ORDINANCE NO. 10335 JUL 7 1970 (New Series)

AN ORDINANCE OF THE CITY OF SAN DIEGO PRESCRIBING RULES, REGULATIONS AND STANDARDS OF SERVICE QUALITY FOR COMMUNITY ANTENNA TELEVISION SYSTEMS OPERATING IN THE CITY OF SAN DIEGO AND INCORPORATING THE SAME IN THE SAN DIEGO MUNICIPAL CODE AS DIVISION 1 OF ARTICLE 3 OF CHAPTER VII.

WHEREAS, the Council of The City of San Diego is, in the public interest, desirous of assuring the best possible community antenna television, consistent with the state of the art, for the residents of the City of San Diego; and

WHEREAS, the Council of The City of San Diego is, in the public interest, desirous that such service be consistent with the business health of community antenna television system grantees and television broadcasters in the City of San Diego; and

WHEREAS, the Council of The City of San Diego desires to prescribe reasonable rules, regulations and standards of quality of community antenna television systems in the City of San Diego; NOW, THEREFORE,

BE IT ORDAINED, by the Council of The City of San Diego as follows:

Section 1. That the following be incorporated in the San Diego Municipal Code as Division 1 of Article 3 of Chapter VII and that all community antenna television systems granted a franchise by the City shall comply with and adhere to the rules, regulations and standards of service quality contained therein:

ARTICLE 3

DIVISION 1

CATV OPERATING RULES AND REGULATIONS SEC. 73.0101 CITATION OF ORDINANCE

This division may be cited as the San Diego CATV

Rules and Regulations Ordinance.

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SEC. 73.0102 RULES OF CONSTRUCTION

This division shall be construed liberally in order to effectuate its purposes. Unless otherwise specifically prescribed in this division the following provisions shall govern its interpretation and construction:

- (a) When not inconsistent with the context, words used in the present tense include the future, words in the plural number include the singular number, and words in the singular number include the plural number.
- (b) Time is of the essence in this division.

 No franchise holder or owner shall be relieved of his obligation to comply promptly with any provision of this article by any failure of City to enforce prompt compliance with any of its provisions.
- (c) Any right or power conferred, or duty imposed upon any officer, employee, department or board of City is subject to transfer by operation of law to any other officer, employee, department or board of City.
- (d) No franchise holder or owner shall have any recourse whatsoever against City for any loss, cost, expense or damage arising out of any provision or requirement of this division or the enforcement thereof.
- (e) This division does not relieve any franchise holder or owner of any requirement of the City

 Charter or of any ordinance, rule, regulation or specification of City.

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SEC. 73.0103 PURPOSE AND INTENT

The purpose and intent of this division is to assure that residents of the City of San Diego who subscribe to the service of a community antenna television system which has been granted a franchise by the City shall receive television signals without degradation within the limitations imposed by the state of the art.

SEC. 73.0104 DEFINITIONS

Whenever used in this divi

Whenever used in this division the following words or phrases are used they shall mean:

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- (a) "City" shall mean The City of San Diego, a municipal corporation in the State of California.
- (b) "Council" shall mean the City Council of City.
- (c) "City Manager" shall mean the City Manager of City as that office is defined in Section 27 of the City Charter and any officer or employee of City appointed by the City Manager to act for him.
- referred to in this article as CATV system, shall mean any facility which receives directly or indirectly over the air or otherwise and amplifies or otherwise modifies the signals transmitting programs broadcast by one or more television or FM radio stations and distributes such signals by wire or cable or other restricted radiation point-to-point means to subscribing members of the public who pay for such service, but such term shall not include any such facility which

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serves only the residents of one or more apartment dwellings under common ownership, control,
or management and commercial establishments
located on the premises of such an apartment
house.

- (e) "FCC" shall mean the Federal Communications Commission.
- (f) "Franchise" shall mean the right and authority granted by an ordinance of City to construct, maintain and operate through use of public streets, or other public rights of way or public places in City.
- (g) "Grantee" shall mean the person to whom the franchise is granted by an ordinance of City and any lawful successor or assignee of the original grantee.
- (h) "Local Station" shall mean a television broadcaster maintaining its main studio in City or operating a transmitter in City or within 10 miles of City's limits.
- (i) "Subscriber" shall mean any person or entity receiving for any purpose the CATV service of grantee.
- (j) Technical abbreviations shall have the meanings as described in "The Institute of Electrical and Electronics Engineers, Standard No. 198, Radio-Electronic Terms, abbreviations of."
 - (k) Technical Definitions.
 - (1) "Signal Level, or Visual Carrier Level." The root-mean-square voltage of a

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radio frequency carrier wave, modulated with FCC standard composite TV signal, measured during the synchronizing interval.

- (2) "dBmV." The unit of signal or noise level referred to one millivolt across 75 ohms. (OdBmV equals 1000 microvolts across 75 ohms.)
- (3) "Noise Level." The root-mean-square voltage of the thermal noise signal in the absence of carrier, measured in 4.0MHz band width, at 70 degrees F. in dBmV.
- (4) "Signal (or carrier) to noise ratio."

 The difference in dBmV between signal level and noise level on the same channel.
- (5) "Cross-Modulation." The transfer of modulation from one channel to another.
- (6) "Hum Modulation Ratio." The ratio between one half the peak-to-peak ripple at 60 or 120 Hz on an otherwise unmodulated carrier, and to the average carrier level.
- (7) "Spurious Signals." Any discreet frequency occurring within the channel boundaries which is not a desired carrier, subcarrier, or sideband.

SEC. 73.0105 GENERAL REQUIREMENTS

- (a) <u>Carriage of Local Stations</u>. All local stations carried on a CATV system shall have as high a picture quality as any other station carried on the CATV system. However, a CATV franchise grantee shall not be required to upgrade the quality of the off the air signal received to comply with this section.
- (b) System Maps and Layout. The grantee shall have at all times up-to-date route maps of suitable

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scale showing all receiving pickup locations and the location of all amplifiers and trunk and distribution lines. Lines to individual outlets need not be shown. The scale of the maps shall be sufficient to clearly show the required details, and in no event less than 1 inch = 400 feet.

- shall be installed and maintained in accordance with standard good engineering practices and shall conform when applicable with the National Electrical Safety Code, Bureau of Standards Handbook No. 130, Rules for Overhead Line Construction (General Order No. 95) of the California Public Utilities Commission, the California Administrative Code, Title 24, Part 3, and the City of San Diego Municipal Code.
- (d) Grounding. Trunk, distribution, and customer drops shall be properly grounded, but in no case less than the first and every tenth pole plus each power location. Each ground shall consist of a minimum of 8' ground rod connected with No. 8 bare copper wire, or equivalent.
- (e) <u>Power Supply r. f. Attenuation</u>. Each cable powering point shall be equipped with appropriate lightning protective devices, and shall provide not less than 40 db r. f. attenuation over the frequency range of 20 to 230 MHz.
- (f) Shielding. Shielding shall be such as to restrict radiation as prescribed in Part 15, Subpart D of the FCC Rules and Regulations.

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SEC. 73.0106 TEST DATA REQUIRED

- (a) Head-End. Upon completion of construction, or within sixty days from the date of adoption of this article, the following performance data shall be collected at the head-end, using appropriate test signals consistent with the state of the art inserted at the antenna input terminals, and measured at the interface between the single channel equipment output and the channel combining networks. Tower mounted transmission lines, filters, preamplifiers and UHF/VHF converters are excluded from the following tests; however, where possible, transmitted vertical interval test signals should be observed to indicate whether excluded tower equipment substantially meets performance standards.
 - (1) Carrier to noise.
 - (2) Multiburst frequency response.
 - (3) Differential phase.
 - (4) Differential gain.
 - (5) Magnitude and frequency of spurious signals.
- (b) Extension of Time. Upon receipt of an application in writing from the franchise holder the City Manager may extend the period within which the test data required by Section 6(a) of this article shall be collected for an additional period which is, in the sole discretion of the City Manager, reasonable and necessary except that in no event shall such extension of time exceed six months.
- (c) Trunk Monitor Check Points. The franchisee shall designate trunk monitor points strategically located in the distribution plant. The total number

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of trunk route miles divided by the number of designated monitor check points shall not exceed 20. Such monitor check points shall be subject to approval by the City Manager.

The following data shall be collected and recorded at each trunk monitor check point no fewer than once per month:

- (1) Visual and aural carrier levels on all channels.
- (2) Carrier to noise ratio on all channels (measured without interrupting service).
- (3) Visual inspection of pictures on all channels for visible beats, cross-modulation, or defects attributable to head-end distortion.
- (d) <u>Trunk Monitor Checks</u>. Upon completion of construction, or within sixty days from the date of adoption of this article, the following data shall be collected and recorded for each designated trunk monitor check point:
 - (1) Aural and video carrier levels on all channels.
 - (2) Noise levels measured on each channel with terminated channel inputs, with all other channels operating normally.
 - (3) Carrier to noise ratios measured without terminating channels (for comparison with readings made in response to complaints).
 - (4) Cross-modulation measured as prescribed in Section 8(c) of this article.
 - (5) Hum modulation ratio measured on unmodulated carrier.
- (e) Extension of Time. Upon receipt of an application in writing from the franchise holder the City

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Manager may extend the period within which the test data required by Section 6(a) of this article shall be collected for an additional period which is, in the sole discretion of the City Manager, reasonable and necessary except that in no event shall such extension of time exceed six months.

- (f) Repetition of Tests. If the City Manager deems it necessary to assure distribution of TV signals without material degradation, he may, from time to time, request a franchise grantee to repeat part or all of the performance tests specified above, as appropriate.
- (g) Retention of Test Data. All performance test results, as well as complaint reports hereinafter specified shall be kept on file by the franchisee for a period of at least twelve months. All such files shall be open for inspection at reasonable times by City Manager.

SEC. 73.0107 PERFORMANCE STANDARDS

- (a) Signal level at the 75 ohm service drop termination at any customer's TV set on any channel shall not be less than OdBmV or more than +26 dBmV.
- (b) Carrier to thermal noise ratio on any channel, overall with the antenna input point terminated, shall be no less than 34 dB (4MHz bandwidth) at any location.
- (c) Cross modulation ratio on any channel shall not exceed -46dB (0.5%) at any location for an ambient temperature of 32° Farenheit or above. The generation of spurious signals, particularly cross-modulation products and radio frequency harmonics, shall be maintained at as low a level as the state of the

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art permits. There shall be no visible crossmodulation products produced on any channel carried by the CATV system.

(d) Multiburst frequency response of single channel equipment (at head-end) shall conform with Sec. 73.687(a) of the Rules of the Federal Communications Commission, as follows:

White Level	O dB Reference
0.5 MHz	+0, -2 dB
1.5 MHz	+0, -2 dB
3.0 MHz	+0, -2 dB
3.2 MHz	+0, -2 dB
3.58 MHz	+0, -2 dB
4.1 MHz	+0, -2 dB
4.18 MHz	+0, -6 dB*
4.2 MHz	No Specification

- * Not more than 4 dB below the level of the 3.58 MHz burst.
- (e) Because there is no FCC tolerance on transfer linearity, single channel equipment should be adjusted for the best practicable performance. In no case, however, shall system differential phase exceed 5°, nor shall differential gain exceed 2 dB.
- (f) Spurious frequencies in any channel shall be attenuated at least 46 dB below visual carrier level as defined in Section 4, paragraph (k), unless it can be shown that a particular spurious frequency at higher level is not perceptible on a commercial TV set.
- (g) Incidental radiation shall conform with FCC specifications, Part 15, Subpart D.
- (h) Hum modulation shall be no more than 3% at any location.

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- response of the distribution system shall fall within ±3 db from 54 MHz to 108 MHz and from 174 MHz to 216 MHz and shall provide a response within each 6 MHz channel which is uniform within ±1 db throughout the channel. Equipment shall be employed to compensate for varying signal levels and environmental temperature conditions which influence cable attenuation.
- blanking bars, shall not be visible on a thoroughly shielded test receiver connected to any service drop. Ghosts, ringing, or reflections of any sort shall be either eliminated or minimized, subject to the limitations imposed by the technical state of the art. The design, construction, and operation of the entire Cable TV system from antenna to service drops and baluns shall be such as to minimize all such reflections.

SEC. 73.0108 MEASUREMENT METHODS

- (a) Signal level measurements shall be made with a properly adjusted and calibrated selective R.F. voltmeter, or signal level meter.
- (b) Noise levels shall be measured in accordance with NCTA-005-C.
- (c) When deemed necessary by the City Manager cross modulation shall be measured as follows:

Method I. A block diagram of the setup for this test is on file in the office of the City Clerk as Document No. 732466 . Normal picture and sound input signals (including FM signals where carried) are supplied to each channel to be carried except the channel under observation; a CW signal is supplied to the viewing



channel at white level. No cross-modulation products

("windshield-wiper" effects) should be visible on a

monitor receiver located at an appropriate test drop, at
an ambient temperature of 32° Farenheit or above.

- (d) Spurious signals may be detected and identified with a spectrum analyzer or other suitable instruments.

 SEC. 73.0109 COMPLAINT PROCEDURES
- (a) The grantee shall keep a record of all complaints from subscribers. The record shall identify the subscriber and his address, the location and date of the complaint, and a technician's report on the disposition of the complaint including the following items, as applicable:
 - 1. Carrier levels at the service drop terminal.
 - 2. Carrier levels and carrier to noise ratio at the customer's receiving outlet.

 (Note: since interruption of service to other customers must be avoided, it is recognized these noise measurements may not be entirely accurate.)
 - 3. If the complaint is caused by defects in customer's TV set, including inadequate shielding or grounding, explain.
 - 4. If the complaint involves direct pick-up describe tests to determine whether there is leakage into the cable system.
 - 5. Make and model and effectiveness of the antenna switch installed, if any.
 - 6. If the complaint involves visible crosshatch or herringbone interference, describe fully,

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including probable causes and corrective steps. (Note: such interference may also be present on signals received directly without cable.)

- 7. Visual check for cross-modulation (without interrupting service to customers).
- Check for problems originating at the head-end.
- Other relevant remarks, including 9. corrective action taken.
- (b) Upon request of the City Manager, grantee shall, within ten (10) days after receiving such request, send a written report to Manager with respect to any complaint. Such report shall provide a full explanation of the investigation, findings and corrective steps taken. When the complaint concerns technical performance such report shall include the items in subsection (a) of Section 9, as applicable. SEC. 73.0110 CONSTITUTIONALITY

If any section, subsection, sentence, clause or phrase of this article is for any reason held to be invalid, such decision shall not affect the validity of the remaining portions of this article. The Council hereby declares that it would have adopted the article and each section, subsection, sentence, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared invalid.

Section 2. This ordinance shall take effect and be in force on the thirtieth day from and after its passage.

APPROVED:

JOHN W. WITT, City Attorney

Clifton E.

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APR 27 1978

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Passed and adopted by the Council of T	The City of San	Diego on	JU	L 7 1970	
Councilmen Helen Cobb Sam T. Loftin Henry L. Landt Leon L. Williams Floyd L. Morrow Bob Martinet Allen Hitch Mike Schaefer Mayor Frank Curran	Yeas	Nays	Excused	Absent	~
AUTHENTICATED BY:		Mayor of	FRANK CU	·	nia,
(Scal)	 Ву		JOHN LOCK of The City of S	San Diego, Cali	
I HEREBY CERTIFY that the foreg					lar days had
JUN 23 1970	, and on	JUL 7 1970			
I FURTHER CERTIFY that said on I FURTHER CERTIFY that the re less than a majority of the members elect of each member of the Council and the said ordinance.	eading of said or cted to the Coun	dinance in fo	ull was dispens there was avai	sed with by a lable for the c	onsideration
(Seal)			JOHN LOCK k of The City of	San Diego, Cal	
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Office of the City Clerk, San Diego, California

Ordinance Number ...

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ATTORNEY (5)

• CITY OF SAN DIEGO Community Concourse San Diego, California 92101

CERTIFICATE OF PUBLICATION

No.

AN ORDINANCE OF THE CITY OF SAN DIEGO PRESCRIBING RULES, REGULATIONS AND STANDARDS OF SERVICE QUALITY FOR COMMUNITY ANTENNA TELEVISION SYSTEMS OPERATING IN THE CITY OF SAN DIEGO AND INCORPORATING THE SAME IN THE SAN DIEGO MUNICIPAL CODE AS DIVISION 1 OF ARTICLE 3 OF CHAPTER VII.

1970 JUL 21 PM 12: 57
SAN DIEGO, CALIF.

I, Patricia M. Applestill hereby certify that The Daily Transcript is a daily newspaper of general circulation within the provisions of the Government Code of the State of California, printed and published in the City of San Diego, County of San Diego, State of California; that I am the principal clerk of the printer of said newspaper; that the

ORDINANCE NO. 10335 (NEW SERIES)

to a true and correct copy of which this certificate is annexed was published in said newspaper on

July 16, 1970

I certify under penalty of perjury that the foregoing is true and correct, at San Diego, California,

on July 16, 1970

(Signature)

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ORDINANCE NO. 10335

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ARTICLE 3

DIVISION 1

CATV OPERATING RULES AND REGULATION OF ORDLANCE

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(4) "Signal (or carrier) to noise ratio." The difference in dBmV between signal level and noise level on the same channel.

(5) "Cross-Modulation." The transfer of modulation." The transfer of modulation from one channel to another.

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The ratio between one half the peak-to-peak ripple at 60 or 120 Hz on an otherwise unmodulated carrier, and to the average carrier level.

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SEC. 73.0105 GENERAL REQUIRE-MENTS

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(c) System Construct

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SEC. 73.0106 TEST DATA REQUIRED

(a) Head-End. Upon completion of construction, or within sixty days from the date of adoption of this article, the following performance data shall be collected at the head-end, using appropriate test signals consistent with the state of the art inserted at the antenna input terminals, and measured at the interface between the single channel equipment output and the channel combining networks. Tower mounted transmission lines, filters, preamplifiers and UHF/VHF converters are excluded from the following tests; however, where possible, transmitted vertical intertal test signals should be observed to indicate whether excluded tower equipment substantially meets performance standards.

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(4) Differential gain.
(5) Magnitude and frequency of spurious signals.
(b) Extension of Time. Upon receipt of an application in writing from the franchise holder the City Manager may extend the period within which the test data required by Section 6(a) of this article shall be collected for an additional period which is, in the sole discretion of the City Manager, Leasonable and necessary except that in no event shall such extension of time exceed six months.

(c) Trunk Monitor Check Points. The franchisee shall designate trunk monitor points strategically located in the distribution plant. The total number of trunk route miles divided by the number of designated monitor check points shall be subject to approval by the City Manager.

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The following data shall be collected and recorded at each trunk
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(1) Visual and aural carrier
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of the performance test specified
above, as appropriate.

(g) Retention of Tests, If the City
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complaint reports hereinafter specified shall be kept on file by the
franchisee for a period of at least
twelve months. All such files shall be
open for inspection at reasonable
times by City Manager.

SEC. 73.0107 PERFORMANCE
STANDARDS

(a) Signal level at the 75

llows:	
White Level	O dB Reference
0.5 MHz	+0, -2 dB
1.5 MHz	+0, -2 dB
3.0 MHz	+0, -2 dB
3.2 MHz	+0, -2 dB
3.58 MHz	+0, •2 dB
4.1 MHz	-i-0, -2 dB
4.18 MHz	+0, -6 dB*
4.2 MHz	+0, -6 dB• No Specification
Not more than	4 dB below the

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(e) Because there is no FCC tolerance on transfer linearity, single channel equipment should be adjusted for the best practicable performance. In no case, however, shall system differential phase exceed 5°, nor shall differential gain exceed 2 dB.

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METHODS

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Method I A block disease in the of the origin of the City Creek as Decument

(d) Sporter again the be decore and Beather with a crum analyser or other suitable instruments

Section his ordinance skill take affect and be in force on the thirdship and after its Benefit

of The City of San Diego at July

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(BEAL)

