs so offered or already contracted for. (A) to prevent Station from rejecting or refusing any program which. in its opinion, is contrary to the public interest, or (B) from substituting a program of outstanding local or national importance. CBS Television may, also, substitute for one or more of the programs offered hereunder other network programs, sponsored or sustaining. of cutstanding local or national importance, without any obligation to make any payment on account thereof (other than for the substitute program, if the substitute program is sponsored). In the event of any such rejection, refusal or substitution by either party, it will notify the other by private wire or telegram thereof as soon as practicable.
- h. Station will not make either sural or visual commercial spot announcements in the "break" occurring in the course of a single network program or between contiguous network sponsored programs for the same sponsor where the usual station break does not occur.
- 5. CBS Television will pay Station for broadcasting network sponsored programs furnished by CBS Television as specified in Schedule A, attached hereto and hereby made a part hereof. Payment to Station will be made by CBS Television for network sponsored programs broadcast over Station within twenty (20) days following the

termination of CBS Television's four (4) or five (5) week fiscal period, as the case may be, during which such network sponsored programs were broadcast.

- 6. The network programs to be offered to Station hereunder will be made available in the form of TV recordings, or, if
 Station so elects and transmission arrangements satisfactory to CBS
 Television can be effected, such programs will be made available
 over coaxial cable or microwave relay transmission lines. Anything
 contained herein to the contrary notwithstanding, CBS Television
 shall not be obligated to offer any programs to Station in the form
 of TV recordings unless CBS Television has the right so to do and
 shall have made TV recordings for broadcast on stations other than
 stations affiliated with CBS Television on an Extended Market basis.
- 7. Station agrees to observe any limitations CBS Television may place on the use of TV recordings and to return to CBS Television, transportation prepaid by Station, immediately following a single broadcast thereof, at such place as CBS Television may direct, and in the same condition as received by Station, ordinary wear and tear excepted, each print or copy of the TV recording of any network program, together with the reels and containers furnished therewith. Each such TV recording shall be used by Station only for the purpose herein contemplated.
- 8. Station shall pay GBS Television, as a service fee, the sum of Five Dollars (\$5.00) for each program (of whatever length) furnished to Station hereunder by means of TV recording. CBS Television shall have the right from time to time to increase and/or

decrease the service fee by giving Station at least four (h) weeks' notice to such effect, provided, that in the event of any increase in the service fee, Station may terminate this Agreement, effective on or before the effective date of such increase, by giving CBS Television at least two (2) weeks' notice to such effect. Payment of service fees for programs furnished to Station for broadcast during each of the fiscal periods referred to in paragraph 5 hereof shall be made within thirty (30) days following termination of such fiscal period. CBS Television may deduct the aggregate amount of such service fees from sums due Station pursuant to paragraph 5 hereof.

- 9. Station shall pay all interconnection and transmission charges in connection with the transmission to Station of network programs furnished to Station by coaxiel cable and/or microwave relay transmission lines.
- 10. Neither party hereto shall be liable to the other for claims by third parties, or for failure to operate facilities or supply programs for broadcasting if such failure is due to failure of equipment or action or claims by network clients, labor dispute or any similar or different cause or reason beyond the party's control.
- 11. The obligations of the parties hereunder are subject to all applicable laws, rules and regulations, present and future, especially including rules and regulations of the Federal Communications Commission.
- 12. If Station applies to the Federal Communications Communication for consent to a transfer of its license, or proposes to

transfer all or any of its assets without which it would be unable to perform its obligations hereunder, it will procure the agreement of the proposed transferee that, upon the consummation of the transfer, the transferee will assume and perform Station's obligations hereunder, unless CBS Television shall waive this condition in writing.

given in writing, either by personal delivery or by mail or by telegram or by private wire (except as otherwise expressly herein provided) at the respective addresses of the parties hereto set forth above, or at such other addresses as may be designated in writing by registered mail by either party. Notice given by mail shall be deemed given on the date of mailing thereof. Notice given by telegram shall be deemed given on delivery of such telegram to a telegraph office, charges prepaid or to be billed. Notice given by private wire shall be deemed given on the sending thereof.

Il. This Agreement shall be construed in accordance with the laws of the State of New York applicable to contracts fully to be performed therein, and this Agreement cannot be changed or terminated orally.

15. As of the beginning of the term hereof, this Agreement takes the place of, and is substituted for, any and all television affiliation agreements heretofore existing between the parties hereto concerning the market area to which this Agreement relates, subject only to the fulfillment of any accrued obligations thereunder.

16. The term of this Agreement shall begin on January 21, 1955 and shall continue for a period of two (2) years from such date; provided, however, that unless either party shall send written notice to the other at least six (6) months prior to the expiration of the then current two-year period that the party sending such notice does not wish to have the term extended beyond such two-year period, the term of this Agreement shall be automatically extended upon the expiration of the original term and each subsequent extension thereof for an additional period of two years; and provided, further, that this Agreement may be terminated effective at any time by CBS Television by sending written notice to Station at least six (6) months prior to the effective date of termination specified therein.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written.

GBS TELEVISION
A division of Columbia
Broadcasting System, Inc.

By_	(s) H. T. Aherly	
ias	vegas television,	INC.
Rv	(x) R. G. Jolley	

SCHEDULE A

(Attached to and forming part of the agreement between CBS Television and LAS VEGAS TELEVISION, INC., dated January 21, 1955.

This Schedule A contains provisions supplementary to said agreement and in case of any conflict therewith, the provisions of this Schedule A shall govern.)

- I. CBS Television will pay Station for broadcasting network sponsored programs furnished by CBS Television during each week of the term hereof, thirty per cent (30%) of the gross time charges for such week, less the ASCAP and BMI deduction.
- II. The ASCAP and BMI deduction for any week shall be the amount obtained by multiplying thirty per cent (30%) of the gross time charges for such week by the ASCAP and BMI percentage.
- III. As used herein, the term "gross time charges" for any week shall mean the aggregate of the gross card rates charged and received by CBS Television for broadcasting time over Station for all network sponsored programs broadcast by Station during such week at the request of CBS Television.
 - IV. As used herein, the term "ASCAP and RMI percentage" shall mean the aggregate of the percentages of CBS Television's "net receipts from sponsors after deductions" and of CBS Television's "net receipts from advertisers after deductions" paid or payable, respectively to American Society of Composers, Authors and Publishers (ASCAP) and Broadcast Music, Inc. (EMI) under CBS Television's network blanket license agreements with ASCAP

- and BMI. (Currently such percentages are 3.025 and 1.2, respectively.)
- V. In the event that CBS Television shall have license agreements with ASCAP or EMI which shall provide for the payment of license fees computed on a basis other than a percentage of CBS Television's "net receipts from sponsors after deductions" or "net receipts from advertisers after deductions", as the case may be, CBS Television shall deduct from each payment to Station, in lieu of the ASCAP and EMI deduction, the proportionate share of music license fees paid or payable by CBS Television which is properly allocable to such payment.

We refer to our affiliation agreement with you dated January 21, 1955 relating to Station KLAS-TV.

It is hereby agreed that, effective June 1, 1955, said agreement is amended and supplemented as follows:

- 1. From time to time we will, subject to the approval of the network sponsor thereof, offer to you television programs which have been included in our Extended Program Service plan and, subject to the conditions hereinafter set forth, you shall have the right to broadcast such programs by giving us written notice of your acceptance thereof not later than ten days after your receipt of our offer thereof, it being understood that you shall be under no obligation to accept or broadcast any such programs.
- 2. All programs offered pursuant to the terms hereof are for sustaining use only and you agree that you will not permit any aural or visual announcement to be made, either in the course of such programs or otherwise which may directly or indirectly imply the sponsorship thereof by any sponsor, provided, however, that you may, of course, insert public service messages and/or program promotion announcements in such programs in those places wherein the commercial message has been deleted.
- 3. Programs accepted by you hereunder may be delivered by us over coaxial cable or radio relay transmission lines or in the form of TV recordings, as we may from time to time elect.
- h. You shall have the right to broadcast the programs accepted by you hereunder only on the days and at the times specified in our offer thereof, and you agree to make no other use thereof.
- 5. You agree to return to us, or forward as per our instructions, shipping expenses prepaid, immediately following a single broadcast thereof, to such place as we may direct, and in the same condition as received by you, ordinary wear and tear excepted, each print or copy of TV recordings furnished hereunder, together with the reels and containers furnished therewith.
- 6. You agree to pay us, with respect to each program accepted hereunder which is
 - (a) delivered over coxial cable or radio relay transmission lines, such costs, if any, as we may be required to pay to interconnect your station for the broadcast thereof at the time specified by us,
 - (b) delivered in the form of a TV recording, the sum of Ten Bollars (\$10) per recording.

- 7. With respect to offers of TV recordings accepted by you hereunder,
 - (a) you agree that your acceptance shall be for a minimum of four consecutive weeks, payment to be made for each recording delivered whether broadcast or not as cutlined in Paragraph 6(b) above, and
 - (b) we agree that such acceptance may be cancelled effective after such fourth consecutive week on not less than lid days! prior notice given by letter, telegram, or telephone.
- 8. We may recapture, on not less than ten days' prior notice to you, any program accepted by you hereunder and may terminate
 - (a) said affiliation agreement forthwith upon any breach of paragraph 2 or 4 hereof by you, or
 - (b) this amendment on not less than ten days' prior written notice.
- 9. We shall not be liable to you for failure to deliver any program accepted by you hereunder if such failure is due to
 - (a) causes beyond our control, or
 - (b) the substitution for such program of a program of outstanding local or national importance, if such substituted program is not available under our Extended Program Service plan.

Unless sooner terminated, this amendment shall automatically terminate effective as of the effective date of any expiration or termination of said affiliation agreement.

As herein smended and supplemented, said affiliation agreement is in all respects ratified and affirmed.

CBS TELEVISION, A division of Columbia Broadcasting System, Inc.

By (s) Edward P. Shurick

Accepted and Agreed

*:)

LAS VEGAS TELEVISION, INC.

By (s) R. G. Jolley

Date: June 2, 1955

TELEVISION AFFILIATION AGREEMENT

CBS TELEVISION

A Division of Columbia Broadcasting System, Inc.

AGREEMENT

between

COLUMBIA BROADCASTING SYSTEM, INC. *

485 Madison Avenue, New York, New York and

LAS VEGAS TELEVISION, INC. **

P. O. BOX 711, LAS VEGAS, NEVADA

licensed to operate

Television station KLAS-TV at Las Vegas, Nevada
full time on a frequency of 180-186 m.c. Channel No. 8

COLUMBIA is engaged in operating a television broadcasting network and in furnishing programs to television stations on the network over program transmission facilities leased by COLUMBIA, by "off-the-tube" TV recordings, or otherwise.

Some of such programs, herein called "sponsored programs," are sold by COLUMBIA for sponsorship by its client-advertisers. All non-sponsored programs are herein called "sustaining programs." "Network sustaining programs" and "network programs" as used herein mean network television programs. The Station and COLUMBIA recognize that the regular audience of the Station will be increased, to their

^{*}Herein called COLUMBIA. **Herein called the Station.

mutual benefit, if COLUMBIA provides the Station with television programs not otherwise locally available.

Accordingly, it is mutually agreed as follows:

- casting by the Station network sustaining programs as hereinafter provided, without charge, and COLUMBIA network
 sponsored programs for which clients may request broadcasting
 by the Station and which are consistent with COLUMBIA'S sales
 and program policies. Network sustaining programs made
 available by COLUMBIA are for sustaining use only and may not
 be sold for local sponsorship or used for any other purpose
 without the consent of COLUMBIA in specific instances.
- work sponsored programs affered and furnished to it by COLUMBIA during network option time; provided, however, that
 the Station shall be under no obligation to accept or broadcast any COLUMBIA network program (a) on less than 56 days!
 notice, or (b) for broadcasting during a period in which the
 Station is obligated by contract to broadcast a program of
 another network. The Station may, of course, at its election,
 accept and broadcast network sponsored programs which COLUMBIA may offer within hours other than network option time.
 The Station will not make either aural or visual commercial
 spot announcements in the "break" occurring in the course

of a single network program or between contiguous programs for the same sponsor where the usual station break does not occur.

Nothing herein shall be construed (a) with respect to network programs offered pursuant hereto, to prevent or hinder the Station from rejecting or refusing network programs which the station reasonably believes to be unsatisfactory or unsuitable, or (b) with respect to network programs so offered or already contracted for, to prevent the Station from rejecting or refusing any program which, in its opinion, is contrary to the public interest, or from substituting a program of outstanding local or national importance. COLUMBIA may, also, substitute for one or more of the programs offered hereunder other programs, sponsored or sustaining, of outstanding local or national importance, without any obligation to make any payment on account thereof (other than for the substitute program, if the substitute program is sponsored). In the event of any such rejection, refusal or substitution by either party, it will notify the other by wire thereof as soon as practicable.

Hours within network option time (expressed in local time current on the date of broadcast) are as follows:

Daily, including Sunday, 10:00 AM to 1:00 PM,

2:00 PM to 5:00 PM, and 7:30 PM to 10:30 PM

hois,

3. COLUMBIA will pay the Station for broadcasting

network sponsored programs furnished by COLUMBIA at the rates specified in Schedule A hereto and hereby in all respects made a part hereof.

Payment to the Station will be made by COLUMBIA for network sponsored programs broadcast over the Station within twenty (20) days following the termination of COLUMBIA'S four or five week fiscal period, as the case may be, during which such sponsored programs were broadcast.

h. COLUMBIA will offer to the Station for broadcasting such network sustaining programs as COLUMBIA is able to deliver or cause to be delivered to the Station over program transmission lines or radio relay links under arrangements satisfactory to COLUMBIA. COLUMBIA shall not be obligated to offer, or make available to the Station hereunder. such network sustaining programs as it may have available in the form of TV recordings, unless COLUMBIA has the right so to do and the Station shall agree to pay COLUMBIA'S charges therefor. When, in the opinion of COLUMBIA, the transmission of network sponsored programs over program transmission lines of radio relay links is for any reason impractical or undesirable, COLUMBIA reserves the right to deliver such program to the Station in the form of TV recordings, or otherwise. The Station agrees to observe any limitations COLUMBIA may place on the use of TV recordings and to return to COLUM-BIA, transportation prepaid by Station, immediately following a single broadcast thereof, at such place as COLUMBIA may direct, and in the same condition as received by Station, ordinary wear and tear excepted, each print or copy of the TV recording of each such program, together with the reels and containers furnished therewith. Each such TV recording shall be used by the Station only for the purpose herein contemplated.

- 5. Neither party shall be liable to the other for claims by third parties or for failure to operate facilities or supply programs for broadcasting if such failure is due to failure of equipment or action or claims by network clients, labor dispute or any cause or reason beyond the party's control.
- 6. The obligations under this agreement are subject to all applicable laws, rules and regulations, present and future, especially including rules and regulations of the Federal Communications Commission.

(: ::<u>)</u>

7. If the Station applies to the Federal Communications Commission for consent to a transfer of its license or proposes to transfer all or any of its assets without which it would be unable to perform this agreement, it will procure the agreement of the proposed transferee that, upon the consummation of the transfer, the transferee will assume and perform this agreement, unless COLUMBIA shall waive this condition in writing.

- 8. This agreement has been made in the State of New York and shall be governed by the laws of that State applicable to contracts fully to be performed therein, and this agreement is not subject to oral modification.
- 9. As of the beginning of the term hereof, this agreement takes the place of and is substituted for any and all television affiliation agreements heretofore existing between the parties hereto, subject only to the fulfillment of any accrued obligations thereunder.

July 20, 1953 and shall continue for a period of two (2) years from such date; provided, however, that unless either party shall send written notice to the other at least six months prior to the expiration of the then current two-year period that the party sending such notice does not wish to have the term extended beyond such two-year period, the term of this agreement shall be automatically extended upon the expiration of the original term and each subsequent extension thereof for an additional period of two years; and provided, further that this agreement may be terminated at any time by either party by sending written notice to the other at least twelve months prior to the effective date of termination thereof.

IN WITNESS WHEREOF, this agreement has been signed by the parties and dated the lst day of July, 1953.

COLUMBIA PROADCASTING SYSTEM, INC.

By (s) H. T. Aherly

CBS TELEVISION

Las Vegas Television, Inc.

By (s) Frederick G. Stoye

SCHEDULE A

(Attached to and forming part of Agreement between Columbia Broadcasting System, Inc. and Las Vegas Television, Inc.,

dated July 1, 1953.

This Schedule A contains provisions supplementary to said Agreement and in case of any conflict the provisions of this Schedule A shall govern.)

- casting of network sponsored programs furnished by Co-LUMBIA during each week of the term hereof, thirty per cent (30%) of the gross time charges for such week, less the "converted hour" deduction and the ASGAP and BMI deduction.
 - (b) The gross time charges for any week shall mean the aggregate of the gross card rates charged and received by CO-LUMBIA for broadcasting time over the Station for all network sponsored programs broadcast by the Station during that week at the request of COLUMBIA.
 - (c) The "converted hour" deduction for each week shall be one hundred fifty per cent (150%) of the amount obtained by dividing the gross time charges for such week by the number of "converted hours" in that week.
 - (d) A "converted hour" means an aggregate period of one hour during which there shall be broadcast over the Station one or more network spensored programs for which GOLUMBIA shall charge its Glass A time card rate for the Station. An aggregate period of one hour during which there shall be broadcast over the Station one or more network spensored programs for which GOLUMBIA shall charge a percentage of its Glass A time card rate, such as its Glass B time card rate, shall be the equivalent of the same percentage of a "converted hour." Fractions of an hour shall be treated for all purposes, as their fractional proportions of a full hour within the same time classification.
 - (e) The ASCAP and BMI deduction for any week shall be the amount obtained by (i) deducting the "converted hour" de-duction for that week from thirty per cent (30%) of the gress time charges for that week, and (ii) multiplying the remainder by the ASCAP and BMI percentage.

- (f) The ASGAP and BMI percentage shall be the aggregate of the percentages of GOLUMBIA'S "net receipts from sponsors after deductions" and of COLUMBIA'S "net receipts from advertisers after deduction" paid or payable, respectively, to American Society of Composers, Authors and Publishers (ASGAP) and Broadcast Music, Inc. (BMI) under COLUMBIA'S network blanket license agreements with ASGAP and RMI. (Currently such percentages are 3.025 and 1.2, respectively, so that the ASGAP and RMI percentage is 4.225%.)
- (g) In the event that COLUMBIA shall have license agreements with ASCAP and/or EMI which shall provide for the payment of license fees computed on a basis other than a percentage of COLUMBIA'S "net receipts from sponsors after deductions" or "net receipts from advertisers after deduction", as the case may be, COLUMBIA shall deduct from each payment to the Station, in lieu of the ASCAP and EMI deduction, the proportionate share of music license fees paid or payable by COLUMBIA which is properly allocable to such payment.
- II. The obligations of COLUMBIA hereunder are contingent upon its ability to make arrangements staisfactory to it for facilities for transmitting COLUMBIA network programs to the control board of the Station.
- III. Anything contained herein to the contrary notwithstanding, until such time as the Station becomes interconnected by co-axial cable or radio relay program transmission lines

(....)

- (i) COLUMBIA shall not be obligated to offer network sustaining programs to the Station, except such programs as COLUMBIA has available in the form of television recordings (and for which Station agrees to pay COLUMBIA'S charges); and
- (ii) network sponsored programs shall be delivered in the form of television recordings; and
- (iii) in lieu of the compensation specified in subparagraph (a) of I of this Schedule A, COLUMEIA will pay the Station with respect to the broadcasting of network spensored programs furnished by COLUMBIA during each week of the term hereof, thirty per cent (30%) of the gross time charges for such week, less the ASCAP and BMI deduction (and in this case the ASCAP and BMI deduction for any week shall be the amount obtained by multiplying thirty per cent (30%) of the gross time charges for such week by the ASCAP and BMI percentage).

615 So. Fifth St.

Dudley 4-2825

Las Vegas, Nevada

August 11, 1955



Mr. R. G. Jolley, President Las Vegas Television, Inc. P. O. Box 711 Las Vegas, Nevada

Dear Sir:

Enclosed are the following statements prepared from the books of the <u>LAS VEGAS TELEVISION</u>. INC.:

Exhibit A - Balance Sheet
Exhibit B - Statement of Revenue & Expenses
Exhibit C - Accounts Payable

The above statements were made from the corporation's books without audit verification.

Respectfully submitted,

Harold L. Earl

HLE/gle

LAS VEGAS TELEVISION. INC.

DAD AEQUA TERRATORIA TUAN		•
BALANCE SHEET	3-30108	
AS OF JULY 31, 1955	SEP 1955	12131
<u>ASSETS</u>	The state of the s	475%
CURRENT ASSETS: Cash - 1st Nat'l Bk of Nevada Bank of Las Vegas Petty Cash Accounts Receivable Less: Res. for Bad Debts Other Receivables Inventory - Tubes & Parts Office Supplies	\$ 1,389.60 4,732.36 50.00 \$ 81,350.35 6.371.91	\$ 6,171.96 74,978.44 818.40 3,018.12 600.00 \$ 85,586.92
TOTAL CURRENT ASSETS PIXED ASSETS:		4 0) 1)001)-
Transmitter Equipment Less: Res. for Depr. Tower Less: Res. for Depr. Antenna Less: Res. for Depr. Less: Res. for Depr. Less: Res. for Depr. Less: Res. for Depr. Test Equipment Less: Res. for Depr. Studio Equipment Less: Res. for Depr. Office Furniture & Fixtures Less: Res. for Depr. Less: Res. for Depr. Less: Res. for Depr. 1834.24 Less: Res. for Depr. 1834.24 15,822.30 15,822.30 3.208.39	\$ 78,304.97 8,062.33 21,521.54 16,516.07 2,742.72 59,823.12 7,957.77 29,970.96 12,613.91	
TOTAL FIXED ASSETS		237,513.39
OTHER ASSETS: Prepaid Lease Expense Prepaid Insurance Deposits Organization Costs	\$ 697.52 598.13 272.00 494.71	
TOTAL OTHER ASSETS	• .	2,062,36
TOTAL ASSETS		\$ 325.162.67

LAS VEGAS TELEVISION, INC.

BALANCE SHEET

AS OF JULY 31, 1955

LIABILITIES & NET WORTH

CURRENT LIABILITIES: Accounts Payable - Exhibit C Notes Payable - DuMont Laboratories Accrued Payroll Accrued Payroll Taxes Accrued Sales Commissions Accrued Property Taxes Accrued Interest - Stockholders Accrued ASCAP Accrued BMI		*	9,560.71 2,489.02 4,108.03 2,329.08 716.06 913.50 6,300.00 5,582.21 1,607.96
TOTAL CURRENT LIABILITIES	•	\$	33,606.57
FIXED LIABILITIES: Notes Payable - General Electric Stockholders TOTAL FIXED LIABILITIES NET WORTH:	\$ 113,997.71 60,000.00	, ,	173,997.71
Capital Stock - Auth. 5000 Shares Par Value \$100.00 per Share Less: Unissued & Unsubscribed Total Subscribed Stock Less: Subscriptions Not Called Total Net Loss Thru' 12-31-53 \$78,049.05 Less: Net Profit-Exhibit B 45.607.44	\$ 500,000.00 200,000.00 \$ 300,000.00 150,000.00 \$ 150,000.00	•	117 rra 20
	•	\$	117,558.39
TOTAL LIABILITIES & NET WORTH		\$	325.162.67

Exhibit C KLAS-TV Las Vegas, Nevada August 29, 1955

HAROLD L. EARL

PUBLIC ACCOUNTANT DUDLEY 4-2825

615 SOUTH FIFTH STREET

LAS VEGAS, NEVADA

LAS VEGAS TELEVISION, INC.

KLAS-TV	•		
Equipment (1) Transmitter (2) Antenna System (3) Frequency and modulation monitors (4) Studio Technical equipment (5) Acquiring land (6) Acquiring or constructing building (7) Roadways, freight, microwave and contingencies	25,000,00	Actual Costs \$ 96,281.95 36,144.63 5,000.00 91,339.35 38,155.26	26,144.63 31,339.35 18,155.26 (25,000,00)
Method of Financing	\$190,000.00	\$266,921.19	\$ 76,921.19
			·
(1) Cash and Notes - See Below (2) Same as 1 (3) Same as 1 (4) Same as 1 (5) None (6) Paid difference in cash (7) Change of transmitter site			Johnson
Original Cost - 1 through h	Anno meta		

Original Cost - 1 through 4 Balance due on Notes - July 31, 1955	\$228,765.93 107.910.44
Cash Paid	\$120.855.49

Notes Payable on Equipment - July 31, 1955

General Electric	\$	87,626.83	Pavable	12	mΩ.	at:	藿	3 120 51	***	
		13,797.25	8 (3.7 C).L).1 C	5	mo.	at	Š.	293.56 582.12	per	mo.
Total General Elec.		3,157.34 840.00 105,421.42	Payable Payable	12	mo.	at	4	440.34	per per	mo.
Dumont Television	-	2,489.02	Payable	3	mo.	at	\$	829.67	per	mo.

Total <u>\$ 107.910.44</u>

LAS VEGAS TELEVISION, INC.

STATEMENT OF REVENUE AND EXPENSE

AS OF JULY 31, 1955

LAS VEGAS TELE	VISION, INC.						
STATEMENT OF REVENUE AND EXPENSE							
AS OF JULY 31. 1955							
		Crry -	1000 Th				
	·		The second second				
T) ["###751#### .	Month of July 1954	Month of July 1955	Year to Date				
REVENUE: Sales of Station Time Local: Programs			•				
Local: Programs Announcements Nat'l: Programs	\$ 17,275.25 3,054.35 3,488.80	\$ 19,929.54 8,098.18	\$ 132,723.83 42,520.97				
Announcements Network	2,075.53 813.00	2,232.28 3,317.00 158.12	15,722.38 26,819.48 2,506.70				
Total Time Sales	\$ 26.706.93	\$ 33.735.12	\$ 220,293.36				
Other Revenue Sale of Film Sale of Art, Photo & Slides Sale of Talent	\$ 5,803.26 224.00 1,312.50	\$ 6,795.75 327.00 1,075.73	\$ 63,420.47 1,967.18 8,585.93				
Sale of Misc. or Other Items	(29.20)	(111.37)	746.97				
Total Other Revenue	<u>\$ 7.310.56</u>	\$ 8.087.11	\$ 74.720.55				
TOTAL REVENUE	\$ 34,017.49	\$ 41,822.23	\$ 295,013.91				
DIRECT EXPENSES:							
Art, Photo & Slides Talent	\$ 9,232.22 256.25 1,473.45	\$ 7,874.23 274.21 1,486.66	\$ 65,366.99 2,831.06				
Advertising Agency Commissions ASCAP & BMI Fees	1,172.41	1,552.67 854.06	12,585.88 10,578.34 5.976.92				
Total Direct Expenses	\$ 12,647.20	\$ 12.041.83	\$ 97.339.19				
NET OPERATING REVENUE	\$ 21,370.29	\$ 29.780.40	\$ 197.674.72				

LAS VEGAS TELEVISION, INC. STATEMENT OF REVENUE & EXPENSE As of July 31, 1955

OPERATING EXPENSES:	Month o	f Month of	
Technical Dename	July 1951	July 1955	TOUT. CO
Technical Department Expenses Salaries	·		Date
Outside Engineers	\$ 3,445.99		
	31.15	" 71711 470	\$ 24,164.94
Transmitter Power	589.80	260.23	66.25
"MUDBODIA P	160 10	768.46 161.14	4,244.07
	•	50.00	986.00
Other Technical Expense		22 70	350.00
Total Tadhnian D	5.52		1,371.33
Total Technical Dept. Exp.	\$ 4.234.94	6 1, 1, 1, -	19.31
Program Department Expenses Salaries		\$ 4.446.12	\$ 31,201.90
Salaries Expenses	A		3274
News Service	\$ 3,915.07	\$ 2,550.00	A
Royalties & Licenses	527.55	516.65	\$ 20,796.21
Studio Supplies Studio Lighting	60.00	140.00	4,461.58
*ATONIONE T W. 4	22.31	59.72	980.00
Automobile Expense	59.49	••	398.91 292.54
	65.00	64.01	424.38
other Program Expenses		50.00	500.00
Motol n	16.60	52.40	<i>352.2</i> 0
Total Program Dept. Exp.	£ /1 0/10		593.07
Sales Department	4.848.25	\$ 3.432.78	\$ 28 700 00
Salaries Expenses			28.798.89
Salesmen's Commissions	2.927.30	\$ 1.850.00	
	634.23	\$ 1.850.00 1.015.04	14,907.93
Telephone & Telegraph Advertising	490.98	557.74	5,903.54
Sales Promotion	-	64.01	4,678.10
PULLUMONTA The Three	13.91	527.20	402.49
Other Sales Expenses	455.00	_	343
	50.00	260.00	2,00
Total Sales Dept. Exp.	-		
- who	4.571.42	4.273.99	
			V

Cananal & Administrative Evenence	Month of July 1954	Month of July 1955	Year to
General & Administrative Expenses Salaries - Officers Clerical Rent	\$ 791.21 1,251.55 400.00	\$ 750.00 795.29 500.00	\$ 5,250.00 6,124.68 3,500.00
Office Supplies	174.93	208.05	731.21
Utilities	177.47	2 35.7 0	1,201.88
Telephone & Telegraph	317.55	218.05	1,122.27
Dues & Subscriptions	57.92	123.17	469.52
Stationery & Supplies	144.87	495.85	687.17
Postage	62.53	53.00	483.34
Entertainment	189.11	136.59	878.12
Freight & Cartage	43.55		22.07
Travel & Automobile Expense	163.60	594.48	1,575.05
Repair & MaintBldg. & Grounds F.I.C.A.	368.58	739.36	1,881.19
	231.16 312.04	188.82 205.81	1,520.58
State Unemployment Federal Unemployment	30.01	20.02	211.56
Nevada Industrial Accident	84.05	62.80	488.23
Group Insurance	89.44	112.86	719.74
Insurance	42.88	50.31	361.41
License & Taxes	•	130.50	963.50
Legal & Accounting	200.00	275.00	2,268.25
Discount & Collection Expense	•	108.80	1,055.01
Donations	37.50	••	36.00
Other General & Adm. Expense	200.94	-	292.79
Director's Fees			240.00
Total Gen. & Adm. Expense	\$ 5.370.89	\$ 6.003.74	\$ 34.074.53
TOTAL EXPENSES	\$19.025.50	\$ 18.156.63	\$125.090.39
NET PROFIT ON OPERATIONS	\$ 2,344.79	\$ 11,623.77	\$ 72,584.33
Add: Recovery of Bad Debts		114.98	340.98
TATAL	\$ 2,344.79	\$ 11,738.75	\$ 72,925.31
Less: Other Expenses			
Depreciation	1,812.85	1,851.86	12,963.02
Amortization	471.60	477.01	3,379.25
Interest	879.07	846.87	5,505.91
Bad Debts	658.74	804,46	5.469.69
TOtal Other Expenses	\$ 3.822.26	\$ 3,980,20	\$ 27.317.87
NET PROFIT	\$(1.477.47)	\$ 7.758.55	\$ 45.607.44

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LAS VEGAS TELEVISION, INC. ACCOUNTS PAYABLE AB of July 31, 1955

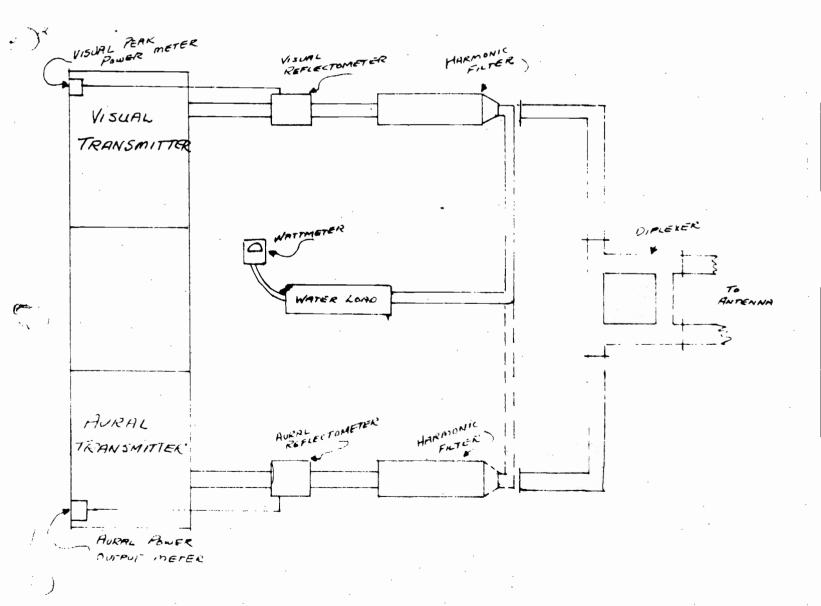
American Broadcasting Co. CBS Television CBS Television Film Sales Hyman Insurance Agency International News Service Las Vegas Sun McKenna & Wilkinson MCA - TV MPTV - Films National Broadcasting Co. New England Advertising Quality Films Ruppert Plumbing Screen Gems Southern Nevada Telephone Texas Rasslin' Weed Television Ziv Television	\$ 382.20 520.75 475.00 225.00 30.00 300.00 1,087.00 1,890.03 1,046.02 1,095.40 88.90 362.40 14.67 427.46 256.04 175.00 557.74 627.00
TOTAL	\$ 9.560.71

EXHIBIT K

KLAS-TV, LAS VEGAS, NEV.

PREPARED: 7/28/55

Power output of aural and visual transmitter is determined by attaching an RCA, type MI-19024-A, Water Load and Wattmeter at the "output" of G.E. model 4PYIC1 Harmonic Filter. Wattmeter reading of visual transmitter (transmitting black picture) is multiplied by 1.68 to obtain Peak Power reading. Visual and aural reflectometers are then calibrated for proper readings on POWER OUTPUT meters.



Due to the isolated location of KLAS-TV no regular frequency measuring service is available. T&T Measurements Company made the herein exhibited frequency checks here in Las Vegas with field equipment on July 1, 1955.

VISUAL FREQUENCY CHECK CONSULTANTS SCHEDULE Special 3624 The above measurement shows that at the time your station was measured it was found operating 13080 2 TOLERANCE: PLUS OR MINUS NO. OF MEASUREMENT_ within the frequency tolerance limits permitted your class of service by the FCC. FREQUENCY MEASUREMENTS CO ASSIGNED CLASS OF MEASURED FREQUENCY 181,240.000 KC (ZERO deviation from assigned frequency) 2557 ATLANTIC AVENUE LONG BEACH 6, CALIFORNIA TELEPHONE 4-2015 Smith, Chief Engineer 11:10 A.N. PDST TIME AND ZONE Attn: Mr. Ralph E. Las Vegas, Nevada Station KLAS-TV Box. 711 JAY E. TAPP July 1, 1955 REMARKS DATE

3

FREQUENCY MEASUREMENT REPORT

MADE BY THE

Confirmation - visual transmitter.

THIS MEASUREMENT
WAS MADE BY
FIELD INTENSITY SURVEYS
ANTENNA MEASUREMENTS
FIELD ENGINEERING SERVICE
BROADCAST ALLOCATIONS
FX

LONG BEACH OFFICE SERVICE AVAILABLE 24 HOURS
Daily Except Salurday and Sunday
FOR IMMEDIATE SERVICE TELEPHONE LONG BEACH 4-2018

"Plan Your FM and TV with Engineering from T & T"

AURAL FREQUENCY CHECK

RADIO ENGINEERING CONSULTANTS Ħ TOLERANCE: PLUS OR MINUS. MEASUREMENT ASSIGNED FREQUENCY RADIO MEASUREMENTS CO. CLASS OF BERVICE NO O LONG BEACH 6, CALIFORNIA TELEPHONE 4-2015 Attn: Mr. Ralph E. Smith, Chief Engineer Las Vegas, Nevada Station KLAS-TV P. 0. Box 711 JAY E. TAPP

FREQUENCY MEASUREMENT REPORT

m ~

MADE BY THE

MEASURED FREQUENCY
185,740,000 KG

SCHEDULE

Special

(ZERO deviation from assigned frequency)

10ths A.M. PDST

July 1, 1955

DATE

TIME AND ZONE

The above measurement shows that at the time your station was measured it was found operating within the frequency tolerance limits permitted your class of service by the FCC.

REMARKS

Confirmation - aural transmitter.

WAS MADE BY

HELD INTENSITY SURVEYS

ANTENNA MEASUREMENTS
FIELD ENGINEERING SERVICE
BROADCAST ALLOCATIONS

≥

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EXHIBIT M
KLAS-TV, LAS VEGAS, NEV.
7/30/55

DEMODULATED CURVE VISUAL TRANSMITTER, 0 TO 4.75 MC

Demodulated curve of TT6E visual transmitter was photographed from a Tektronix 524-D Oscilloscope. Transmitter modulator was fed a 0 to 5 mc. video sweep signal from a Marka-Sweep video sweep generator. Signal from transmission line feeding antenna was detected by a G.E. Demodulator, Model 4TV22-Bl being operated in the "Crystal Detection" position.

See below photograph of demodulated curve and block diagram of equipment set-up. See next page for graphic comparison with the FCC Ideal Demodulated Curve and the FCC lower tolerance curve.

PHOTOGRAPH OF DEMODULATED CURVE:

G.E. TY-28 F SIX-BAY ANTENNA

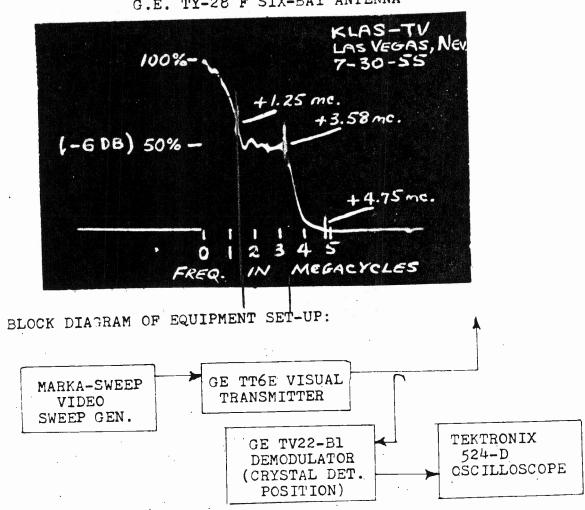


EXHIBIT MEKLAS-TV, LAS VEGAS, NEV. 7/30/55

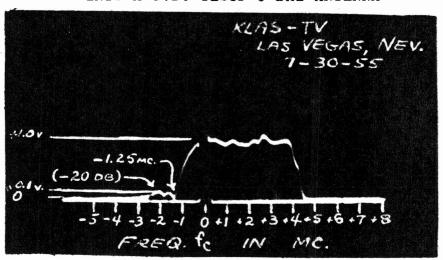
SIDEBAND RESPONSE, -5 TO +8 MC. FOR VISUAL TRANS-MITTER

Voltage measurements of the lower sideband to 5 mc below carrier frequency and of the upper sideband to 8 mc above carrier frequency were made on our TT6E Visual Transmitter utilizing an RCA BW-5A Sideband Response Analyzer and a Tektronix 524-D Oscilloscope. Measurements verify that lower sideband is attenuated 20 db or greater for all frequencies below 1.25 mc below carrier and also that upper sideband is attenuated 20 db or more for all frequencies above 4.75 mc above zero carrier. No measureable energy was present in the -3 mc to -5 mc and the +4.75 mc to +8 mc areas.

See below photograph of overall sideband response and a block diagram of equipment used.

PHOTOGRAPH OF OVERALL SIDEBAND RESPONSE:

G.E. TT6E TRANSMITTER OPERATING INTO A G.E. TY28F 6-BAY ANTENNA



BLOCK DIAGRAM OF EQUIPMENT SET-UP:

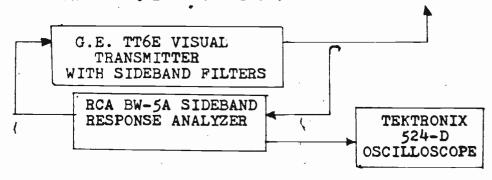


EXHIBIT M
KLAS-TV, LAS VEGAS, NEV.
8/31/55

R.F. HARMONIC MEASURE-MENTS, VISUAL AND AURAL TRANSMITTERS

The method used is as shown in Figures 1 and 2, and the results are tabulated in Figure 3.

The transmitter is fed through the harmonic filter at full power or black level, aural transmitter at full power into an RCA HI-19024-A dummy load. A short section of line is inserted containing a directional coupler used as a pick-up loop.

The fundamental was measured first as a calibrating voltage as shown in Figure (1). The voltage from the pick-up loop was fed through several GR-874 GG pads and a GR 874-F low pass filter into a GR 874-MR mixer. The local oscillator voltage was furnished by a GR-1021A csoillator. The mixer current was checked and calibrated for each change of frequency of the local oscillator by the GR-874-VI current indicator. The local oscillator was adjusted to give a beat frequency mixer output of 30 mc. The 30 mc. Intermediate Frequency was fed into a calibrated metering amplifier. This meter is the I.F. amplifier of a Stoddart MN-5 which reads directly in relative db.

After obtaining the fundamental calibrate voltage level, the fundamental rejection filters were inserted as shown in Figure (2). The rejection filters were tuned, which reduced the fundamental voltage in the meter to below the readable limit of the test equipment. The overall sensitivity limit of the test equipment has been established at minus 85 db.

To measure harmonics the local oscillator is tuned to a point 30 mc. below each harmonic and readings taken. This procedure was followed for each harmonic up to and including the 5th for both the aural and visual sections of the transmitter. At frequencies above 500 mc. the F500 low pass filter was replaced by the F1000 filter.

In all cases the harmonic content voltage was more than 85 db below the fundamental. These measurements are tabulated in Figure 3.

In addition to the required measurements, a check was made on the visual transmitter ahead of the harmonic filter. The 2nd harmonic content at this point was found to be 62 db below the fundamental and the higher harmonics were below this figure.

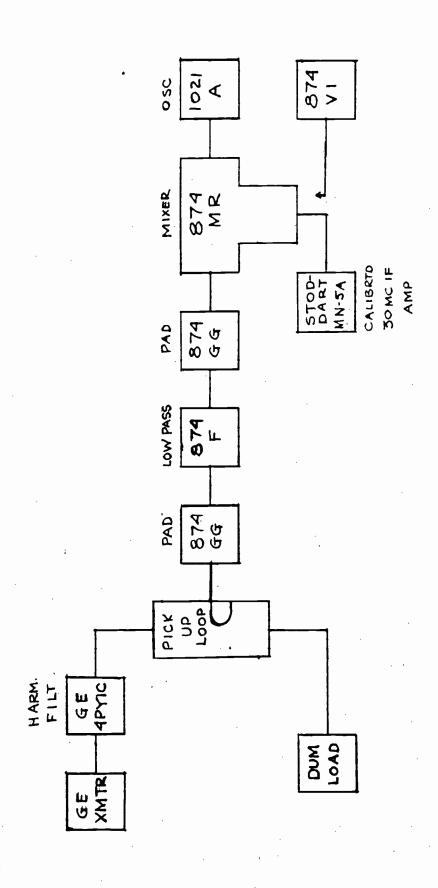


EXHIBIT M, FIGURE 1 KLAS-TV, LAS VEGAS, NEVADA 8/31/55 BLOCK DIAGRAM OF EQUIPMENT SET-UP FOR OBTAINING FUNDAMENTAL FREQUENCY CALIBRATING VOLTAGE FOR B.F. HARMONIC MEASUREMENT FOR VISUAL AND AURAL TRANSMITTERS

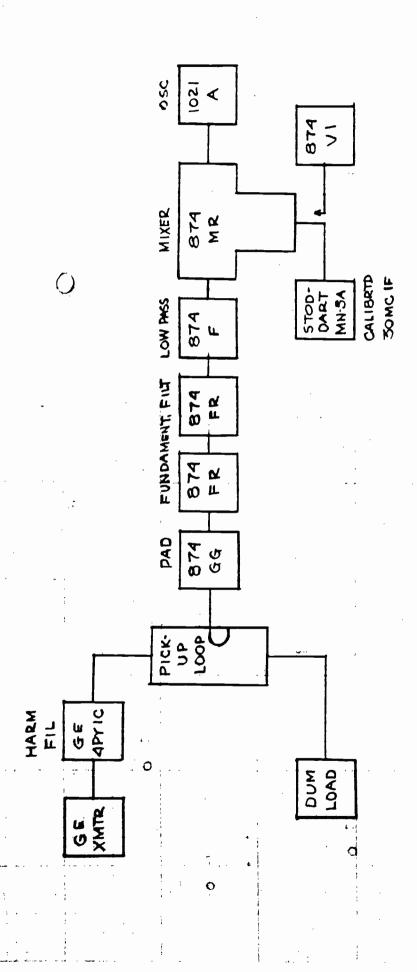


EXHIBIT M, FIGURE 2 KLAS-TV, LAS VEGAS, NEVADA 8/31/55 BLOCK DIAGRAM OF EQUIPMENT SET-UP FOR MEASUREMENT OF R.F. HARMONICS UP TO 1000 MC IN OUTPUT OF VISUAL AND AURAL TRANSMITTERS

EXHIBIT M, FIGURE 3
KLAS-TV, CH. 8-, LAS VEGAS, NEVADA
B.F. HARMONIC MEASUREMENT TABULATION
VISUAL AND AURAL TRANSMITTERS

VISUAL TRANSMITTER:

n 1														
HARMONIC	* ** 0	† †	-85 db	-88 db	-91 db	-93 db		‡ ‡	t t	-80 db	-83 db	-86 db	-88 db	
CORRECTION FOR FILTER	+2 db	+2 db	+3 dp	+3 dp	+3 qp	43 dp		+2 db	+2 db	+3 dp	+3 dp	+3 dp	dp Ex	
CORRECTION FOR LOOP	!	!	-6 db	qp 6-	-12 db	-14 db		!	!	-6 Db	qp 6-	-12 db	-14 db	
PADS REMOVED		!	-50 db	-50 db	-50 db	-50 db			!!!	-50 db	-50 db	-50 db	-50 db	
METER READING	37 db (Calibrate	0	0	0	0	0		29 db (calibrate	0	0	0	0	0	
LOW PASS FILTER	F500	F500	F500	F1000	F1000	F1000		F500	F500	F500	F1000	F1000	F1000	,
LOCAL OSC. SETTING	151.24 mc.	151.24 mc.	332.48	513.72	96.469	876.20		155.74	155.74	341.48	527.22	712.96	898.70	
FREQUENCY	181.24mc	181.24mc	362.48	543.72	724.96	906.20	ANSMITTER:	185.74	185.74	371.48	557.22	742.96	928.70	
HARMONIC	Fundamental (Filter Out)	Fundamental (Filter In)	2nd Har.	3rd "	4th "	5th "	AURAL TE	Fundamental (Filter out)	Fundamental (Filter In)	2nd Har.	3rd "	4th "	5th "	
	LOCAL OSC. LOW PASS METER PADS CORRECTION CORRECTION HA FREQUENCY SETTING FILTER READING REMOVED FOR LOOP FOR FILTER	LOCAL OSC. LOW PASS METER PADS CORRECTION CORRECTION SETTING FILTER READING REMOVED FOR FILTER 37 db 37 db 181.24 mc. F500 (Calibrate) +2 db	LOCAL OSC. LOW PASS METER PADS CORRECTION CORRECTION FREQUENCY SETTING FILTER READING REMOVED FOR FILTER Fall 37 db +2 db Fall 151.24 mc F500 (Callbrate) +2 db In) 181.24 mc F500 +2 db	TOCAL OSC. LOW PASS METER PADS CORRECTION CORRECTION SETTING FILTER READING REMOVED FOR FILTER FOR LOOF FOR FILTER 37	Incompleted in the control of the control o	Har. J62.48 F13.72 F1000 NETER PADS CORRECTION FOR LOOP FOR LOOP FOR LOOP FOR LOOP FOR FILTER CORRECTION FOR FILTER Har. 151.24 mc. F500 (Calibrate) +2 db +2 db +2 db Har. 362.48 332.48 F500 0 -50 db -50 db -6 db +3 db " 724.96 694.96 F1000 0 -50 db -12 db +3 db	IOCAL OSC. LOCAL OSC. LOCAL OSC. LOW PASS ABTER METER PADS PADS POR PONE PADS POR PONE CORRECTION POR PONE CORRECTION POR PONE CORRECTION PONE PONE CORRECTION PONE PONE CORRECTION PONE PONE PONE CORRECTION PONE PONE PONE PONE PONE PONE PONE PO	LOCAL OSC. LOW PASS METER PADS CORRECTION CORECTION CORRECTION CORRECTION CORRECTION CORRECTION CORR	COCAL OSC. LOW PASS METER PADS CORRECTION CALLUED Lor	COCAL OSC COMPASS METER PADS CORRECTION CORPECTION CORPE	DOCAL OSC COM PASS METER PADS CORRECTION CALL OLD CALL DLAG CAL		Incorr I	

Submitted 8/31/55, F F Bern

EXHIBIT N
KLAS-TV, LAS VEGAS, NEV.
8/24/55

PHOTOGRAPHS OF WAVEFORM OF TRANSMITTED SIGNAL

Included in this exhibit are two photographs of the transmitted signal derived from the output of the G.E. TV-21B demodulator and displayed on a 524-D Tektronix oscilloscope for photographing. The exhibit was prepared according to instructions in FCC Letter 11612, dated October 1, 1954, showing pedestal level, black level and maximum luminance (white) level as described by Section 3.682(a)(12),(13) and (14). The photographs indicate conformity with the rules showing white level at 12½ percent modulation, black level at 72½ percent modulation and pedestal level at 75 percent modulation. Zero carrier can be seen as a dot on the vertical presentation and a faint trace on horizontal presentation. Action of the "chopper" circuit in the demodulator causes the tilt in the vertical blanking period in the photograph of the vertical presentation.

HORIZONTAL PRESENTATION

VERTICAL PRESENTATION

PERCENT OF MODULATION

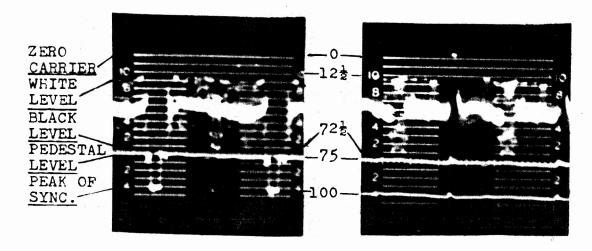


EXHIBIT O
KLAS-TV, LAS VEGAS, NEVADA
8/20/55

PHOTOGRAPHS OF TEST PATTERN TAKEN "OFF THE AIR"

Included in this exhibit are three photographs taken while transmitter was operating at full power. Test pattern slides were projected into a General Electric PE-5C iconoscope film chain. The two larger photographs were taken from an RCA Model 21-S-362M receiver; the smaller photograph was taken from the station calibration monitor connected to a G.E. TV-22B Demodulator. Faint dark horizontal bars on photographs were caused by reaction between camera shutter speed and television frame rate and were not present in the pictures on monitor and television receiver.

PFOTOGRAPH OF 8-BALL TEST PATTERN (RESOLUTION 325 LINES, 5 GREY-SCALE CIRCLES) TAKEN FROM RCA 21-S-362M RECEIVER:

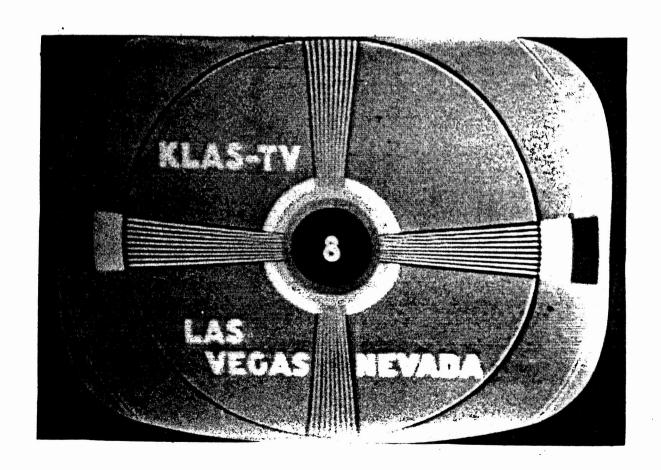
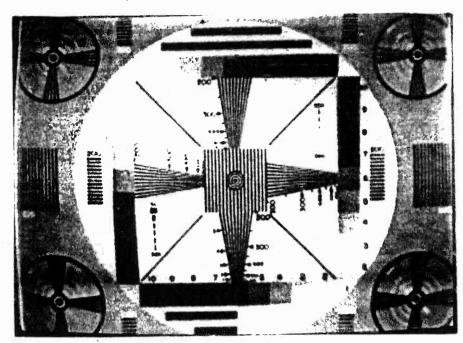


EXHIBIT O
KLAS-TV, LAS VEGAS, NEVADA
8/20/55

PHOTOGRAPHS OF TEST PATTERN TAKEN "OFF THE AIR"

PROTOGRAPH OF RTMA TEST PATTERN TAKEN FROM STATION CALIBRATION MONITOR AND G.E. TV-22B DEMODULATOR:



PHOTOGRAPH OF RTMA TEST PATTERN TAKEN FROM RCA 21-S-362 RECEIVER:

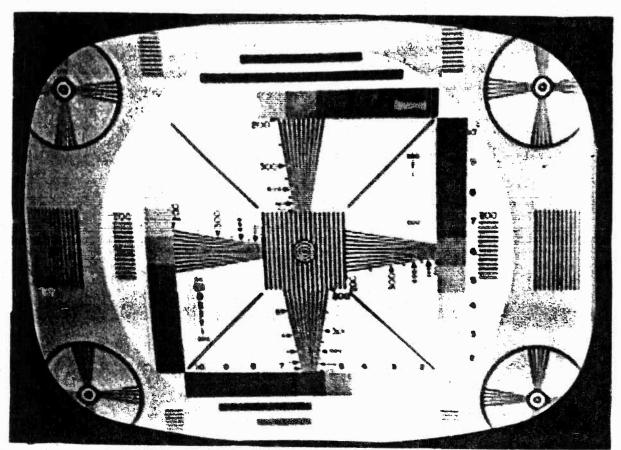


EXHIBIT P
KLAS-TV, LAS VEGAS, NEV.
7/28/55

OVERALL FREQ. RESPONSE PROCEDURES AND TABLES (AUDIO SYSTEM)

For these tests pre-amp and line amplifier gain controls were set at normal operating levels. Limiting amplifier was removed from system. Accuracy of modulation monitor was first checked with heterodyne frequency meter using "Bessel Zero System" from first thru fifth nulls. Tests indicate monitor is accurate within +3 percent of theoretical values.

Measurements were taken for frequencies of 50 thru 15,000 cycles at 100, 50, and 25 percent modulation. For each measured frequency the percentage of modulation of transmitter was held constant by varying audio signal generator input level.

Below is table of input levels and frequency response and block diagram of equipment set-up.

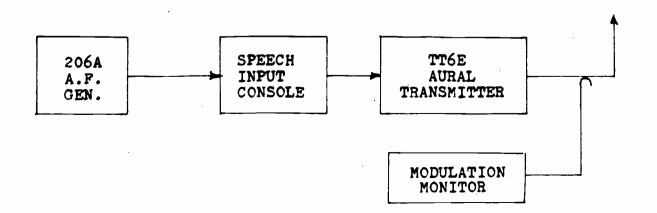
TABLE OF A.F. INPUT LEVELS AND FREQ. RESPONSE:

•		FOR 100 PERCENT MODULATION		FOR ERCENT LATION	POR 25 PERCENT MODULATION		
FREQ.	REL. INPUT	FREQ. RESPONSE	REL. INPUT	FREQ. RESPONSE	REL. INPUT	FREQ. RESPONSE	
50 100 400 1000 5000 7500 10000	-49.8db -50.0 -50.5 -51.5 -57.6 -60.0 -62.6 -64.5	-1.7 db -1.5 -1.0 0 +6.1 +8.5 +11.1 +13.0	-55.4 db -55.4 -56.0 -57.0 -62.8 -66.0 -67.8 -69.5	-1.6 db -1.6 -1.0 0 +5.8 +9.0 +10.8 +12.5	-60.3 d -60.5 -61.0 -61.8 -68.0 -70.7 -73.0 -75.0	b -1.5 db -1.3 -0.8 0 +6.2 +8.9 +11.2 +13.2	

BLOCK DIAGRAM OF EQUIPMENT SET-UP:

Equipment:

Hewlett-Packard 206A Audio Signal Generator (Hewlett-Packard 206A has output meter and attenuators) General Radio 1183-T2 TV Station Monitor



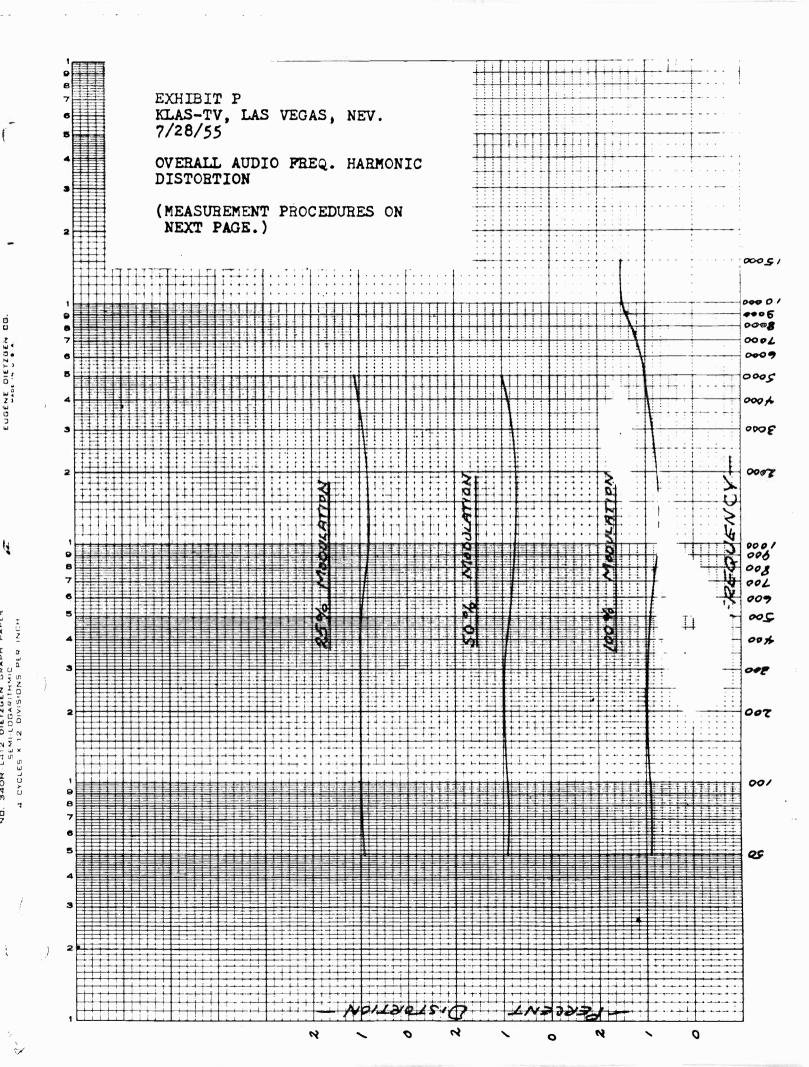


EXHIBIT P
KLAS-TV, LAS VEGAS, NEV.
7/28/55

OVERALL HARMONIC DISTORTION (AUDIO SYSTEM)

Measurements of audio frequency harmonic distortion were made with the equipment set-up shown in block diagram below. Standard 75 micro-second deemphasis is incorporated in the audio system of the General Radio 1183-T2 TV Station Monitor. Measurements were made with gain controls of pre-amplifier and line amplifier in normal operating positions.

Table below shows measured percentages of harmonic distortion for 100, 50, and 25 percent modulation.

TABLE OF HARMONIC DISTORTION:

FREQUENCY	100 PERCENT MODULATION	50 PERCENT MODULATION	25 PERCENT MODULATION
50 cps 100 400 1000 5000 7500 10000	0.9 percent 0.9 0.9 0.75 1.0 1.2 1.5 1.5	0.9 percent 0.9 0.9 0.75 1.0	0.9 percent 1.0 1.0 0.8 1.1

BLOCK DIAGRAM OF EQUIPMENT SET-UP:

Equipment:

Hewlett-Packard 206A Audio Signal Generator Hewlett-Packard 330C Noise & Distortion Analyzer General Radio 1183-T2 TV Station Monitor

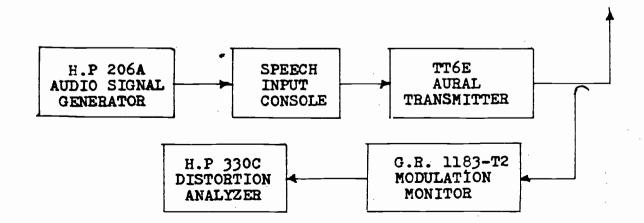


EXHIBIT P
KLAS-TV, LAS VEGAS, NEV.
7/30/55

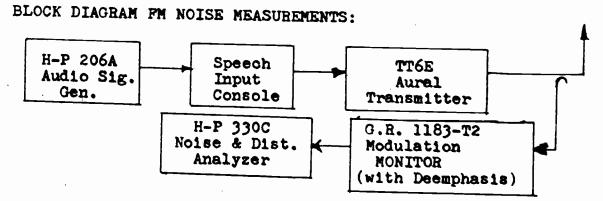
OVERALL NOISE LEVEL (PM)
OVERALL NOISE LEVEL (AM)
(AUDIO SYSTEM)

The FM noise level of the audio system was measured with the equipment set-up shown in block diagram below. Measurements were made through three separate pre-amplifiers and on through the audio system with all gain controls in normal operating positions.

Measured FM Noise below 100 percent modulation:

Through Pre-Amp #2 = -60.5 db Through Pre-Amp #3 = -60.8 db Through Pre-Amp #4 = -61.5 db

These measurements verify compliance with FCC requirement of -55 db or better.



The AM noise level of the audio system was measured with the equipment set-up shown in block diagram below. A sample of the aural transmitter output was demodulated by a composite crystal detector and load containing 75 microsecond de-emphasis. The DC voltage across the load resistor was measured and an AC voltage having a peak value equal to the rectified DC voltage was fed across the load. The H-P 330C Noise meter was adjusted for zero, the AC voltage removed, and the AM noise level measured.

Measured AM Noise Level below 100 percent modulation:

¥}

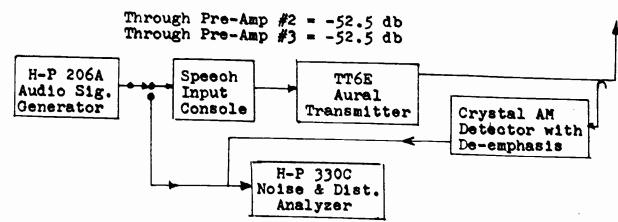


EXHIBIT P
KLAS-TV, LAS VEGAS, NEV.
8/31/55

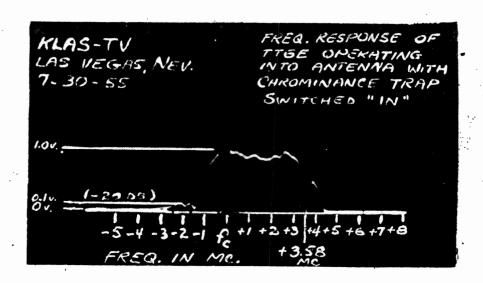
R.F. HARMONIC CONTENT IN AURAL TRANSMITTED SIGNAL

R. F. Harmonic measurements were prepared as a single exhibit by Mr. E. E. Benham, Chief Engineer of KTTV, Los Angeles, California. This exhibit constitutes the last portion of EXHIBIT M. For complete information turn to EXHIBIT M.

KLAS-TV, LAS VEGAS, NEV. 7/30/55

INFORMATION REQUIRED BY FCC LETTER 11612, OCT. 1, '54

- I. Transmitting equipment of KLAS-TV has not been modified to meet color performance requirements per section 3.687.
- II. KLAS-TV does accept color programs from outside sources.
- III. Chrominance portion of such color programs have been attenuated by the installation of a General Electric Monochrome Modification Kit, PL-7145330-G2 in the modulator of our TT6E Visual Transmitter. See below photograph of TT6E transmitter operating into the antenna with chrominance trap switched "in". Photograph was taken utilizing an BCA BW-5A TV Sideband Response Analyzer and a Tektronix 524-D Oscilloscope. Photograph indicates that 3.58 mc and 4.75 mc. points are attenuated more than minimum FCC requirements.



- IV. Does not apply.
- V. Substitute Paragraph 9(a) is attached as EXHIBIT "M".
- VI. Addition to Paragraph 10 is attached as part of EXHIBIT "P".

FEDERAL COMMUNICATIONS COMMISSION Broadcast Application Name of applicant TELEVISION BROADCAST ENGINEERING DATA Las Vegas Television 1. Purpose of authorization applied for: (Indicate by check mark) (If application is for a new station or for any of the changes numbered B through E, complete all paragraphs of this form; if change F is of a character which will change coverage or increase the overall height of the antenna structure more than 20 feet, answer all paragraphs, otherwise complete only paragraphs 2 and 3 and the appropriate other paragraphs; for changes G through I, complete only paragraph 2 and the appropriate other paragraphs; for change J, complete only paragraphs 2 and 16) C. Change transmitter location \(\tilde{\chi} \) Change frequency ENGINEERS COPY H. Install auxiliary or alternate 100 17 153A Other changes (specify)

Change studio location E. Approval of site and antenna RKUND 4. Transmitters 2. Facilities requested Frequency Channel number (a) Vigual Type No. Rated power Meke In dbk:6.99 TIGE 186 8 General Electric 180 In kw: 5.0 Mc. (b) Aural Effective Radiated Power Antenna height above average Type No. Rated power Make (visual) terrain in feet. (Must agree In dbk: 4.31 with height given in Para. 12 In dbk: 14.22 of this Section) General Electric TT6E In ka: 2.7 In kw: If the above transmitters are composite or of types for which data (a) Antenna structure have not been filed with the F.C.C., attach as Exhibit No. Is the proposed construction in Yes 🚺 a complete showing of transmitter details in accordance with the the immediate vicinity or does it Commission's Rules. The showing should include schematic diagrams serve to modify the construction of any standard broadcast makes and types of tubes, operating constants of the last radio stages, full details of frequency control, vestigial sideband filter (if used), multiplex networks and isolation networks. If changes are to be made in a licensed transmitter, include a scheduler of the stage of t station, FM broadcast station, television broadcast station, or other class of radio station? If "Yes", attach as Exhibit changes are to be made in a licensed transmitter, include a schematic diagram and give full details of the changes. On File F.C. complete engineering data thereon. Will proposed structure be constructed Yes No No III on the top of an existing structure?

If "Yes", describe and give height above ground of existing structure. (c) Describe in Exhibit No. means which will be used for determining and maintaining power output of the transmitters to the values specified in this application. Overall height in feet Modulation monitors Overall height in feet above ground. (Do not include the above mean sea level. (Do (a) Visual monitor or monitoring equipment height of any obstruction lightnot include the height of Make Type No. ing which may be required.) any obstruction lighting (b) Aural monitor which may be required.) 23101 2381 Make General Radio Height of antenna radiation center in feet above mean sea level. Frequency monitors(a) Visual monitor 22921 (b) Antenna data Make Type No. Accuracy Visual 0.001% GR-1183 General Radio Type No. Make (b) Aural monitor Type No. Accuracy TY28F General Electric GR-1183-T2 0.001% General Radio Power gain in db Mimber of sections If the above monitors or monitoring equipment have not been approved by the F.C.C., include as Exhibit No. 7.78 technical description of each. On File F.C.C. Same as Above. Aural (if separate) Transmission line proposed to supply power to the antenna Type No. Make from the transmitter (a) Visual Make Type No. Description 5.15 ohm Communications Number of sections Power gain in db 101-506 concentric Products, Co., Inc. Size (nominal inside trans-Length in feet Power loss in dh for this length verse dimensions) in inches Is directional antenna proposed? Yes 🗍 No 🔼 3 1/8" 2371 0.5 If "Yes", attach as Exhibit No. complete engineering data thereon.

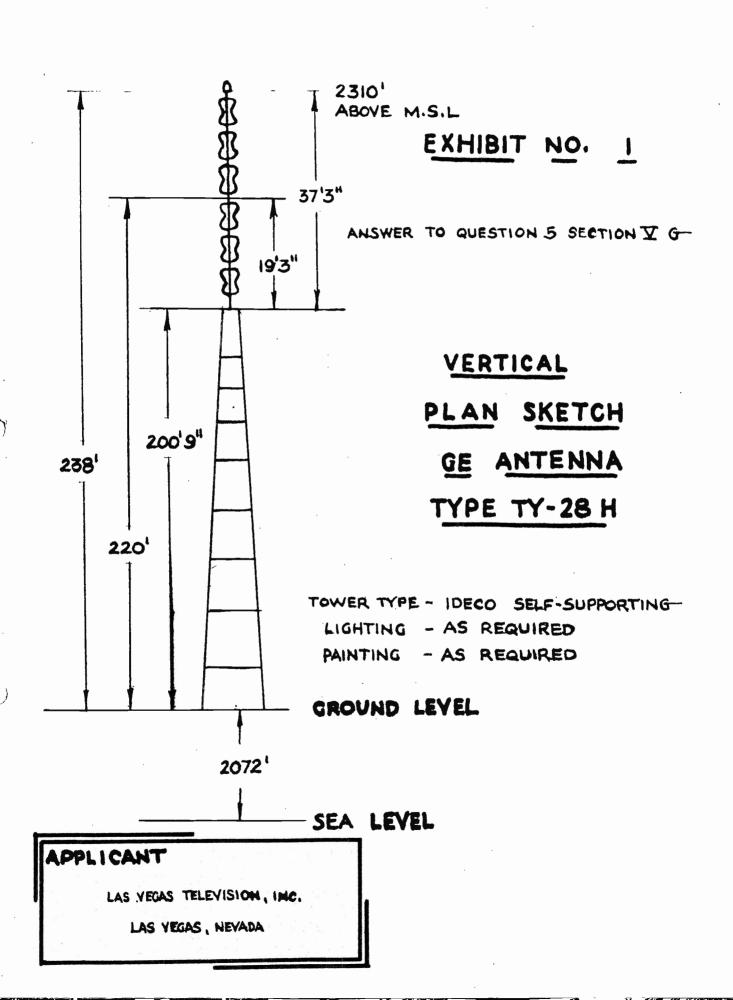
				AST ENGINEERING DATA		Section V-C, Pag
	on line (Con			10. Will the studios,	cameras, microphones,	Yes 🗶 No 🗌
(b) Aural (if	'separate)	Same as	-	and other equipment p	proposed for trans-	
Make		Type No.	Description	mission of programs to pliance with the Comm	9	
Size (nominal	inside	Length in	Power loss in db for			
transverse di	mension) in	feet	this length	11. (a) Attach as Exh	ibit No. a map(s)	(topographic whe
inches				obtainable, such as U	J. S. Geological Survey	quadrangles) for
	_			· ·	iles of the proposed tr	renemitter location
9. Proposed o	peration			4	on the following data:	
(a) Visual Transmitter p	ann aitmit	Multiplexer lo	ogo Tumit to tumo		mitter location—accur ocation and call letter	
(after vestig		in db:	oss Input to trens- mission line in	•	s (except amateur) and	
band filter,			dbk:	known commerci	ial and government rece	eiving stations
In dbk: 6.9	9	0.05	6.94	•	of the proposed trans	mitter location;
In low: 5.0	-			-	tion of main studio; the area within 2 miles	of numbered
Transmission	Antenna in	put Antenna po	ower Effective radi-	•	ocation, suitably design	
line power	power in di				ness, industrial, and m	-
loss in db:					t radials each extendir	•
ا م ح	6.11	7.78	In dbk: 14.22	•	miles from the propos	
0.5	0+44	1.10	In kw: 26.53	E .	or more of which must city or cities to be a	-
(b) Aural					ng Exhibits I	
Transmitter p	ower output	Multiplexer los	ss Input to trans	7080 CR_K_21	1-53; No Cham	,
Į .		in db:	mission line	(b) Attach as Ext	nibit No. The profi	ile graphs with
In dbk:	3		4 distribution	reasonably large scal	nibit No. profi les for the radials in	(a) (5) above.
In kw: 2.	.7	0.05	(3.93)	Each graph shall show	v the elevation of the	antenna radi-
TII KW.	-				ify each graph by its b location. Direction o	
Transmission	Antenna in				n, with angles measured	
line power loss in db:	power in d	bk: gain in di	b: ated power		raphical data on each.	
	9 1.9	7 70	In dbk: 11.21			
0.5	3.43	7.78				
and in accord	ance with the	e procedure pre		e between two and ten milon's Rules, supply the fo		
and in accord Grade B conto Radial bearing	ance with the ours are those Avera of ra	e procedure present in the absence ge elevation dial (2-10 mi.)	the eight mile distance scribed in the Commission e of interference.)			
and in accord Grade B conto Radial	ance with the ours are those Avera of ra	e procedure pre- e in the absence ge elevation dial (2-10 mi.) et above mean	the eight mile distance scribed in the Commission of interference.) Height in feet of antenna radiation	on's Rules, supply the for Effective ra- diated power	ollowing tabulation of Predicted distance in	data: (Grade A Predicted distance in
and in accord Grade B conto Radial bearing (degrees tr	ance with the	e procedure pre- e in the absence ge elevation dial (2-10 mi.) et above mean evel	the eight mile distance scribed in the Commission of interference.) Height in feet of antenna radiation center above average elevation of radial (2-10 mi.)	Effective ra- diated power in radial direction	Predicted distance in miles to the Grade A contour 71 dbu	Predicted distance in miles to the Grade B contour
and in accord Grade B conto Radial bearing (degrees tr	ance with the	e procedure present the absence ge elevation dial (2-10 mi.) et above mean evel	the eight mile distance scribed in the Commission of interference.) Height in feet of antenna radiation center above average elevation of	Effective radiated power in radial direction	Predicted distance in miles to the Grade A contour 71 dbm	Predicted distance in miles to the Grade B
and in accord Grade B conto	Avera of ra in fe sea l	e procedure present the absence ge elevation dial (2-10 mi.) et above mean evel	the eight mile distance scribed in the Commission of interference.) Height in feet of antenna radiation center above average elevation of radial (2-10 mi.) 197. feet	Effective ra- diated power in radial direction	Predicted distance in miles to the Grade A contour 71 dbu	Predicted distance in miles to the Grade B contour 56
and in accord Grade B conto Radial bearing (degrees tr	ance with the are those Avera of ra in fe sea l	e procedure pre- e in the absence ge elevation dial (2-10 mi.) eet above mean evel 2095 feet 1815 1800	the eight mile distance scribed in the Commission of interference.) Height in feet of antenna radiation center above average elevation of radial (2-10 mi.)	Effective radiated power in radial direction	Predicted distance in miles to the Grade A contour 71 dbu	Predicted distance in miles to the Grade B contour
and in accord Grade B conto Radial bearing (degrees tro	ance with the ars are those Avera of ra in fe sea l	e procedure prese in the absence ge elevation dial (2-10 mi.) set above mean evel 2095 feet 1815 1800	the eight mile distance scribed in the Commission of interference.) Height in feet of antenna radiation center above average elevation of radial (2-10 mi.) 197 feet	Effective radiated power in radial direction	Predicted distance in miles to the Grade A contour 71 dbm	Predicted distance in miles to the Grade B contour 56
and in accord Grade B conto Radial bearing (degrees tro 15 90 135 180	ance with the	e procedure present the absence of the absence of the above mean evel 2095 feet 1815 1800 1931 2202	the eight mile distance scribed in the Commission of interference.) Height in feet of antenna radiation center above average elevation of radial (2-10 mi.)	Effective radiated power in radial direction	Predicted distance in miles to the Grade A contour 71 dbu	Predicted distance in miles to the Grade B contour 56
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padcast Application		DADCAST ENGINEERING DATA	Section V-C, Page (
Proposed location of trans	County	Geographical coordinates (to b	be determined to nearest second) o
Nevada	Clark	the proposed TV antenna struct	aire.
Mis. Les Vegas	Wilbur Clark's	North latitude	West longitude
ity Limite-Hwy 9		36° 08' 06'	115°09 地
were coordinates		S. Topo sheet of area	
ermined? See also E	whilst I of MICT 108	39 GR 5-21-53; No Chi	mge.
Proposed location of main	studio Same as D. a.	Hamilton Site	
te	County	Other studios proposed	
W 4		W	<u>.</u>
Nevada	CIMPE	None at Present	5
VML to Vegas	Store address if known.		
ity Limits-Hay 9	· · · · · · · · · · · · · · · · · · ·		
rel marron-rel /		· ·	
State the minimum value of	f field strength in dhy predicte	d in accordance with the method pr	rescribed in the Commission's Pul-
	r the entire city in which the ma	_	Coci 1000 Hi the Commission's Roll
tigit will be provided ever	the division of the major of the major	In state is issaid.	
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	90 (11)	reduried)	
73.5 ()		all law assessed as possification of	£ +ho
(a) Does the proposed tran Commission's Rules?	smitter location comply with the	minimum separation requirements of	Yes 📉 No 🦳
(b) If any co-channel sepa	rations are proposed that are les	ss than the applicable minimum sepa	aration requirement plus 20 miles
or if other channel se	parations are proposed that are 1	ess than the applicable minimum se	eparations plus 10 miles, list
such separations below	. (Include existing stations, pr	roposed stations and assignments;	the location and geographical
coordinates of each an	tenna; the distance to each from	the proposed transmitter location	; and the method used in each
	e distance.) If none, so state.	• •	
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TATE OF NEVADA) GUNTY OF CLARK)	SS	,	
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Voter Public	Com Oct	My C	Commission Expires Oct. 15, 1955
mouth 1 mile	You make	mission expires	
·	rty Com	TROTAL SALTIES	*
		•	. •
T certify that T am the	e Technical Director, Chief Enviro	eer, or Consulting Engineer of the	radio station for which this app
		ing statement of technical informa	
best of my knowledge ar	nd belief. (This signature may be	omitted provided the engineer's or	
from which the informat	tion contained herein has been obt	tained is attached hereto.	
•			2
	1	tster thum	uras-
Date MAR. 26	1954	chnical Director. Chief Engineer o	or Consulting Engineer

in is sinear plantachers The instant application is a request by Las Vegas
Television, Inc. to modify its outstanding construction permit
(BMPCT-1089) to conform to the tower height and power with
which KLAS-TV is currently operating under an STA. Upon the
granting of this request, KLAS-TV will be in a position to
file FCC Form 302 and request regular licensed operation.
Minor changes in stockholdings (calling of stock subscriptions
and debentures) are shown on 323 Reports on file with the
Commission.

Broadcast Application		RAI MARIN				•
ANTENNA AND OTTO	Na Na	me of applica	CATIONS COMMISSI	ON	· · · · · · · · · · · · · · · · · · ·	<u></u>
ANTENNA AND SITE INFO	RMATION L:	Las Vegas Television, Inc.				Section V-G (An
Section I)	Add	dress where e	ipplicant can be	on, Inc		
Since this Section	La	gs Vecs Fiphic C	Inclicant can be real lark's Des	ert Inn	on	
navigation, it is necessary that all the	Regional Airspace Jubecommi	ttee of the air	o, Nevada			
Since this Section is submitted to the R navigation, it is necessary that all the Legal Coumsel McKenna & Wilkins	carred for be suppl	ied. Previousi	y and separately filed in	for elegrance in	nonnestion with	obstructions to at
Address 1735 DeSales Washington	on		Rurpose of applicat	ion (Check en	ment porated by	reference.
Washington 6,	Street, N.W	•	l a New antenna on	otrace to		
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Aptos, Califor	rnia	I				opinion of the app
Grass of Station Facil	lities requested		we actualitica	l hazard of th	e antenna.	rait and thereby m
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1. Location of enterma State County			same area.		COMELE	s in
7	City or Town 1.0 mi. S	SW S	99 075			
Exact enteres	Las Vorna	. 1	ee engineer 089, GR 5-2	ing Ex	h. VI o	f BMPCT-
Exact antenna location (street addressive distance and direction from, as	ess) (If outside city	limits	Submit as Publication		NO Cha	nge
with side with a		W(1)	Ocation of the	· a char	t on which is	
DH (limits on U	rt 1	the natural formation isted above.	ns and/or th	existing mar	n-made structures
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Deographic coordinates (to be determ for directional antenna give coordin	nined to nearest seem	1	anding one	pending upon	Droximiter	actional Aeronau
or single vertical radiator give to	ates of center of arm	rav.) fo	rom a landing	men the ante	nna site ic -	onautical Cha
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= == may within	lo miles 🔷 🚗	0	A GAR CATE	struk men-mede	structures lis	sted above.
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MAK



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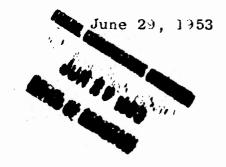
LAW OFFICES

MCKENNA & WILKINSON

JAMES A. MCKENNA, JR.
VERNON L. WILKINSON
DAVID S. STEVENS
LEONIDAS P. B. EMERSON

TELEPHONE NATIONAL 8-2931

WASHINGTON 6, D. C.



Mr. T. J. Slowie, Secretary Federal Communications Commission Washington 25, D. C.

Dear Mr. Slowie:

On behalf of Las Vegas Broadcasters, Inc., permittee of television station KLAS-TV, Las Vegas, Nevada, I hand you herewith application for Special Temporary Authority to commence equipment tests on July 1 and program tests on July 15, 1953.

Very truly yours,

Vernon L. Wilkinson

Enclosures



FCC Form 301 Section I Form Approved Budget Bureau No. 52-R014.10

United States of America Federal Communications Commission

APPLICATION FOR AUTHORITY TO CONSTRUCT A NEW BROADCAST STATION OR MAKE CHANGES IN AN EXISTING BROADCAST STATION (Revised 8-6-52)

INSTRUCTIONS

A. This form is to be used in applying for authority to construct a new AM (standard), commercial FM (frequency modulation), or commercial television broadcast station, or to make changes in existing commercial broadcast stations. This form consists of this part, Section I, and the following sections:

Section II, Legal Qualifications of Broadcast Applicant

Section III, Financial Qualifications of Broadcast Applicant

Section IV, Statement of Program Service of Broadcast Applicant

Section V-A, Standard Broadcast Engineering Data

Section V-B, FM Broadcast Engineering Data

Section V-C, Television Broadcast Engineering Data

Section V-G, Antenna and Site Information

- B. Prepare three copies of this form and all exhibits. Swear to one copy of Section I. Prepare two additional copies (a total of five) of Section V-G and associated exhibits. File all the above with Federal Communications Commission, Washington 25, D. C.
- 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. Show date of preparation of each exhibit, antenna pattern, and map, and show date when each photograph was taken.
- D. The name of the applicant stated in Section I hereof shall be the exact corporate name, if a corporation; if a partner-ship, the names of all partners and the name under which the partnership does business; if an unincorporated association, the name of an executive officer, his office; and the name of the association. Inother Sections of the form the name need be only sufficient for identification of the applicant.
- E. Information called for by this application which is already on file with the Commission (except that called for in Section V-G) neednot 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 of 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 must be executed by applicant, if am individual; by a partner of applicant, if a partnership; by an officer of applicant, if a corporation or association; or by attorney of applicant only under conditions shown in Section 1.303, Rules Relating to Organization and Practice and Procedure, inwhich event satisfactory evidence of disability of applicant or his absence from the Continental United States and authority of attorney to act must be submitted with application.
- G. Before filling out this application, the applicant should familiarize himself with the Communications Act of 1934, as amended, Parts 1, 2, 3 and 17 of the Commission's Rules and Regulations and the Standards of Good Engineering Practice.
- H. 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.

Tireywo.							
4	-ff:	addanaa	o.f	arblicant	(See	Instruction	n)

Name and post office address of applicant (See Instruction D

Las Vegas Broadcas ers, D. O. Box 1510
Las Vegas, Nevada

Send notices and communications to the at the post office address indicated Frederick G. Stoye (above address)

1. Requested facilities

180- Channel Power in kilowatts
No. Night Day
186 mc 8 27.9 27.9

Hours of operation

Unlimited Sharing with (Specify Stations)

Daytime only None None

Limited None

Type of station (as Standard, FM, Television) **Television**

Location of main studio3003 South 5th Street

Las Vegas Nevada

2. If authority to make changes in an existing station is requested See attached exhibit.

a. Present facilities

Frequency | Call | Channel | Power in kilowatts | Minimum hours operation | Day | Other (Specify Stations) | Other (Specify) |

Limited | Location of main studio | City | State

b. If this application is for changes in an existing authorization, complete Section I and any other sections necessary to show all substantial changes in information filed with the Commission in prior applications or reports. In the spaces below check Sections submitted herewith and as to Sections not submitted herewith refer to the prior application or report containing the requested information in accordance with Instruction E. (If contemplated expenditures are less than \$1,000, do not complete Section III. Section IV not required for applications for minor changes not involving change in power, change in frequency, change in hours of operation, or moving from city to city.)

Section No. Para. No. Reference (File or Form No. and Date)

Section II)			
Section II	See	BMPCT-1089,	granted
Section IV)	May	26, 1953	

Have there been any substantial changes in the information incorporated in this application by reference in this paragraph?

3. If this application is contingent on the grant of another pending application, state name of other applicant and file number of other application.

Not applicable

FCC Form 301	
the United States because 1/C C 304 of the Commin	ar frequency or of the ether as against the regulatory power of ther by license or otherwise, and requests an authorization in ications Act of 1934).
accordance with this application. (See Section 300 of the Samuel The applicant represents that this application is not filed for the containing of the samuel that the samuel	he purpose of impeding, observations and all the exhibits
All the statements made in the application and attached exhibits	out in full in the application.
The applicant, or the undersigned on the applicant's behalf, state as to all matters which are relevant to this application and that	that he has endeavored to supply it in his own knowledge.
Dated this 27th day of June , 19 53	Les Verns Television, Inc.
	(Name of Applicant)
	By/s/ Frederick G. Stoye
	Treasurer
Subscribed and sworn to before me this 27th day of June, 19 53	- /s/ F. Perry Knowles Notary Public
SCAL Scal Sc	ediction
requires, otherwise state that law does not require My commission	expires
If applicant is represented by legal or engineering counsel, to state name and post office address: necticut Ave.,	egal McKenna & Wilkinson, 1028 Con- Washington 6, D. C.; Engineering,
Grant Wrathall Rio Dal Bar April	
Exhibit No. Section and Para. No. of Form whose direction exhibit was	III by whom or (2) ander
	* 1
This is a request for special	temporary authority to commence
equipment tests on July 1 and	temporary authority to commence program tests on July 15, 1953, tenns pending delivery of the
using a single bay batwing an authorized six-bay unit. As	tenna pending delivery of the shown by the attached engineering
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Section I, Page 2

ENGINEERING DESCRIPTION

PROPOSED TEMPORARY OPERATION

KLAS-TV - LAS VEGAS, NEVADA



June, 1953

GRANT R. WRATHALL Radio Engineer Aptos, California

STATE OF	CALIFIR CALIFIR	NIA)	
)	\$ 9
COUNTY	OF SANTA	CRUZ)	

GRANT R. WRATHALL, having first been duly sworn, on his oath states that he has prepared the attached engineering statement and exhibit; That he believes all parts of same to be true and correct,

Subscribed and sworn to before me this 19th day of June, 1953.

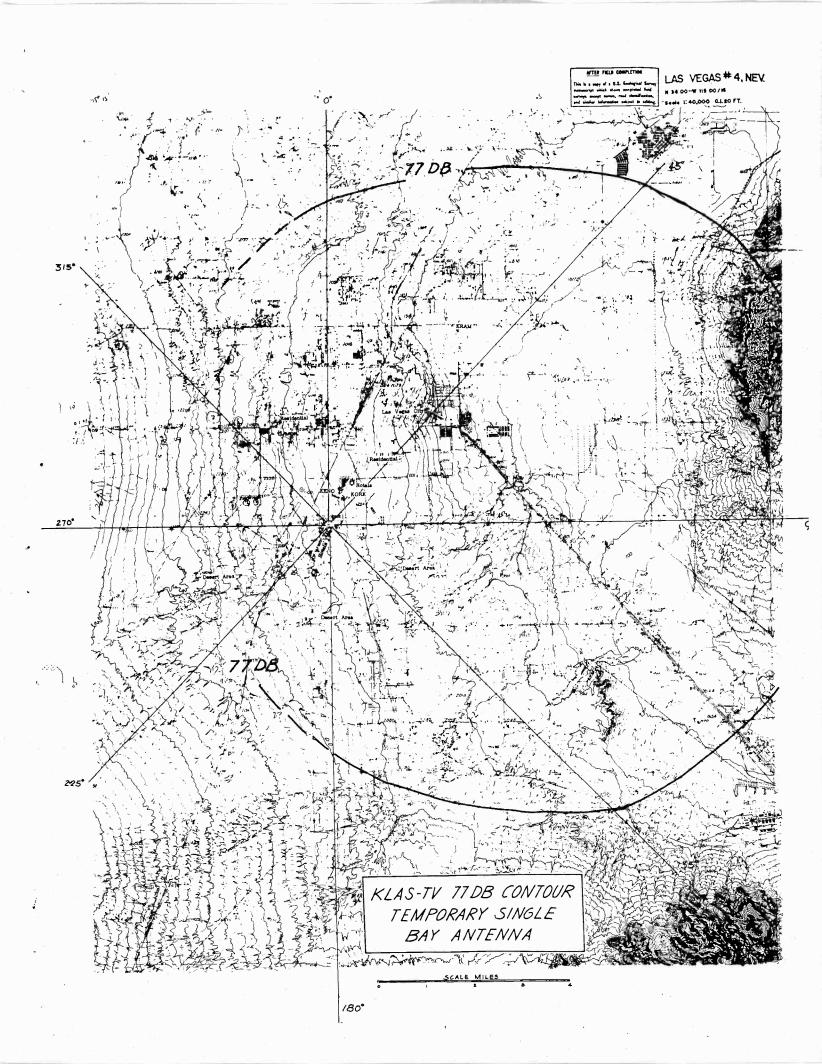
Notary

My Commission Expires April 3: 1954

Engineering Description Proposed Temporary Operation KLAS-TV - Las Vegas, Nevada

KLAS-TV proposes to operate from the site specified in the construction permit with a single-bay batwing temporary antenna pending the delivery of the authorized six-bay unit. The single-bay antenna will be mounted approximately eight feet above the top level of the 250-foot, self-supporting tower now under construction at the site location. Mean elevation of the batwing above ground elevation will be approximately 256 feet.

Assuming +0.41 db antenna gain and 6.5 db antenna input power level, the 77 db signal will extend beyond the limits of greater Las Vegas in all directions. Approximate limits of the temporary 77 db signal contour in pertinent directions is shown on the exhibit attached.



RJ Q5B 5/13/63

amendment Liplicate BMPCT-1089

3RD AMENDMENT TO BMPCT 1089

Las Vegas Television, Inc. herewith amends the above entitled application filed April 20, 1953 in the following particular:

l. Corrects the geographical coordinates to show transmitter site as North latitude 36° 07' 49" and West longitude as 115° 09' 52".

Respectfully submitted,
LAS VEGAS TELEVISION INC.

TELEVISION FAGILITIES DIVISION

MAY 13 1553

BROADCAST BUREAU

By:

Treasurer

Subscribed and sworn to before me this 12th day of May, 1953

/s/ Virginia S. Breen
Notary Public

My Commission Expires April 14, 1954

SEAL

LAW OFFICES MCKENNA & WILKINSON

Blive 12-53

JAMES A. MCKENNA, JR VERNON L. WILKINSON LEONIDAS P B EMERSON

TELEPHONE NATIONAL 2931

1028 CONNECTICUT AVENUE WASHINGTON 6, D. C.

May 12, 1953

Mr. T. J. Slowie, Secretary Federal Communications Commission Washington 25, D.C.

Dear Mr. Slowie:

On behalf of Las Vegas Television, Inc., I hand you herewith 3rd Amendment to the application (File No. BMPCT-1089) for modification of construction permit for KLAS-TV at Las Vegas, Nevada.

Very truly yours,

Vernon L. Wilkinson

Enclosures

/car



Implicate
BMPCT-1089
TO BMPCT-1089

FURTHER AMENDMENT TO BMPCT-1089

LAS VEGAS TELEVISION, INC., herewith amends the aboveentitled application filed April 20, 1953 in the following additional particulars:

- 1. Corrects the geographical coordinates to show transmitter site as North latitude 36° 07' 51" and West longitude as 1150 09' 46".
- Corrects a clerical error in the amendment filed April 27, 1953 by changing "Las Vegas Telecasters, Inc." in the subscription to the proper corporate name, to wit "Las Vegas Television, Inc."

Respectfully submitted,

LAS VEGAS TELEVISION, INC.

By: /s/ Frederick G. Stoye Frederick G. Stoye

Subscribed and sworn to before me this 6th day of May, 1953

___/s/_Virginia S. Breen Virginia S. Breen Notary Public

My commission expires 4/14/54

SEAL

FELEVISION FACILITIES DIVISION BROADCAST BUREAU

Blund 57 M

3RD AMENDMENT TO BMPCT 1089

Las Vegas Television, Inc. herewith amends the above entitled application filed April 20, 1953 in the following particular:

l. Corrects the geographical coordinates to show transmitter site as North latitude 36° 07' 49" and West longitude as 115° 09' 52".

Respectfully submitted,
LAS VEGAS TELEVISION INC.

By;

Treasurer

Subscribed and sworn to before this 12th day of May, 1953

/s/ Virginia S. Breen

Notary Public

My Commission Expires April 14, 1954

SEAL

ENGINEERS COPY

BMPCT-1089

KLAS-TV

AMENDMENT TO BEPCT - 1089

Las Vegas Television, Inc., herewith amends the above entitled application filed April 20, 1955 in the following particulars:

1. Amends answer to paragraph 3B

(Section V-C) from "General

Electric....2Y-28-F" to "General

Electric....2Y-28-F".

General Electric Antenna Type

TY-28-F* rather than "RCA Antenna

Type TF-SAH/SA1".

Respectfully submitted.

LAS VEGAS TELECASTERS, INC.

By Judent & Stope Secretary-Treasurer

Subscribed and sworn to before me this 24th day of

Motary fublic

My Comunication Expires Oct. 15, 1955

REPORT

SION, INC.

3MPCT-1089

KLAS-TV

APR 201:53

ENGINEERING REPORT

LAS VEGAS TELEVISION, INC.

PROPOSED SITE CHANGE AND

ANTENNA MODIFICATIONS

March, 1953

CRANT R. WRATHALL Radio Engineer Aptos, California

Las Yegas Television, Inc. Proposed Site Change and Antenna Modifications

Exhibits

I	Topo map showing site and surroundir other radio stations, profile radial	
I-A	Consideration of nearby radio static	XD8
II	Topo map and profile directions	
III	Profiles	
IV	Grand A and Grade B signal contours	
168 J	Shoets A and B - Pictures taken at	ite
VI	CAA approach chart showing site, et	
AII	Vertical plan sketch of TV tower	

KLAS-TV

Broadcast Application	FEDE	CRAL COMMUNI	CATIONS COMMIS	SSION		Section V-C
TELEVISION BROADCAST . ENGINEERING DATA	i i	e of applican	Television	n, Inc.	31	nPCT-1089
1. Purpose of authorization applied	for: (Indica	te by check m	ark)			
(If application is for a new stat change F is of a character which feet, answer all paragraphs, othe through I, complete only paragraphs	will change co rwise complete	overage or inc only paragra	rease the overal phs 2 and 3 and	l height of the a the appropriate o	ntenna structure ther paragraphs;	more than 20 for changes G
A. Construct a new station		1	F. Change ante	nna system		
B. Change effective radiated power antenna height above average t			Change tran			
C. Thange transmitter location	orrann -	1	Install aum main transm	ciliary or alterna mitter	ate	
D. Change frequency			I. Other chang	res (specify)		
E. Approval of site and antenna			J. Change stud	•		
D 13111						
2. Facilities requested Frequency	(Manual)		4. Transmitt	ers		
r i equeitch	Channel 1	HUIDEF	(a) Visual Make		Type No.	Rated power
1 190 - 196		8	1	Electric	TT-6-E	In dbk: 6.99
180 — 186	Mc.					In low: 5.0
	enna height ab	~	(b) Aural			
	rain in feet. h height given		Make		Type No.	Rated power
In cook: 14.74 of	this Section)		General	Electric	TT-6-E	In dbk: 3.98
In kw: 27.9 3. (a) Antenna structure		190	Te the character			In kw: 2.5 ypes for which data
the immediate vicinity or does it serve to modify the construction of station, FM broadcast station, telev or other class of radio station? If No. I complete engineering data twill proposed structure be constructed on the top of an existing structure? If "Yes", describe and give height above	ision broadcas "Yes", attach hereon.	t station, as Exhibit I-A No	makes and type stages, full d ter (if used), changes are t matic diagram (c) Describe determining an	s of tubes, opera etails of frequen multiplex networ o be made in a li	ting constants of control, vest was and isolatic censed transmitt ails of the charmens which are output of the	rigial sideband fil- n networks. If er, include a sche- ges. On file FC n will be used for
Overall height in feet above ground. (Do not include the	Overall heig		5. Modulatio	n monitors		
height of any obstruction light-	not include	ea level. (Do the height of	(a) Visual m	onitor or monit <u>or</u>	ing equipment	Time No
ing which may be required.)	which may be	ion lighting required.)	General			Type No.
287'3"	235913	3"	(b) Aural mo Make	nitor		Type No.
Height of antenna radiation center i		ean sea level.	General 6. Frequency	monitors		GR-1183-T2
(b) Antenna data			(a) Visual m	OHITOP	Type No.	Accuracy
Visual Make	Туре	No.	General		1183-12	.001\$
General Electric	2 T -2	28 -y	(b) Aural mo Make		Type No. CR	Accuracy
Number of sections	Power ga	in in db	General		1183-T2	.001%
6	Approx	E. 8.1	approved by	ove momitors or m the F.C.C., inclu scription of each	de as Exhibit No	ent have not been a brief
Aural (if separate) Same as				ion line proposed		
Make	Type N	ю.	from the tra (a) Visual			
Number of sections	Power ga	ain in db		Co., Inc.	Type No.	Description 51.5 ohm concentric
Is directional antenna proposed?	Yes	No I		nal inside trans- nsions) in inches	Length in feet	Power loss in db for this length
If "Yes", attach as Fxhibit No. complete engineering data thereon.			3	1/8"	260'	0.5

Broadcast Appli	cation		TELEVI	SION BROADCA	ST ENGINEERING DATA		Section V-C, Page 2		
		timed Sema			r				
8. Transmission line (Continued) Same as pix (b) Aural (if separate)					10. Will the studios,		Yes 🗶 No		
Make	oparaw)	Type No. Description			and other equipment proposed for trans- mission of programs be designed for com-				
		*JF= 1404			pliance with the Comm				
Size (nominal	inside	Length in	Power 1	oss in db for					
transverse din		feet	this le		11. (a) Attach as Exhi	bit No. II a map(s)	(topographic where		
inches					•	. S. Oeological Survey			
						les of the proposed tr	anamitter location	120	
9. Proposed of	eration				1	n the following data:		11.2	
(a) Visual			- T		•	mitter location—accur			
Trænsmitter po (after vestigi		Multiplexer lo		out to trans- sion line in	•	cation and call letter (except amateur) and			
band filter, i		m ub;	linte	dbk:	A A	al and government rece			
In dbk: 6.9	9	0.05	1	C 01:	I B.	of the proposed trans	_		
In kw: 5.0		0.05		6.94	-	ion of main studio;	of proposed		
Transmission	Antenna in	put Antenna po	ower Eff	ective radi-	•	he area within 2 miles cation, suitably desig			
line power	power in d		_	d power		ess, industrial, and r			
loss in db:			_	31. 311.	_	radials each extendin	-		
0.5	6.44	8.	1. 1	dbk: 14.54		miles from the propos			
			In	kw: 27.9		or more of which must city or cities to be s			
(b) Aural		<u>-</u>	,			Exhibit I			
Transmitter po	ower output	Multiplexer los		out to trans-			-		
	_	in db:	mis	ssion line in	(b) Attach as Exh	ibit No. III profi	le graphs with		
In dbk: 3	.98			dbk:	reasonably large scale	es for the radials in	(a) (5) above.		
In low: 2	•5	0.05		3.93	Each graph shall show	the elevation of the fy each graph by its b	antenna radi-		
					proposed transmitter	ly each graph by its b location. Direction o	f true north		
Transmission line power	Antenna in power in d		1 .	ective radi-	shall be zero azimuth	, with angles measured	clockwise.		
loss in db:	ponor in a	Sam m o	J. att	d power	Show source of topogra	aphical data on each.			
			In	dbk: 11.53					
0.5	3.43	8.1	1	kw: 14.2				<i>:</i> :	
-					<u> </u>	•			
12. From the pr	rofile graph ance with th	s in 11(b), for	the eight	mile distance	between two and ten mil n's Rules, supply the fo	es from the proposed t	ransmitter location,	., .	
Grade B conto	rs are those	e in the absence	of inter	ference.)	r e vorces, subbit one 10	TTOWING PROMISE TOU OF	uava: (Made A and		
Radial	Attano	ge elevation	Heinht	in feet of	Effective ra-	Predicted	Predicted		
bearing	of re	dial (2-10 mi.)	antenn	a radiation	diated power	distance in	distance in		
(degrees tru		et above mean		above aver- evation of	in radial direction	miles to the	miles to the		
	' sea l	.eve1		(2-10 mi.)	d 11ect 10ff	Grade A 7ldb	Grade B 56db		
_		2006			9 h. #1.			1000000111	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		2095 feet		46 feet	14.54 dbk	14.5 mi.	31.0 mi.	****	
45		845		96	14.54	21.5	41.0		
90		L800		41	14.54	22.0	42.0		
135		L931		10 -	14.54	19.5	39.0		
180		5505		39 -	14.54	11.0	25.0		
225		2470	-]	29 ~	14.54	11.0*	23.0*		
270		2542	+2	01 _	14.54	11.0*	20.0*		
315		2352	-	114	14.54	11.0*	18.0*		
		5 4, 62) T	1	P # 17 1					
		7 % V	715		₩ ₽	mated by pract	topl amplusts	on of	
						ain and line o			
Antenna height	above avera	ge terrain	190	feet (Mist	be identical with Paragr			tions	
					- I I I I I I I I I I I I I I I I I I I	—————————————————————————————————————			
13. Attach as	Exhibit No.	IV map(s) (5	Sectional	Aeronautical	14. Attach as Exhibit	No. V a sufficie	nt number of aerial		
charts where	obtainable,	preferably witho	ut aerona	utical over-	photographs taken in	clear weather at appr	opriate altitudes		
	rea propose	d to be served a	and shown	drawn thereon:		he nature of the surro		90. T	
Lay) of the a	lay) of the area proposed to be served and shown drawn thereon:					proposed transmitter s	ite. The photo-		
() =		ton location of	46-		1		n dimontions There-		
(a) Propos	sed transmit	ter location and			graphs must be marke	ed so as to show compas		· . · #	
(a) Propos which	sed transmit the profile	graphs have bee	n prepare	d;	graphs must be marke graphs taken in eigh position on the grou		from an elevated	14 12 2	
(a) Propos which	sed transmit the profile		n prepare	d;	graphs must be marke graphs taken in eigh position on the grou	ed so as to show compas at different directions and will be acceptable of the area can be clea	from an elevated in lieu of the	1.1 12 2.1 2.1	

(c) Scale of miles.

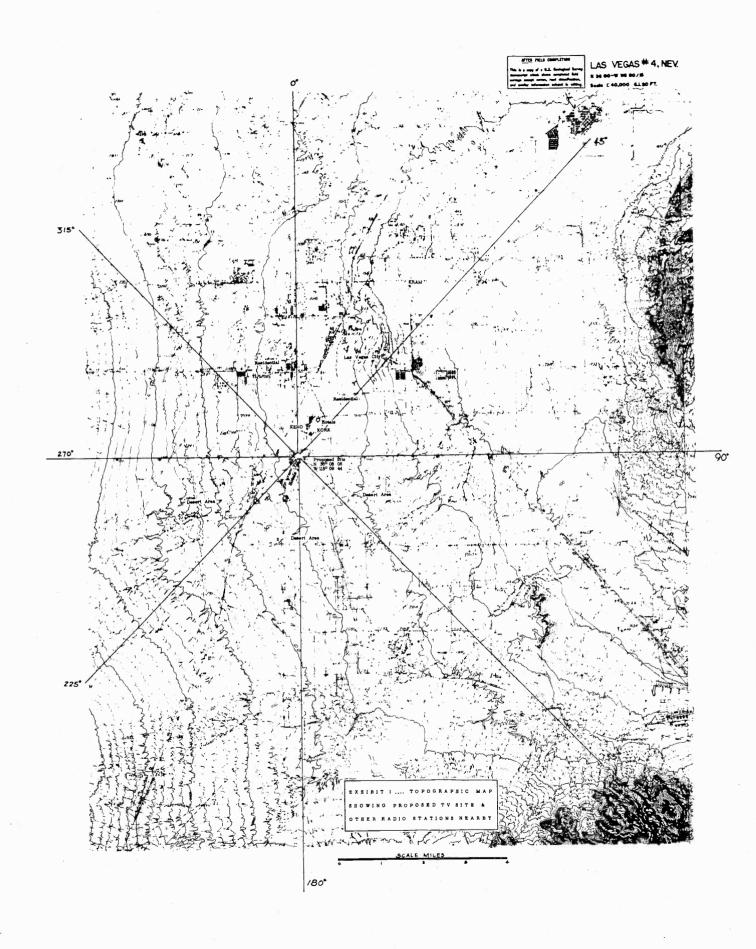
Sheets A and B

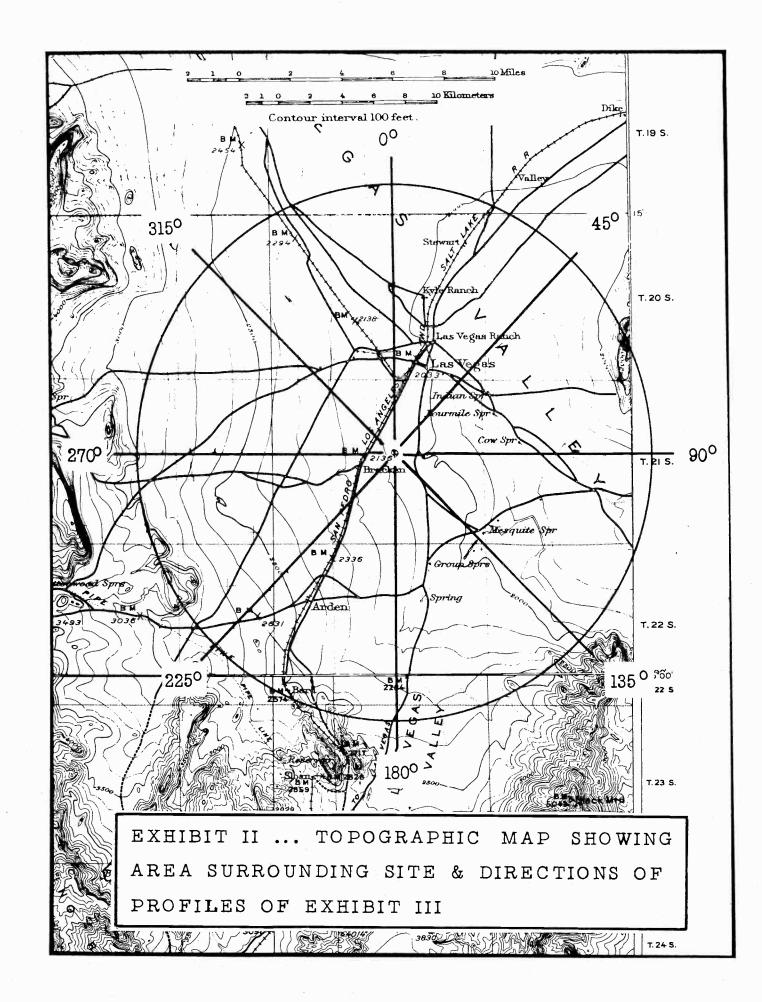
Broadcast Application	TO DUTCE OF	Proupa de la companya	
Proposed location of transfi State	nitter	BROADCAST ENGINEERING DATA	Section V-C, Pa
Nevada	County	Geographical coordinates (to be the proposed TV antenna struct	
City or town 1 M1. S Las Vegas city limits-Rwy 91	Street address Wilbur Clark's	North latitude	
Cut was a	Desert Inn	36° 08' 06'	West longitude
etermined? From E	Enibit No. I - 1/40	0,000 advance U. S. top	o sheet of area.
Proposed location of main state	County Same as trans	mitter site	
Warned .		Other studios proposed	
Nevada	Clark	None at prese	ent
- A more I Office	Street address,if known.		
ty limits-Hvy 91	Desert Inn		
organ will be provided over the	end strength in dbu, predicted the entire city in which the ma		cribed in the Commission's Ru
(a) Does the proposed transmit		ninimum separation requirements of th	
Commission's Rules?		minimum separation requirements of th	ne
(b) If any co-channel separati	ons are proposed that are less	s than the applicable minimum separates than the applicable minimum separates than the applicable minimum separates than the applicable minimum separates.	Yes 🔀 No
	Non	posed stations and assignments; the he proposed transmitter location; an	word instruct used in each
		-	v
·			
County of Santa	Oruz)		
	jes		
State of Califor	nia)		
Subscribed to an	d sworn to before m	ne this 51st day of Marc	oh, 1953.
Notary			
My Commission Ex	pires		
certify that Tomata			·
rom which the information cont	ained herein has been cottained	or Consulting Engineer of the radio statement of technical information and ted provided the Engineer's original is attached hereto.)	station for which this appli- i that it is true to the signed report of the data
the March 31, 19	13 (/M	Rur X. SYrall	lace
	Technica.	1 Director, Chief Engineer or Consul	ting Engineer

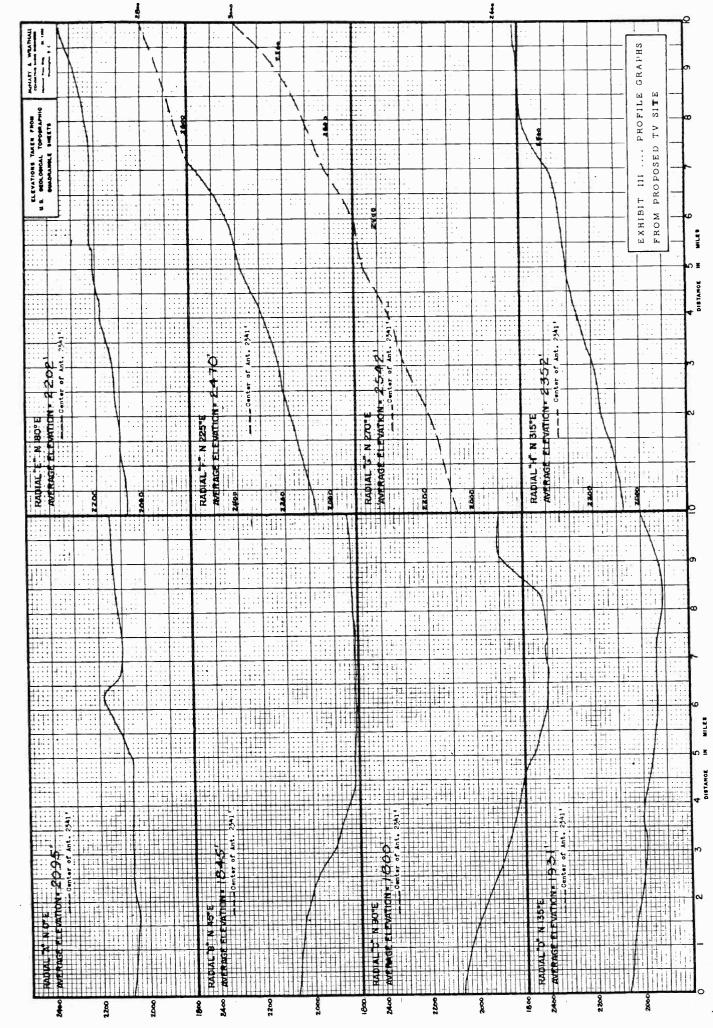
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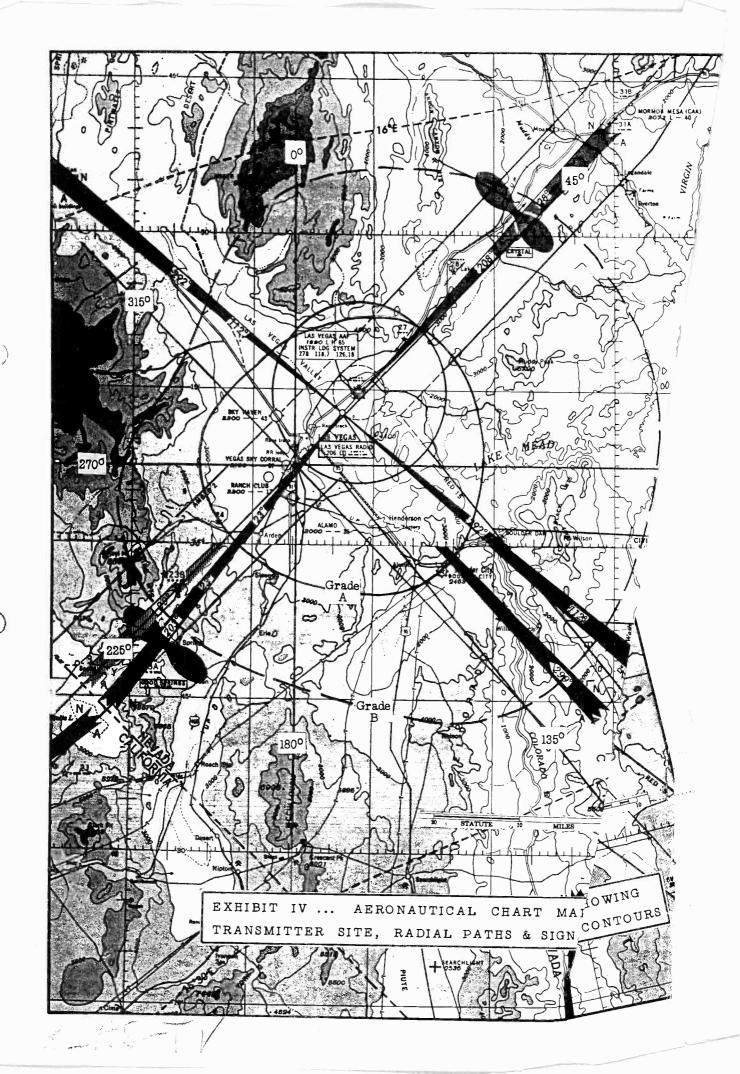
	FEDERAL COMMUNIC	CATIONS COMM	ISSION		Section V-G	(Antenna)
deast Application	!ame of applica	nt				
ANTENNA AND SITE INFORMATION	Las Vegas	Televisi	on, Inc.			
(see instruction B	Address where a	prlicant can b	e reached in	person		
Section I) this Section is submitted to the Regional Airspa	Las Vegas	MOASOF		ance in communition e	with obstructions	to air
e this Section is submitted to the Regional Airspa gation, it is necessary that all the data called f	or be supplied. Previousl					
a) Commsel	$\epsilon \mathcal{M}^{\omega}$	Purpose of a	pplication (Ch	eck appropriate bo	x)	
McKenna and Wilkin 1028 Connecticut A		a. New ante	nna constructi	on antenna structure		
Vashington, D. C.	111.8.2931	_lc. Change i	n location			
sulting Engineer	- 1, x	2 Postures	of surmanding	terrain	mode at nurtures	(hills.
Grant R. Wrathall			a tombo tourne	s or existing man- , etc.) which, in	THE OPTITION OF	mas capper
ress		hornt would	tend to shield	the antenna from and of the antenna.	and and on	ereoy mmu-
Aptos, California		I mize the aei	CONTROL IN	44 02 0.2		
ss of station Facilities req		TOWN (and KORK	towers in	same are	3.
TV Channe	1 0				_	
Location of anterma	or Town	1				
	M1. SW					
evada Clark	Les Yegas	Submit as	Exhibit No.	I a chart on whisite, and also	ich is plotted	the exact
ct antenna location (street address) (If e distance and direction from, and name	of nearest town)			and/or the exist		
orth side Wilbur Clark's	Desert Inn	listed abo	ve.	on Instrument A	innmach Chart	(or the
.0 Mi. 8W city limits on	Hwy 91	landing ch	art on revers	se side thereoi),	ity of the ant	enna site 1
graphic coordinates (to be determined to	nearest second.	should be	used only wh	en the antenna s. when an Inst.nam	ant Approach Cl	part is un-
directional anterma give coordinates of	center of array.	obtainable	e. 1/ These	charts may be pr	25. D. C.	
r single vertical radiator give tower loomer latitude. West long		Coast and Geodetic Survey, Washington 25, D. C. 1/ Exception - Where the proposed anterma site is within the boundary of a landing area for which no Instrument Approach Chart is available, submit a self-made, large scale map showing anterma site, number(s) and existing man-made structures listed above.				
0 ' ''						
36 08 06 115	09 44	site, runw	ay(s) and exis	ting men-mede stru	ctures listen a	00ve
Designation, distance, and bearing to nearest established airway within 5 mi	.1es >0 1	- 023°	0.5 Mi.	East		
List all landing areas within 10 miles	of entenna site. Gi	ve distance a	nd direction	to the nearest h	oundary of eac	h landing
Jaming Alea	South	/3 \ Tam	Sky Co	rral = 1.0	Mi-West	
(a) McCarran - 2.8 M1 5 (b) Nellis - 10 Mi 1		(e) Sky	Haven	- 6.0	-M1+-NNW	
/ Third Damah at 4 Miles	ON					
5. Description of antenna system (If di	rectional, give spacin	ng and orienta	tion of tower	·s)·•		
o. head ipstend of the control of		LL Ladarda	a my tag	er on top		
8	teel tower wit	N DECATH	8 11 00 -			
Type IDECO Description of tower(s) Triangula	r			(D-1-1		
Self-supporting Yes	Guyed			Tubular (Pole)	T	// 0
Tower (height figures should not include	9 #1	#2	#3	#4	#5	#6
obstruction lighting)	3713**					
Height of radiating elements Overall height above ground	287'3"					
a 11 haight above mean see level	235013"		1	- Vaithar a	risting or nr	oposed) sub
Overall height above mean sea level If a combination of Standard, FM, or TV	operation is propose	d on the same	multi-element giving heigh	s of the element	s above ground	d and showi
mit as Exhibit No.	Clearly indicate if	any towers at	re existing.	Single wi	- building if	anul givin
* harm Origothation will busicily in look	plan sketch for the pr	oposed total a	structure (in ate existing	portions, noting	painting and	lighting.
Submit as Exhibit No. VITa vertical I		Carre La Time ICC				
Submit as Exhibit No. VIIa vertical I	en that obstruction	lights may be				No [
Submit as Exhibit No. VIIa vertical pheights above ground in feet for all since the proposed enterms system designed	so that obstruction	lights may be			Yes 🛨	
Submit as Exhibit No. VII a vertical pheights above ground in feet for all sine installed and maintained at the upperminate of the company of	d so that obstruction ost point(s)?	lights may be			Yes 🛖	
Submit as Exhibit No. YIIa vertical pheights above ground in feet for all siles the proposed antenna system designed installed and maintained at the uppermits the proposed site the same or imadjoining the transmitter—antenna adjoining the transmitter and adj	d so that obstruction ost point(s)? mediately site of other	lights may be	Date		Yes 🛖	
Submit as Exhibit No. VII a vertical pheights above ground in feet for all siles the proposed enterna system designed installed and maintained at the uppermediate of the proposed site the same or imadjoining the transmitter—antenna stations authorized by the Commission fied in another application pending	d so that obstruction ost point(s)? mediately site of other	lights may be		March	yes 5 31, 1953	hall
Submit as Exhibit No. VIIa vertical pheights above ground in feet for all siles the proposed antenna system designed installed and maintained at the upperm. 6. Is the proposed site the same or imadjoining the transmitter—antenna adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the transmitter adjoining the adjoining the adjoining the adjoining the adjoining the adjoining the adjoining the ad	d so that obstruction ost point(s)? mediately site of other	lights may be	Date	March	Yes 🛖	hall

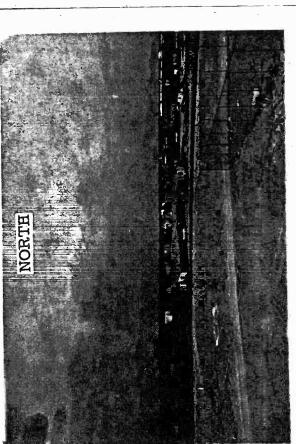






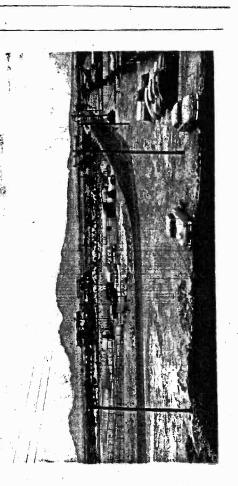
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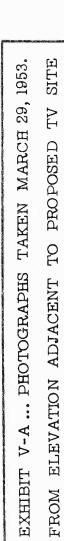




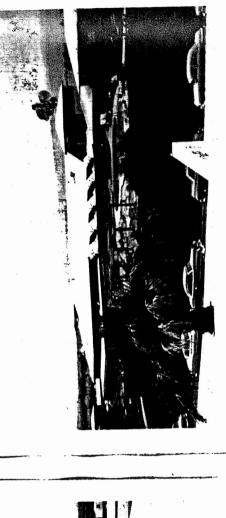
NORTHEAST

SOUTHEAST





SOUTHWEST



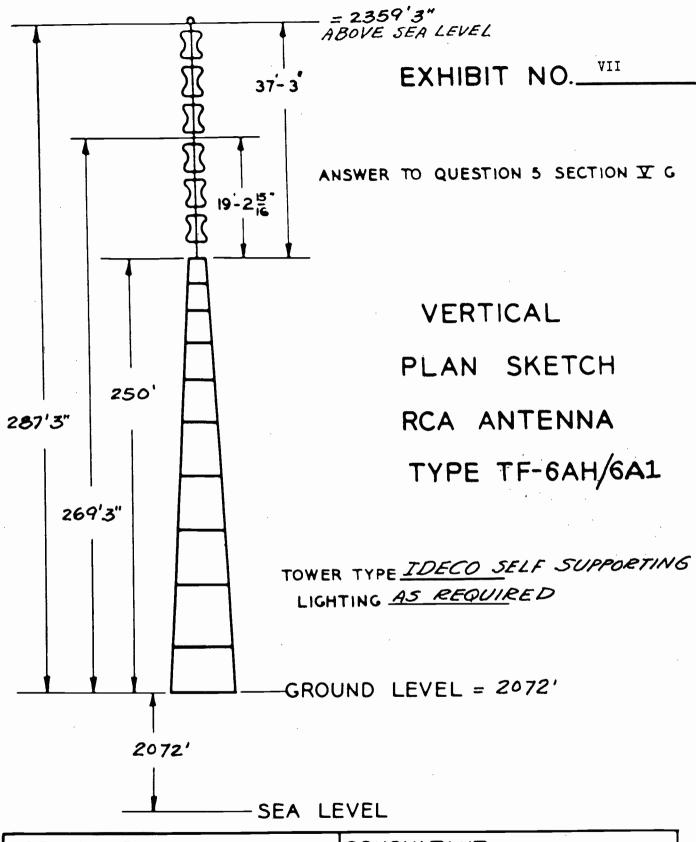
NORTHWEST

WEST



EXHIBIT V-B ... PHOTOGRAPHS TAKEN MARCH 29, 1953. FROM ELEVATION ADJACENT TO PROPOSED TV SITE

MICCANNAIT FILLE



APPLICANT Las Vegas Television, Inc. CONSULTANT Grant R. Wrathall Aptos, California

APR ZO 1:53

Waiver of Rule 3.613

The main studio of Station KLAS is located in the Desert Inn., one of the more fashionable hotels of Las Vegas. The Desert Inn is located exactly 1.0 miles from the present city limits of Las Vegas on U.S. Highway 91, four-lane arterial highway connecting Las Vegas and Los Angeles. The City of Las Vegas has long outgrown its official limits and many of the more fashionable hotels and business establishments are now located on U.S. Highway 91 outside the technical boundaries of the city. In fact, U.S. Highway 91 (South Fifth Street) is the main street of the town, buildings are numbered, and mail to such establishments is addressed to Las Vegas.

Tentative arrangements have been concluded with the Desert Inn which proposes to construct and lease television studios to Las Vegas Television, Inc. at 3003 South Fifth Street, Las Vegas, Nevada. These studios would be within five minutes of down-town Las Vegas, on a four-lane paved highway, with ample parking facilities. City bus service from Las Vegas and North Las Vegas serve this point every 20 minutes. In the instant M.P. application, authority is also requested to change the transmitter site to the Desert Inn. A waiver of Rule 3.613 is requested to permit combined studio and transmitter operations. Since some of the operating personnel of KLAS-TV will continue their duties with KLAS (also located in the Desert Inn), considerable economy of operation can be effected by granting the requested waiver of Rule 3.613.

Proposed Site as Related to Other Nearby Radio Operations

As is shown on Exhibit I, radio stations KENO and KORK operate from sites approximately 0.5 miles north of the proposed TV site herein being considered. KORK operates non-directional and no interaction from the TV tower structure is expected. KENO operates on 1460 KC with a night directional antenna. At 1460 KC the 0.5-mile separation is approximately 4.0 wavelengths and the 287-foot TV antenna near 0.42 wavelengths. TV antenna will have a base impedance near 133-j90 at 1460 KC. Because of the 4.0 wavelengths spacing and the relatively high base impedance, any interaction with the KERO antenna system is not expected. However, to eliminate any complications, Las Vegas Television, Inc., will make tests to assure full protection to KENO before the TV tower construction is started. The tests contemplated are simple but conclusive. During the hours when KENO is operating directional, a balloon will raise a grounded wire at the proposed TV site to a height near that proposed for the TV tower. KENO directional monitor points will be checked before and when the grounded wire is supported by the balloon.

If the tests indicate there might be interference problems to KENO, the TV tower will be constructed with base insulators and the transmission line insulated from the tower from ground to a point approximately 0.25 wavelengths at 1460 KC. With such an installation any KENO interaction can be eliminated with a suitable inductor at the tower base without side of the inductor grounded.

APR 1 7 1958 8320

Mr. R. T. Warner 539 Birch Street Boulder City, Nevada KLAS

Dear Mr. Warner:

This is in reply to your letter of March 20, 1953, in which you express concern that Las Vegas Television, Inc. may request a change of transmitter site for KLAS-TV which might provide inadequate reception in Boulder City.

The Commission has not received an application from ELAS-TV for a change in transmitter site, however, your letter will be associated with the file of that station.

Very truly yours,

T. J. Slowie Secretary

JPB:coc/tv:B

ANNUED BY
APRIL 71953

MAIL & FILES

April 24, 1953

8320

KLAS

Boulder City Chamber of Commerce Boulder City, Herada

Gentlamen:

This is in reply to your telegram of March 26, 1953, in which you request that Les Vegas Television, Inc. be required to construct their tower and transmitter at the same location specified in their construction permit, and that no change in site be approved without a public hearing.

The Commission has not received an application from KIAS-TV for a change in transmitter site; however, your telegram and a potition from residents of Boulder City will be associated with the file of that station.

Very truly yours,

T. J. Slowie Secretary

GWE :bod/tv:B

SIGNED BY ABOVE
MAILED BY

APR 2 4 1953

MAIL & FILES

ENGINEERS COP'

BPCT-1239

JUL 14 1952

ENGINEERING REPORT

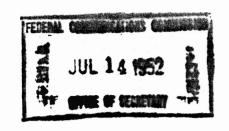
PROPOSED TV OPERATION

LAS VEGAS BROADCASTING COMPANY

KLAS-TV - LAS VEGAS, NEVADA

July, 1952

GRANT R. WRATHALL Consulting Radio Engineer Aptos, California



Index of Contents KLAS-TY - Les Yegas, Revada Engineering Report

Sections V-C and V-G, PCC Form 301 - 4 sheets

Exhibit No.	Description
I	Determining and Maintaining Power in Transmitters
II	Description of Visual Modulation Monitor
III	Topographic Maps (3 sheets - A, B and C)
IA	Profile Graphs Eight Radials (3 sheets - A, B and C)
•	Map Showing Computed Field Intensity Contours
AI	Asrial Photograph and Pictures of Site (3 sheets - A, B and C)
AII	CAA Chart Showing Site Location
IIK	Vertical Plan Sketch Antenna Structure