ENGINEERING EXHIBIT

ABC HOLDING COMPANY, INC.
TELEVISION STATION KABC-TV, FACILITY ID 282
DTV MAXIMIZATION APPLICATION
MODIFICATION OF CONSTRUCTION PERMIT
CHANNEL 7 – 28.7 KW DA MAX(DTV AVERAGE) – 978 METERS HAAT

LOS ANGELES, CALIFORNIA

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ENGINEERING STATEMENT

Introduction

ABC Holding Company, Inc. (KABC) is the licensee of KABC-TV, Los Angeles, California. KABC is licensed to operate NTSC analog facilities on channel 7 with an effective radiated power of 141 KW at a height above average terrain of 978 meters. FCC File Number BLCT-19840619KF describes the KABC-TV analog channel 7 facilities. This license describes the facilities that were used as the basis for DTV replication facilities.

KABC-TV began broadcasting in September of 1949 and has been serving Los Angeles and nearby communities on channel 7 continuously since that time.

In the Seventh Report and Order, KABC was assigned a DTV Allotment on Channel 7. This allotment specified a directional antenna which bears Antenna ID 74603. This HAAT is identical to the HAAT of the main NTSC antenna.

KABC-DT was one of several ABC Owned TV Stations that committed to initiating DTV operation in November of 1998. KABC was able to meet that commitment, and has been continuously broadcasting Digital Television on channel 53 since November 1, 1998. The DTV Construction Permit, FCC File Number BPCDT-19980430KE, and the subsequent license file number BLCDT-199981112KF describe the presently licensed KABC-DT facilities which operate on channel 53.

On April 17, 2008, the Commission granted KABC a post-transition construction permit, BPCDT-20080326AJJ, which specifies operation on channel 7 with the presently licensed channel 7 NTSC antenna, which bears antenna ID 85687.

On December 9, 2008, the Commission granted KABC a modified post-transition permit, BMPCDT-20080626AAL, which specifies operation on channel 7 with an ERP of 25.0 KW utilizing the present channel 7 antenna, with a newly assigned Antenna ID, 88014. KABC has completed construction of the facilities described in the outstanding construction permit, BMPCDT-20080626AAL, and intends to file an application for license for post-transition operation after successful commencement of program tests, which are presently scheduled to begin no later than June 13, 2009.

Through this application, KABC seeks to maximize its facilities, changing only the ERP to 28.7 kilowatts. All other operating parameters, including heights, antenna manufacturer and model are identical to those specified in the outstanding post-transition construction permit.

The interference analysis contained in this engineering exhibit was calculated with 2 km cells.

This application is a maximization application. It is filed under provisions of Section 73.622(f)(5), and respectfully requests a waiver of the requirement that limits maximization to not exceed the coverage area of the largest station within the market.

With the exception of the coverage area limit described in Section 73.622(f)(5), this application fully meets all applicable rules and policies the Commission as applied to the processing of DTV applications. The facility described in this application does not generate interference in excess of 0.5 percent.

Section 73.622(f)(5) states, in part, "Licensees and permittees assigned a DTV channel in the initial DTV Table of Allotments may request an increase in either ERP in some azimuthal direction or antenna HAAT, or both, that exceed the initial technical facilities specified for the allotment… …up to the maximum permissible limits on DTV power and antenna height set forth in paragraph (f)(6), (f)(7), or (f)(8) of this section, as appropriate, or up to that needed to provide the same geographic coverage area as the largest station within their market, whichever would allow the largest service area. Such requests must be accompanied by a technical showing that the increase complies with the technical criteria in Section 73.623(c), and thereby will not result in new interference exceeding the de minimis standard set forth in that section… "

Through this application, KABC-DT seeks a maximized post-transition construction permit to specify 28.7 KW ERP Max. Although 28.7 KW is greater than the maximum permitted for an HAAT of 928 meters by Section 73.622(f)(7), Section 73.622(f)(5) permits the maximum ERP at a given HAAT to be exceeded in order to provide the same geographic coverage area as the largest coverage area in the market. KABC respectfully requests a waiver of the coverage area constraint in Section 73.622(f)(5) in order to provide a stronger post-transition DTV signal to the population presently served.

The proposed ERP does not cause additional interference in excess of 0.45% to any station, thereby meeting the requirements of Section 73.616 and other sections of the Commission's rules stated above. In Television Zone II, 160 KW is the maximum ERP that is permitted by the Rules.

Licensed Facility

The KABC-TV license bears FCC File Number BLCT-19840619KF and specifies an ERP of 141 KW at 978 meters HAAT.

The presently licensed NTSC antenna is the same antenna that is specified in the outstanding post-transition construction permit. This antenna is supported by a tower which bears Antenna Structure Registration Number 1010346. The Harris six-bay cavity-backed circularly polarized antenna, Harris model number TAV-6H CPV, is described on page 2 of BLCT-19840619KF. This antenna bears FCC Antenna ID number 85687 in the initial post-transition construction permit, BPCDT-20080326AJJ and it bears FCC Antenna ID 88014 in the most recently modified construction permit, BMPCDT-20080626AAL.

The KABC-TV Main License Expiration Date

The KABC-TV Main License bears an expiration date of December 1, 2006. A timely application for renewal of the KABC licenses was filed with the Commission and bears FCC File number BRCT-20060810ANG and was accepted for filing on August 18, 2006. The pending license renewal application remains in accepted for filing status as of this writing. As such, the instant application is acceptable for filing pending a final determination by the Commission on the outstanding application for renewal of the KABC-TV main license.

Interference Calculation Methodology

The results of interference calculations that are contained in this engineering statement were obtained by Longley-Rice methods that are described in OET Bulletin 69, July 1997, as implemented in the Commission's software TV_Process with 2 KM cell size. The post-transition data that were used for these calculations include Appendix B facilities and subsequent post-transition applications of all affected stations. The population census data were obtained from the Year 2000 Census. This methodology and the associated Longley-Rice parameters and cell size are described in the Report and Order in the Third Periodic Review at Paragraph 155.

Protection to Post-Transition DTV Authorized Facilities and Allotments

Television channel 7 was tentatively designated for post-transition operation by KABC-DT during the channel election process. Channel 7 is shown in the DTV Table of Allotments of Section 73.622 of the Rules, and in Appendix B for use by KABC-DT, Facility ID number 282. The facilities associated with this allotment are also shown in Appendix B of the Seventh Report and Order, which was released August 6, 2007. The interference studies conducted and the results of those calculations that are shown in this statement are based on the facilities contained in Appendix B, and the post-transition database that is described above.

The designated facilities described in Appendix B that are associated with post-transition operation of KABC-DT contain a directional antenna pattern and a maximum ERP of 11.2 KW. The directional pattern, Antenna ID 74603 that is referenced in Appendix B bears FCC Antenna ID 19234. This antenna is a non-directional antenna without mechanical beam tilt. After consideration of mechanical beam tilt, the antenna becomes directional in the horizontal plane. The azimuth pattern of this antenna is shown in the figure that is labeled Exhibit 3. This antenna bears FCC Antenna ID number 88014 in the outstanding post-transition construction permit, BPCDT-20080626AAL.

Maximization Calculations

A study was conducted to determine what effective radiated power would cause no more than 0.5 percent additional interference to any allotment or application. The results of the study indicate that 28.7 KW ERP will increase the KABC-DT post-transition coverage area to 54210.8 square kilometers. The population served by the proposed facility is 15,922,369 persons. The figure that is labeled Exhibit 2 contains the results of these interference calculations for the proposed KABC maximized post-transition facility.

Operation with the antenna that is described in Appendix B with an ERP of 11.2 KW DA-Max and the 74603 antenna pattern, if such a pattern could be built, provides coverage to 15,562,000 persons, according to the results that are shown in Appendix B. A calculation to check the population served by the KABC-DT post-transition Appendix B facility produced a result of 15,562,021 persons, which is close agreement with the Commission's result. This lends some confidence that the calculations are being performed with reasonable accuracy and that the input data for Appendix B facilities is in close agreement with the Commission's input data.

Operation with 28.7 KW ERP and the presently licensed NTSC channel 7 antenna produces coverage of 15,922,369 persons after consideration of losses to terrain and interference from post-transition DTV facilities as found in Appendix B and recent post-transition applications as found in CDBS post-transition databases, according to TV_Process calculations.

The instant proposal, when operating with an ERP of 28.7 KW, serves a coverage area of 54,210.8 square kilometers. The outstanding post-transition DTV construction permit produces a calculated coverage area of 51,712.8 square kilometers. The KTLA facility when operating with parameters shown in Appendix B has a coverage area of 52854.0 square kilometers. The coverage area within the predicted noise limited contour is 54210.8 square kilometers, which exceeds the predicted coverage area of KTLA-DT by 2.6 percent.

The 25 KW outstanding construction permit, BMPCDT-20080626AAL, serves a population of 15,838,895 persons. The instant proposal, when operating with an ERP of 28.7 KW, serves a population of 15,922,369 persons, which is an increase of 0.53 percent over the outstanding modified construction permit.

Although relatively little population is gained, the instant proposal provides a stronger signal to the population in the Los Angeles metropolitan area, and early results from field testing and DTV operation indicates a stronger signal improves the ability of the public to receive a digital television signal. This increase in signal strength is accomplished without causing any impermissible interference.

Calculations made using the presently licensed NTSC analog antenna with 28.7 KW ERP shows no new interference in excess of 0.4507 percent is created to any affected station. This meets the Commission's post-transition interference criteria.

The instant application meets all FCC rules and policies, except the coverage area limit that is contained in Section 73.622(f)(5), and as to that particular limit, it is respectfully requested that the Commission waive the coverage area limit requirement embodied in Section 73.622(f)(5).

Distances to predicted 36 dBu F(50:90) noise limited contour and the 43 dBu required city coverage contour were calculated according to the methods that are contained in the Rules. A map showing the location of the contours for the proposed 28.7 KW operation is contained in the figure that is labeled Exhibit 1. This map clearly shows complete coverage of the city of license, Los Angeles, California, within the predicted 43 dBu F(50:90) contour.

Interference Calculations

The TV_Process calculations of new interference to other stations caused by the use of 28.7 KW ERP with the presently licensed 19234 KABC directional NTSC antenna in place of the Appendix B facilities for KABC identified five affected stations and show the following results:

7 KLAS-TV, Las Vegas, Nevada	Proposal Causes No Interference
7 KAIL, Fresno, California	Proposal Causes No Interference
8 KFMB-TV, San Diego, California	0.4507% Additional Interference
7 KASC-CA, Atascadero, CA	Proposal Causes No Interference
7 K07TA, Santa Maria, California	Proposal Causes No Interference

The only numerical results were reported in the interference calculation to KFMB, San Diego, CA. The results of TV Process calculations predict the proposed post-transition operation of KABC-DT will create 0.4507% additional interference.

Calculations were made toward the K07TA licensed facility, the facility described in the outstanding construction permit, and the facility described in the pending application with the same results, the KABC proposal causes no interference.

The results contained in the interference study satisfy the Commission's criteria for post-transition interference.

Protection to Class A Stations

There are two Class A TV stations that require study. The co-channel station K07TA, Construction Permit BMPTVA-20070508AAW and Licensed location BLTTV-19850701IB are approximately 208.4 kilometers and 222.6 kilometers distant respectively. The intervening terrain causes much higher signal losses than contour study methods would indicate.

Calculations made through use of the Commission's TV Process software included the Class A stations, but the analysis shows that no interference is created to these class A stations by the proposed operation of KABC-DT at 28.7 KW.

The Class A station K07TA location is described in Construction Permit BMPTVA-20070508AAW. The K07TA licensed location is described in the K07TA license file, BLTTV-19850701IB. In each case, the intervening terrain causes severe attenuation of KABC-DT channel 7 signals and no interference is predicted to occur. The azimuth angle from KABC-DT to the licensed location is 288.0 degrees and the azimuth angle to the construction permit location is 292.0 degrees.

The last Class A station that required study is KASC-CA, BLTVL-19990806JD. This station also operates on channel 7 (former call sign K07WA). This station is located at a greater distance than K07TA and in the same general direction, with a calculated azimuth of 300.0 degrees from the KABC-DT transmitter. As such, the signal path between the two sites traverses almost identical terrain as the K07TA example, but the path is longer – 277.6 kilometers to the KASC-CA site – as opposed to the shorter distances of 208.4 or 222.6 kilometers to K07TA.

Because of the severe intervening terrain between KABC-DT and the Class A stations studied, TV Process finds no interference to any Class A station is predicted.

Protection to Nearby AM Stations

There is no AM station within 3.2 kilometers of the KABC-TV site.

Protection to FCC Monitoring Stations and Radio Astronomy Installations

Section 73.1030 defines criteria by which FCC Monitoring Stations and other protected receiving facilities are protected from changes to their radio receiving environment.

The nearest FCC Monitoring Station is located in Livermore, California. It is located more than 510 KM from the KABC transmission system. The greatest study distance for transmission systems that operate in the 174 to 180 MHz range is 80 kilometers, per Section 73.1030(c)(3), and the distance to the monitoring station alone satisfies the requirements of Section 73.1030 to protect FCC Monitoring Stations.

The nearest protected receiving location is Table Mountain, Colorado. The great distance to the protected receiving location is sufficient to satisfy the requirement to protect this facility. This agrees with TV Process results which report the instant proposal needs no further consideration of protection to the Table Mountain receiving location.

Principal Community Coverage

Exhibit 1 is a map which depicts the 43 dBu F(50:90) contour and demonstrates that the entire City of Los Angeles, California is contained within this contour. This map also depicts the 36 dBu noise limited contour. This clearly demonstrates compliance with the requirement to cover the city of license with a 43 dBu F(50:90) contour as outlined in Section 73.625(a)(1) of the Commission's Rules.

Environmental Considerations

Introduction

The KABC transmitter facility is located at Building 15, Video Road, Mount Wilson, California. Mount Wilson is a unique location to serve the City of Los Angeles. Several towers are located in the immediate vicinity of the KABC-TV transmission system. In addition, more towers are distributed over the ridge that overlooks Los Angeles and the surrounding area. These towers support most of the television and FM radio stations that serve Los Angeles and other nearby cities. The KABC transmitter has used this site for most of its broadcasting history.

The proposed post-transition operation of KABC specifies use of the existing channel 7 antenna which is presently licensed and in NTSC service. Because an existing antenna is proposed for post-transition operation, there will be no construction required and there will be no physical impact to the environment from the proposed operation.

Compliance with Section 1.1307 and the Limits Contained in 1.1310

The last comprehensive study of the radiofrequency environment at the KABC transmitter was made as a part of the license renewal application and was prepared in July, 2006. The facilities included in the prior study were checked and found to be unchanged since the date of the study. The status of the various facilities near the KABC transmitter were verified by KABC engineering personnel on June 23, 2008 to be unchanged since the last study to measure human exposure to radiofrequency energy, which was completed in July, 2006. The results of that measurement program were used in their entirety as an indication of the present radiofrequency environment in and near the KABC transmitter facility.

Because DTV operations on NTSC channels specify operating power levels that are typically 10 dB or more below those of presently operating NTSC stations, and because NTSC operation will cease at the end of the transition, the results presented in this statement represent a maximum expected level of human exposure to radiofrequency energy at and near the KABC transmitter facilities.

ABC Holding Company, Inc, licensee of KABC-TV and KABC-DT, Los Angeles, California, authorized a comprehensive measurement program in order to assess compliance with the exposure limits as contained in Section 1.1310 of the Commission's Rules. These Survey Measurements were conducted on July 24, 25, and 26, 2006 in the uncontrolled areas of the Mount Wilson communications site, as directed by KABC-TV on behalf of KABC-TV, KABC-DT, and several other television broadcasters who operate transmitter facilities on Mount Wilson. This Survey was conducted at ground level and included those locations which are accessible to the general public. The data obtained in the ground level survey were obtained by the undersigned under the direction of Mr. Richard A. Tell, and these same data were supplied to Mr. Tell for his analysis. A letter report was supplied by Mr. Tell to the KABC-TV Vice President of Engineering on July 31, 2006. The results of the analysis in Mr. Tell's letter support a conclusion that after the data were analyzed, those areas that were located outside of locked, physically controlled areas, were found to comply with the FCC Maximum Permissible Exposure Limits as contained in Section 1.1310, and that most areas were compliant generally within a wide margin. A vast majority of the locations produced measurements which were in the range of 10 to 50 percent of the MPE for Uncontrolled locations. Additional detailed measurements were carried out at those areas which exhibited elevated spatial peak fields. The results of Mr. Tell's analysis indicate that the range of values for spatial averages of data which were taken four specific locations in Uncontrolled Areas ranged 57.4% to 79.6% of the MPE limit for Uncontrolled Areas.

Instrumentation and Measurements

The measurements described in this Statement were made with a broadband, isotropic, electric field probe, NARDA Model B8742D, serial number 03002 and a NARDA Model 8715 Digital RF Survey Meter, serial number 01028. Both the meter and probe were calibrated by the manufacturer less than 60 days prior to the measurement dates. Measurement results, a description of the measurement technique, and the limits of probe indications, as well as meter and probe calibration data and certificates are contained in Mr. Tell's Letter Report of July 2006, as well as a detailed description of the methods used to evaluate the data.

The KABC-TV Transmitter facility is located on Video Road in Building 15, Mount Wilson, California. The facility is entirely contained within a fence. No Trespassing signs as well as signs which warn the reader that elevated levels of radio frequency fields are found beyond the fence are placed to warn persons to keep out of the fenced area. In addition, a sign mounted on the fence bears the Structure Registration Number of the KABC-TV tower, 1010346. Also, signs are placed on the stairs which access the tower at stairway gate on the first landing level, which warn persons not to proceed beyond the locked gate at the first landing level during normal operation of the transmitter facility because fields which exceed the MPE for Uncontrolled and Controlled areas are found beyond that point. Additional signs on the perimeter fence contain the warning, "No Trespassing."

The KABC-TV NTSC antenna, which is the antenna proposed for post-transition DTV use, has a center of radiation of 137.5 meters above ground level. The KABC-DT channel 53 antenna has a center of radiation of 81.4 meters above ground level.

Measurements were made at ground level within the KABC-TV perimeter fence, specifically around the base of the tower and in the KABC-TV transmitter building. In this series of measurements the highest spatial peak observed outside the KABC-TV transmitter building but within the KABC-TV fenced area was found to be 57.2% of the MPE for Uncontrolled Areas. During the time these measurements were made, KLOS (FM) was operating from its auxiliary antenna which is much lower to ground level than the main antenna. It is believed that this condition produces the largest radio frequency exposure contribution at ground level from KLOS. The KLOS main antenna, which is a Harris Cavity-Backed Radiator design and minimizes downward radiation, is located at 112 meters above ground level. The KLOS Auxiliary antenna is a 'roto-tiller' design and was not designed to minimize downward radiation, but after reviewing the data from ground level measurements, it is believed that the lower ice shield on the KABC-TV tower provides some shielding of the KLOS signal. The KLOS auxiliary antenna center of radiation is located 49 meters above ground level. The KLOS main antenna is described in FCC File Number BLH-19840702KJ, and is located with a center of radiation of 112 meters above ground level. The KLOS auxiliary antenna is described in FCC File Number BMLH-19850523KJ. The KLOS main antenna was out of service at the time of the measurements to install a new feed system and associated coaxial transmission lines.

Additionally, measurements were made in the KABC-TV transmitter room, during operation of the transmitter that is located nearest to the entrance doorway. During this series of measurements a relative maximum value of 12.5% of the Uncontrolled MPE was found. This relative maximum value was found near the 7-way combiner for the visual transmitter cabinets of the transmitter in operation. The maximum spatial peak that was observed in the transmitter room was found directly opposite the visual and aural diplexer at the top of the transmitter cabinet. This maximum value was 13.1% of the FCC Limit for Uncontrolled Areas. In other areas, including the front and rear of each transmitter and all associated combiners, the vast majority of the readings were in the 5.6% to 7.5% range.

In the old transmitter room, a maximum of 12.5% of the MPE for Uncontrolled Areas was found between the wall and the new coaxial switching equipment. No other equipment is energized in this room, as the old transmitters found here have been de-commissioned. The range of readings which were taken elsewhere in the old transmitter room was 2.7% to 5.5% of the Uncontrolled Limit.

With all contributors operating as authorized, the results of Mr. Tell's analysis of measurement data taken by the undersigned indicate that the range of values for spatial averages of data which were taken four specific locations in Uncontrolled Areas ranged 57.4% to 79.6% of the MPE limit for Uncontrolled Areas. A majority of the measurements indicate that the power density at ground level to two meters above ground level usually was found to be between 10% to 50% of the Maximum Permitted Exposure limit for Uncontrolled Areas which is well within the limit contained in Section 1.1310 of the Rules for Uncontrolled Areas. As a result, the ground level area of the KABC Transmitter Site meets the requirements for an Uncontrolled Area.

Within the perimeter fence surrounding the KABC-TV transmitter building and outside of the transmitter building itself, the highest peak spatial value was found to be 57.2% of the MPE for Uncontrolled Areas.

Within the KABC-TV transmitter building, the maximum spatial peak value was 13.1% of the FCC Limit for Uncontrolled Areas. In other areas, including the front and rear of each transmitter and all associated combiners, the vast majority of the readings were in the 5.6% to 7.5% range, confirming that RF energy is being properly confined by coaxial transmission lines, transmitter cabinetry and RF components. As a result, the transmitter building meets the Commission's requirements for Uncontrolled Areas.

RF Exposure Safety Practices

For administrative and safety purposes, the entire KABC tower above the access stairway first landing level where a locked gate is located is treated as a Controlled Area. Only those who have been properly instructed with regard to RF Safety should be allowed beyond this point.

For administrative and safety purposes, the entire KABC tower is treated as a Controlled Area where only those who have been properly instructed in safe tower climbing practices or those who are experienced or qualified tower climbers and employed by recognized tower maintenance and construction organizations are allowed.

This analysis does not address safety issues while working aloft. These data and results are not intended to address occupational exposure issues that are associated with personnel while working in certain access controlled locations while aloft on towers. Considerations for persons working aloft are a part of a modified site RF Safety Program that is documented and is updated as required by changes in operating parameters of the broadcasting facilities on Mount Wilson.

The KABC-TV, KABC-DT and tenant station KLOS (FM) facilities as presently authorized meet the Commission's requirements as described in Section 1.1310 and Section 1.1307(b) of the Rules regarding human exposure to radiofrequency energy.

The KABC-TV and KABC-DT facilities as proposed and as presently authorized and operating, meet the Commission's requirements as described in the Rules, and as such, no Environmental Assessment is required for this location.

Conclusion

The proposed KABC-DT post-transition DTV operation meets the requirements of the Commission's Rules, including the interference provisions of Section 73.616 for post-transition operation. Except for the limits of service area as described in Section 73.622(f)(5) the instant proposal also meets the requirements of other sections of the rules that are cited in 73.622(f)(5), and does not exceed the maximum ERP that can be assigned to a DTV station in Television Zone II of 160 kilowatts. No additional interference greater than 0.5 percent is created by the instant proposal. With the exception of the coverage area limit that is described in Section 73.622(f)(5), the instant application in full compliance with the policies and rules of the Commission for post-transition operation. As to the coverage area limit in Section 73.622(f)(5), a waiver of this limit is respectfully requested.

No changes are necessary other than modification of the transmitting equipment inside the KABC transmitter room to fully implement the facilities proposed herein. This proposal will cause no change to the environment beyond the transmitter building and will also comply with the Commission's rules which limit human exposure to radiofrequency energy.

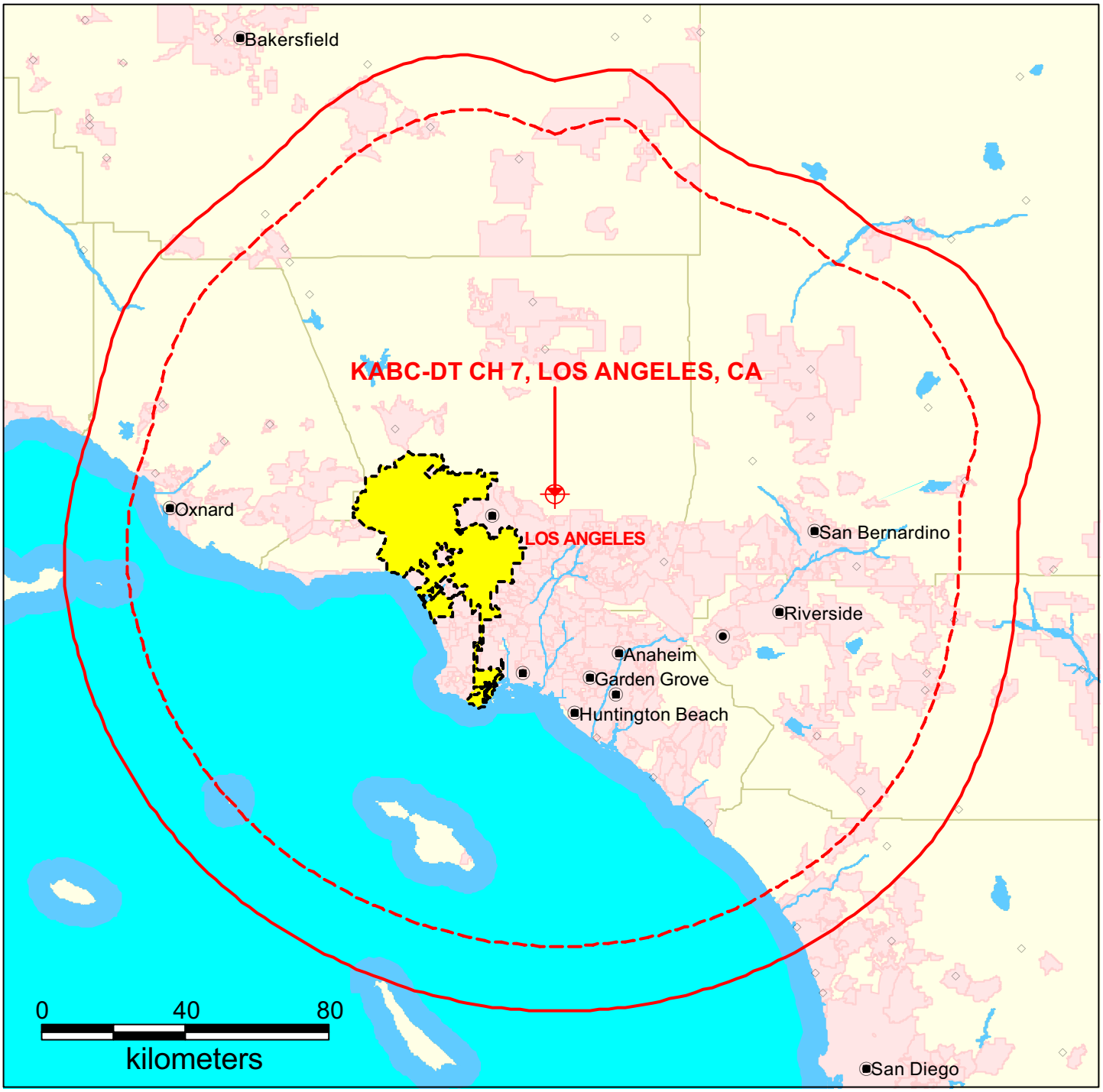
Certification

I certify that, on behalf of ABC Holding Company, Inc., licensee of KABC-TV and KABC-DT, the information in this statement was prepared by me or under my supervision with the assistance of Zar B. Aung, EIT. On behalf of ABC Holding Company, Inc., I have prepared and reviewed the information that is contained in this Statement, and that after such review and examination have found it to be accurate and true to the best of my knowledge and belief.

Signed: _____
Alfred E. Resnick, P. E.

Dated: March 27, 2009

EXHIBIT 1



PREDICTED COVERAGE CONTOURS

KABC-DT Ch 7, Los Angeles, CA
28.7 kW, 978 mHAAT
1876.5 mRCAMSL, 85687 D-ANT (HAR 19234)

Predicted Noise Limited Coverage Contour
F(50,90), 36 dBu

Predicted Principal Community Coverage Contour
F(50,90), 43 dBu

MARCH 2009

CARL T. JONES CORPORATION

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MODIFICATION OF CONSTRUCTION PERMIT
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LOS ANGELES, CALIFORNIA

EXHIBIT 2

Interference Calculation Results
in
TV Process Output Format

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-10-2009 Time: 16:24:01

Record Selected for Analysis

KABC-TV BDTV -NEWKABCDT7 LOS ANGELES CA US
Channel 07 ERP 28.70 kW HAAT 978.0 m RCAMSL 1876. m
Latitude 034-13-37 Longitude 0118-03-58
Status CP MOD Zone 2 Border M
Dir Antenna Make CDB Model 00000000085687 Beam tilt Y Ref Azimuth 0.0
Last update Cutoff date Docket
Comments
Applicant ABC HOLDING COMPANY, INC.

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits
Channel 7 ERP = 28.70 HAAT = 978.

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	28.700	465.2	114.1
45.0	28.700	445.3	112.5
90.0	28.700	704.3	127.1
135.0	27.995	1450.1	142.7
180.0	27.887	1571.8	144.2
225.0	27.924	1529.8	143.7
270.0	28.348	1067.4	135.4
315.0	28.700	657.2	125.3

SPACING VIOLATION FOUND BETWEEN STATION

KABC-TV 07 LOS ANGELES CA BDTV NEWKABCDT7

and station

SHORT TO: KABC-DT 07 LOS ANGELES CA DTVPLN DTVP1453
034-13-37 0118-03-58
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

SHORT TO: KABC-DT 07 LOS ANGELES CA DTVPLN DTVP1453
034-13-37 0118-03-58
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountian

Proposed facility is beyond the Canadian coordination distance

Proposed facility is within the Mexican coordination distance
Distance to border = 207.5km

Proposed station is OK toward AM broadcast stations

****

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN	
07	KABC-TV	LOS ANGELES CA	BDTV	NEWKABCDT7

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KLAS-TV	LAS VEGAS NV	334.8	CP	BPCDT	-20020418AAD
07	KAIL	FRESNO CA	339.5	LIC	BLCDT	-20021002ABH
08	KFMBTV	SAN DIEGO CA	171.9	LIC	BLCT	-2176
7	KASC-CA	ATASCADERO CA	277.1	LIC	BLTVL	-19990806JD
7	K07TA	SANTA MARIA CA	208.2	CP	BPTVA	-20031203ABM
7	K07TA	SANTA MARIA CA	208.3	APP	BMPTVA	-20070508AAW
7	K07TA	SANTA MARIA CA	222.6	LIC	BLTTV	-19850701IB
07	KLAS-TV	LAS VEGAS NV	334.8	CP	BPCDT	-20020418AAD
07	KAIL	FRESNO CA	339.5	LIC	BLCDT	-20021002ABH
08	KFMBTV	SAN DIEGO CA	171.9	LIC	BLCT	-2176

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KLAS-TV	LAS VEGAS NV	BPCDT	-20020418AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	411.6	LIC	BLCDT	-20021002ABH
07	KAZT-TV	PRESCOTT AZ	299.9	CP	BPCDT	-19991026ACO
07	KABC-TV	LOS ANGELES CA	334.8	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	334.8	PLN	DTVPLN	-DTVP1453
07	KAIL	FRESNO CA	411.6	LIC	BLCDT	-20021002ABH
07	KAZT-TV	PRESCOTT AZ	299.9	CP	BPCDT	-19991026ACO
07	KABC-TV	LOS ANGELES CA	334.8	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	334.8	PLN	DTVPLN	-DTVP1453

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KAIL	FRESNO CA	BLCDT	-20021002ABH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KRNV	RENO NV	252.4	LIC	BLCDT	-20040622ABF
07	KLAS-TV	LAS VEGAS NV	411.6	CP	BPCDT	-20020418AAD
07	KGO-TV	SAN FRANCISCO CA	277.2	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	339.5	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	339.5	PLN	DTVPLN	-DTVP1453
08	KSBW	SALINAS CA	187.3	CP	BFRCCT	-20050815ACD
07	KRNV	RENO NV	252.4	LIC	BLCDT	-20040622ABF
07	KLAS-TV	LAS VEGAS NV	411.6	CP	BPCDT	-20020418AAD
07	KGO-TV	SAN FRANCISCO CA	277.2	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	339.5	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	339.5	PLN	DTVPLN	-DTVP1453
08	KSBW	SALINAS CA	187.3	CP	BFRCCT	-20050815ACD

Proposal causes no interference

##

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KFMBTV	SAN DIEGO CA	BLCT -2176

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	KABC-TV	LOS ANGELES CA	171.9	CP MOD	BDTV -NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	171.9	PLN	DTVPLN -DTVP1453
09	KCAL-TV	LOS ANGELES CA	172.0	CP	BFRCCT -20050516ATK
09	KECY-TV	EL CENTRO CA	227.0	CP MOD	BMPCDT -20041028AFC
07	KABC-TV	LOS ANGELES CA	171.9	CP MOD	BDTV -NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	171.9	PLN	DTVPLN -DTVP1453

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 3

Before Analysis

Results for: 8A CA SAN DIEGO BLCT 2176 LIC

HAAT 226.0 m, ATV ERP 14.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3292714	26989.1
not affected by terrain losses	3092399	24523.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5381	8.0
lost to ATV IX only	5381	8.0
lost to all IX	5381	8.0

Potential Interferring Stations Included in above Scenario 1

9A CA LOS ANGELES	BFRCCT	20050516ATK	CP
7A CA LOS ANGELES	DTVPLN	DTVP1453	PLN

After Analysis

Results for: 8A CA SAN DIEGO BLCT 2176 LIC

HAAT 226.0 m, ATV ERP 14.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3292714	26989.1
not affected by terrain losses	3092399	24523.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	19293	32.1
lost to ATV IX only	19293	32.1
lost to all IX	19293	32.1

Potential Interferring Stations Included in above Scenario 1

9A CA LOS ANGELES	BFRCCT	20050516ATK	CP
7A CA LOS ANGELES	BDTV	NEWKABCDT7	CP

The following station failed the de minimis interference criteria.

7D CA LOS ANGELES BDTV NEWKABCDT7

ERP 28.70 kW HAAT 978.0 m RCAMSL 1876.0 m

Antenna CDB 00000000085687

Due to interference to the following station and scenario: 1

8D CA SAN DIEGO BLCT 2176

ERP 14.87 kW HAAT 226.0 m RCAMSL 309.0 m

Antenna CDB 00000000080224

Percent Service lost without proposal: 0.0 to BLCT 2176

Percent Service lost with proposal: 0.5 to BLCT 2176

##

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
7	KASC-CA	ATASCADERO CA	BLTVL	-19990806JD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	214.4	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	299.7	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	277.1	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	277.1	PLN	DTVPLN	-DTVP1453
07	KAIL	FRESNO CA	214.4	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	299.7	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	277.1	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	277.1	PLN	DTVPLN	-DTVP1453

Proposal causes no interference

##########

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
7	K07TA	SANTA MARIA CA	BPTVA	-20031203ABM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	249.8	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	375.8	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	208.2	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	208.2	PLN	DTVPLN	-DTVP1453
07	KAIL	FRESNO CA	249.8	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	375.8	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	208.2	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	208.2	PLN	DTVPLN	-DTVP1453

Proposal causes no interference

##########

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
7	K07TA	SANTA MARIA CA	BMPTVA	-20070508AAW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	249.8	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	375.7	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	208.3	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	208.3	PLN	DTVPLN	-DTVP1453
07	KAIL	FRESNO CA	249.8	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	375.7	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	208.3	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	208.3	PLN	DTVPLN	-DTVP1453

Proposal causes no interference

##########

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
7	K07TA	SANTA MARIA CA	BLTTV	-19850701IB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	263.1	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	373.8	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	222.6	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	222.6	PLN	DTVPLN	-DTVP1453
07	KAIL	FRESNO CA	263.1	LIC	BLCDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	373.8	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	222.6	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	222.6	PLN	DTVPLN	-DTVP1453

Proposal causes no interference

##########

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KLAS-TV	LAS VEGAS NV	BPCDT	-20020418AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	411.6	LIC	BLCDT	-20021002ABH
07	KAZT-TV	PRESCOTT AZ	299.9	CP	BPCDT	-19991026ACO
07	KABC-TV	LOS ANGELES CA	334.8	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	334.8	PLN	DTVPLN	-DTVP1453
07	KAIL	FRESNO CA	411.6	LIC	BLCDT	-20021002ABH
07	KAZT-TV	PRESCOTT AZ	299.9	CP	BPCDT	-19991026ACO
07	KABC-TV	LOS ANGELES CA	334.8	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	334.8	PLN	DTVPLN	-DTVP1453

Proposal causes no interference

##########

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KAIL	FRESNO CA	BLCDT	-20021002ABH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KRNV	RENO NV	252.4	LIC	BLCDT	-20040622ABF
07	KLAS-TV	LAS VEGAS NV	411.6	CP	BPCDT	-20020418AAD
07	KGO-TV	SAN FRANCISCO CA	277.2	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	339.5	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	339.5	PLN	DTVPLN	-DTVP1453
08	KSBW	SALINAS CA	187.3	CP	BFRCCT	-20050815ACD
07	KRNV	RENO NV	252.4	LIC	BLCDT	-20040622ABF
07	KLAS-TV	LAS VEGAS NV	411.6	CP	BPCDT	-20020418AAD
07	KGO-TV	SAN FRANCISCO CA	277.2	CP	BDTV	-0000
07	KABC-TV	LOS ANGELES CA	339.5	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	339.5	PLN	DTVPLN	-DTVP1453
08	KSBW	SALINAS CA	187.3	CP	BFRCCT	-20050815ACD

Proposal causes no interference

##########

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	KFMBTV	SAN DIEGO CA	BLCT	-2176

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KABC-TV	LOS ANGELES CA	171.9	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	171.9	PLN	DTVPLN	-DTVP1453
09	KCAL-TV	LOS ANGELES CA	172.0	CP	BFRCCT	-20050516ATK
09	KECY-TV	EL CENTRO CA	227.0	CP MOD	BMPCDT	-20041028AFC
07	KABC-TV	LOS ANGELES CA	171.9	CP MOD	BDTV	-NEWKABCDT7
07	KABC-DT	LOS ANGELES CA	171.9	PLN	DTVPLN	-DTVP1453

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 10
Before Analysis
Results for: 8A CA SAN DIEGO BLCT 2176 LIC
HAAT 226.0 m, ATV ERP 14.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3292714	26989.1
not affected by terrain losses	3092399	24523.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5381	8.0
lost to ATV IX only	5381	8.0
lost to all IX	5381	8.0

Potential Interferring Stations Included in above Scenario 1

9A CA LOS ANGELES	BFRCCT	20050516ATK	CP
7A CA LOS ANGELES	DTVPLN	DTVP1453	PLN

After Analysis
Results for: 8A CA SAN DIEGO BLCT 2176 LIC
HAAT 226.0 m, ATV ERP 14.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3292714	26989.1
not affected by terrain losses	3092399	24523.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	19293	32.1
lost to ATV IX only	19293	32.1
lost to all IX	19293	32.1

Potential Interferring Stations Included in above Scenario 1

9A CA LOS ANGELES	BFRCCT	20050516ATK	CP
7A CA LOS ANGELES	BDTV	NEWKABCDT7	CP

The following station failed the de minimis interference criteria.
7D CA LOS ANGELES BDTV NEWKABCDT7
ERP 28.70 kW HAAT 978.0 m RCAMSL 1876.0 m
Antenna CDB 00000000085687

Due to interference to the following station and scenario: 1
8D CA SAN DIEGO BLCT 2176
ERP 14.87 kW HAAT 226.0 m RCAMSL 309.0 m
Antenna CDB 00000000080224

Percent Service lost without proposal: 0.0 to BLCT 2176
Percent Service lost with proposal: 0.5 to BLCT 2176

##

Analysis of Interference to Affected Station 11

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
07	KABC-DT	LOS ANGELES CA	DTVPLN	-DTVP1453

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.

Results for: 7A CA LOS ANGELES DTVPLN DTVP1453 PLN
HAAT 978.0 m, ATV ERP 11.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	16047459	44291.7
not affected by terrain losses	15580908	37472.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KABC-TV	LOS ANGELES CA	BDTV	-NEWKABCDT7

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KLAS-TV	LAS VEGAS NV	334.8	CP	BPCDT	-20020418AAD
07	KAIL	FRESNO CA	339.5	LIC	BLCDT	-20021002ABH
08	KFMBTV	SAN DIEGO CA	171.9	LIC	BLCT	-2176
07	KLAS-TV	LAS VEGAS NV	334.8	CP	BPCDT	-20020418AAD
07	KAIL	FRESNO CA	339.5	LIC	BLCDT	-20021002ABH
08	KFMBTV	SAN DIEGO CA	171.9	LIC	BLCT	-2176

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 11
Before Analysis

Results for: 7A CA LOS ANGELES BDTV NEWKABCDT7 CP
HAAT 978.0 m, ATV ERP 28.7 kW

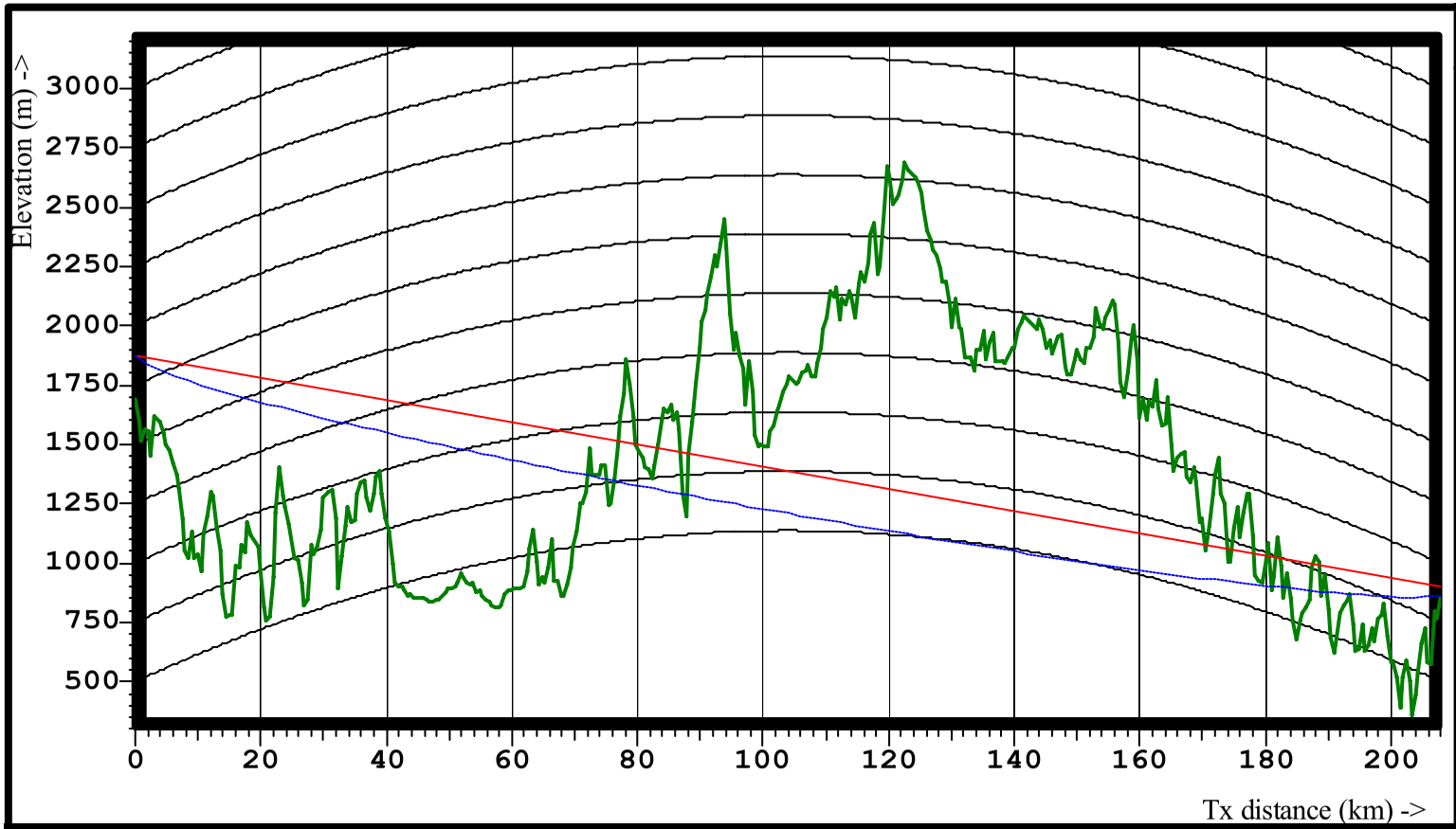
	POPULATION	AREA (sq km)
within Noise Limited Contour	16387308	54210.8
not affected by terrain losses	15988109	47250.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65740	584.3
lost to ATV IX only	65740	584.3
lost to all IX	65740	584.3

Potential Interferring Stations Included in above Scenario 1

7A NV LAS VEGAS	BPCDT	20020418AAD	CP
7A CA FRESNO	BLCDT	20021002ABH	LIC
8A CA SAN DIEGO	BLCT	2176	LIC
7A NV LAS VEGAS	BPCDT	20020418AAD	CP
7A CA FRESNO	BLCDT	20021002ABH	LIC
8A CA SAN DIEGO	BLCT	2176	LIC

##

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED



SIGNAL **Exhibit 3 , Page 1**

Prop. model: Longley-Rice v1.2.2
Time: 10.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Groundcover: None
Atm. factor: none
K factors: 1.333, 1.000, 1.000

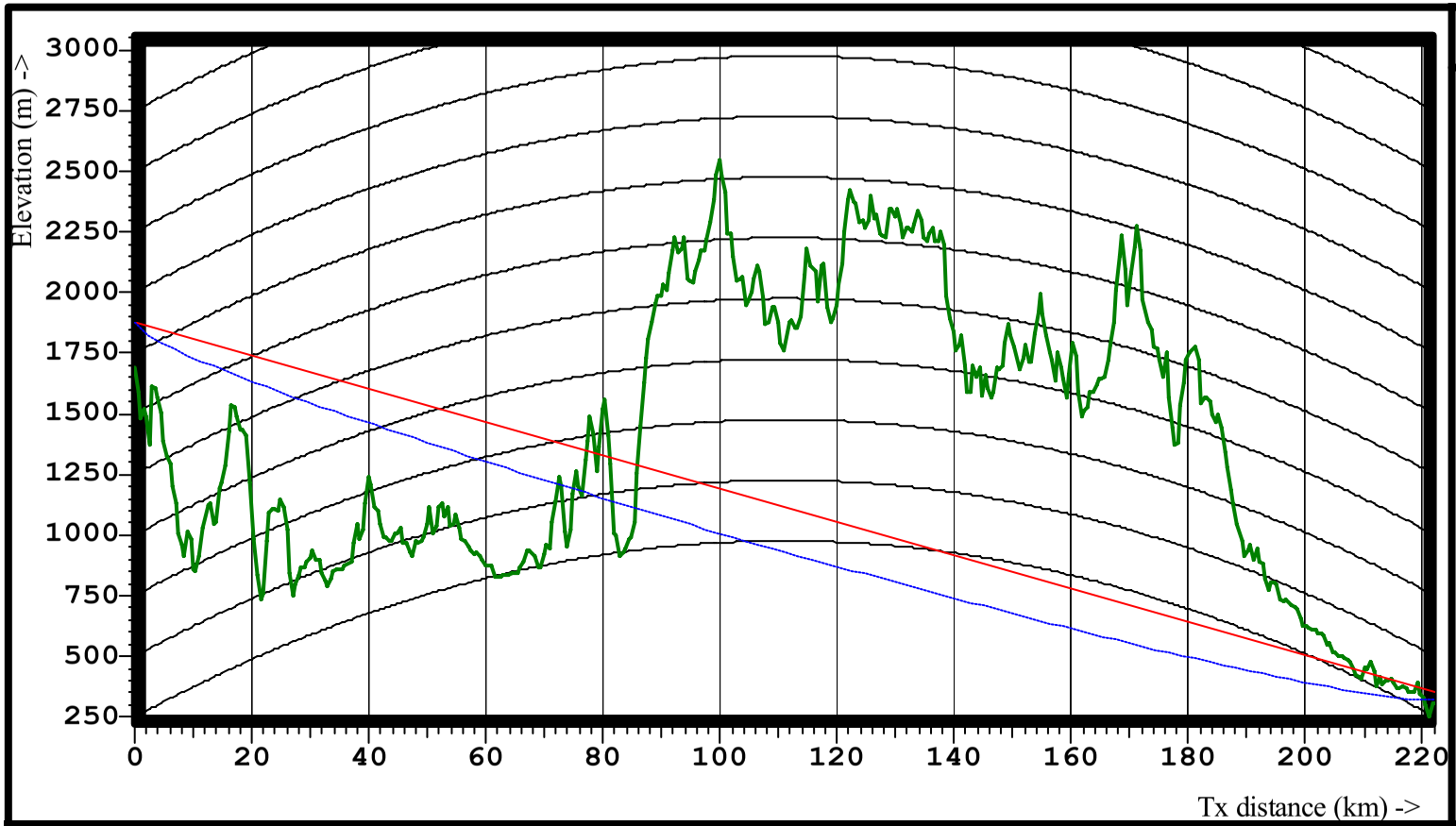
Reliability Analysis
Fade outage method:
Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
Adj. chan. interf.: -100.0 dBmW
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Div. type: unprotected 50.0 dB
Ant. spacing for diversity: 10.0 dB
Rain outage method: Crane
Rain region: A

Transmitter Site: KABC_TV
Name: KABC_TV
Location:
N34°13'37.00" W118°03'58.00"
Site elevation: 1689.5 m
Antenna height: 187.5 m
Pointing azimuth: 292.0 deg
Transmitter power: 71.49 dBm
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 10.00 dB
Antenna file:
Total ERP: 81.49 dBm

Name: KABC_TV -> K07TA
Frequency: 177.0000 MHz
Polarization: horizontal
Length: 208.38 km
Number of obstacles: 0
Excess path loss: 66.3 dB
Atm. absorption loss: 0.0 dB
Path loss for stats: 190.11 dB
Flat fade margin: -26.85 dB
Total fade margin: -26.85 dB
Annual fade outage: 31536000.00 s
Annual rain outage: 0.00 s
Link availability: 0.0000 %

Receiver Site: K07TA
Name: KO7TA_CP
Location:
N34°54'37.00" W120°11'09.00"
Site elevation: 887.8 m
Antenna height: 10.0 m
Pointing azimuth: 112.0 deg
Receiver threshold: -76.00 dBm
Trans. line loss: 1.19 dB
Other losses: 3.00 dB
Antenna gain: 10.00 dB
Antenna file:
Received signal level: -102.81 dBm

Notes
KABC to K07TA CP
Site to Site



Prop. model: Longley-Rice v1.2.2
Time: 10.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Groundcover: None
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method:
Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
Adj. chan. interf.: -100.0 dBmW
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Div. type: unprotected 50.0 dB
Ant. spacing for diversity: 10.0 dB
Rain outage method: Crane
Rain region: A

Transmitter Site: KABC_TV
Name: KABC_TV
Location:
N34°13'37.00" W118°03'58.00"
Site elevation: 1689.5 m
Antenna height: 187.5 m
Pointing azimuth: 288.3 deg
Transmitter power: 71.49 dBm
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 10.00 dB
Antenna file:
Total ERP: 81.49 dBm

Name: KABC_TV -> K07TA
Frequency: 177.0000 MHz
Polarization: horizontal
Length: 222.62 km
Number of obstacles: 0
Excess path loss: 68.5 dB
Atm. absorption loss: 0.0 dB
Path loss for stats: 192.85 dB
Flat fade margin: -29.59 dB
Total fade margin: -29.59 dB
Annual fade outage: 31536000.00 s
Annual rain outage: 0.00 s
Link availability: 0.0000 %

Receiver Site: K07TA
Name: KO7TA_Lic
Location:
N34°50'06.00" W120°22'56.00"
Site elevation: 346.6 m
Antenna height: 10.0 m
Pointing azimuth: 108.3 deg
Receiver threshold: -76.00 dBm
Trans. line loss: 1.19 dB
Other losses: 3.00 dB
Antenna gain: 10.00 dB
Antenna file:
Received signal level: -105.55 dBm

Notes
KABC to K07TA LIC
Site to Site

EXHIBIT 4
KABC-DT

ABC HOLDING COMPANY, INC.
TELEVISION STATION KABC-TV, FACILITY ID 282
DTV MAXIMIZATION APPLICATION
MODIFICATION OF CONSTRUCTION PERMIT
CHANNEL 7 – 28.7 KW DA MAX(DTV AVERAGE) – 978 METERS HAAT

LOS ANGELES, CALIFORNIA

EXHIBIT 4

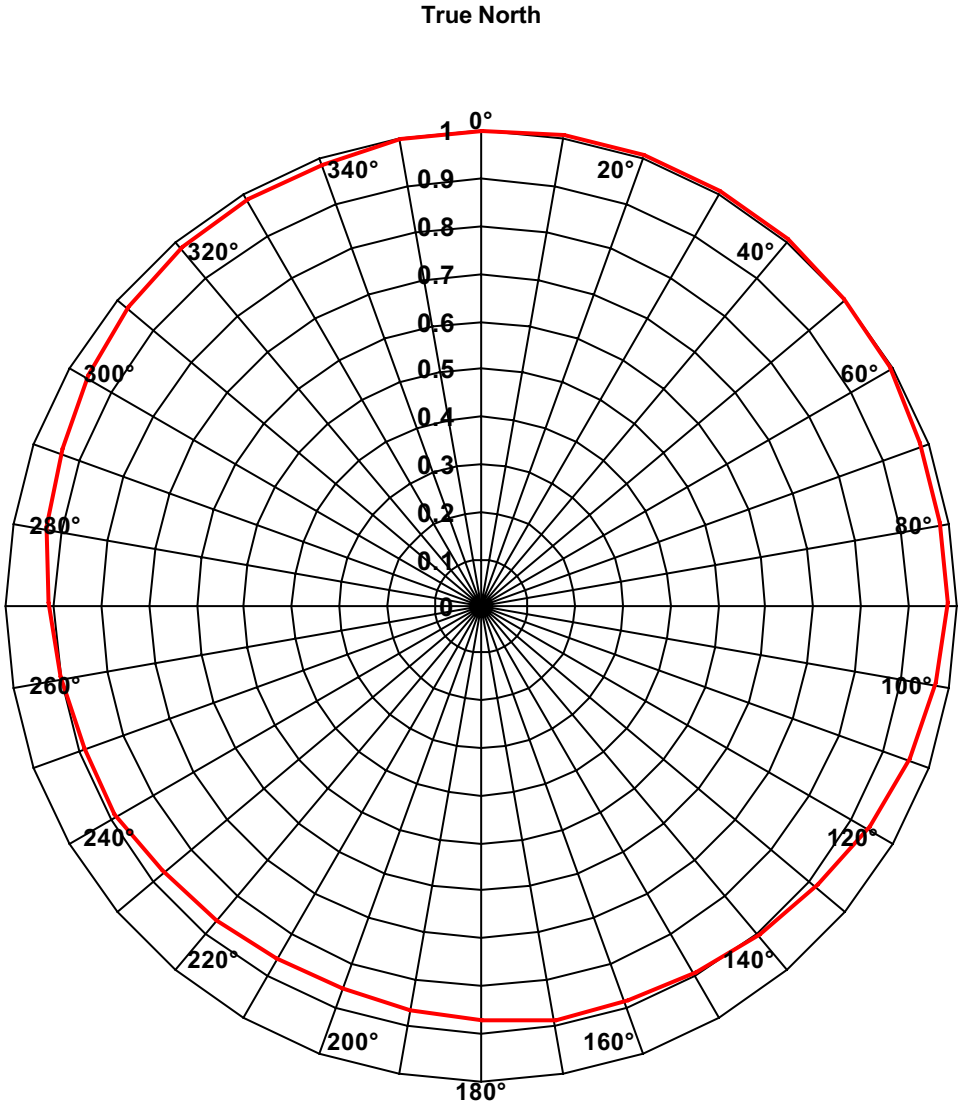
Azimuth Pattern of Presently Licensed and Proposed
Harris TAV-6H CPV Antenna

NTSC Antenna ID 19234
Post-Transition Antenna ID 85687
Modified CP Post-Transition Antenna ID 88014

The Harris TAV-6H CPV Antenna is non-directional in azimuth if no mechanical beam tilt is used.

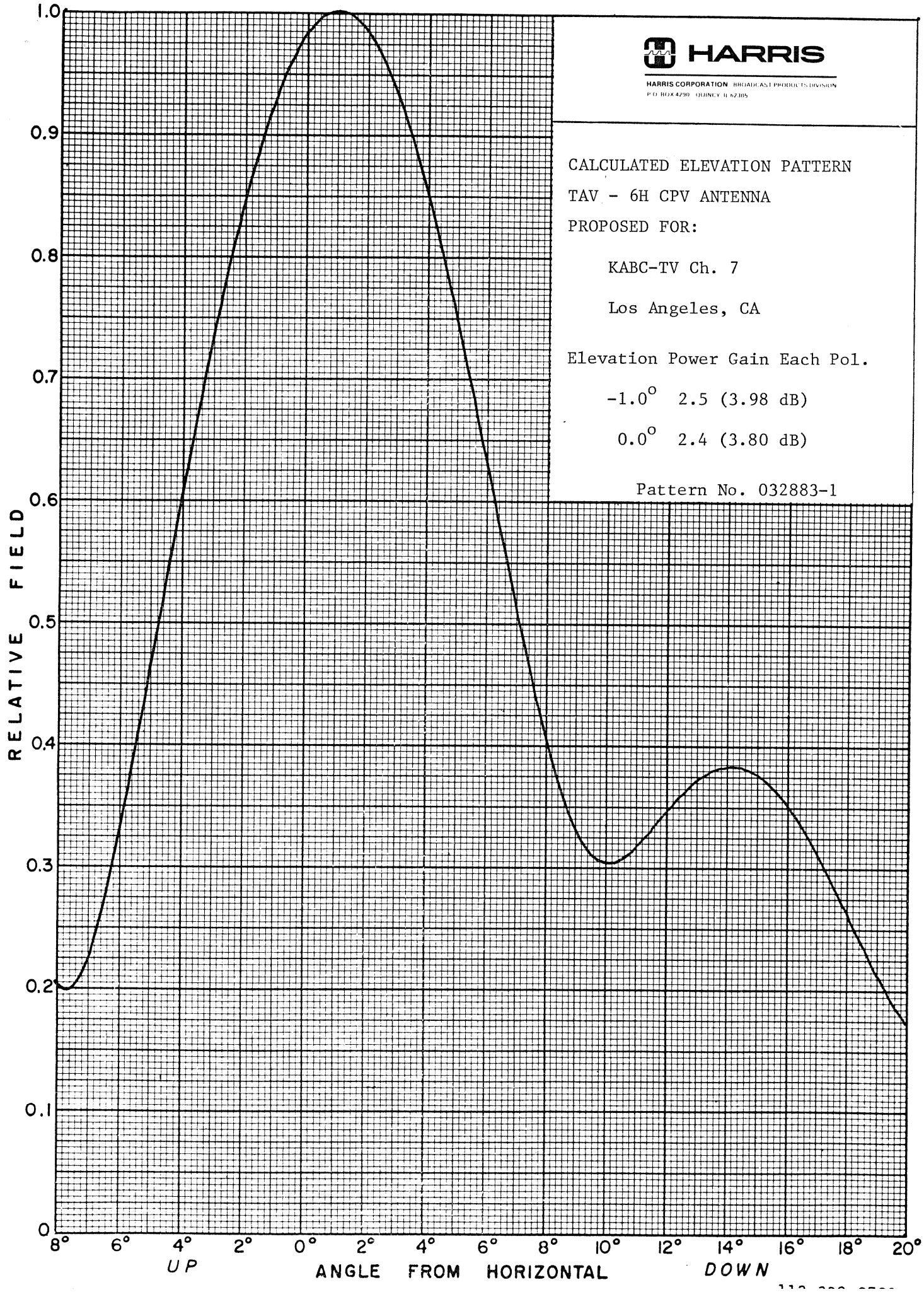
Mechanical Beam Tilt and Electrical Beam Tilt as proposed is described in Section III-D, Items 10a through 10e of FCC Form 301.

Exhibit 4



Azimuth (deg T.)	Relative Field	ERP (kilowatts)	ERP (dBk)
0	0.99	28.129	14.492
10	1	28.700	14.579
20	1	28.700	14.579
30	1	28.700	14.579
40	1	28.700	14.579
50	0.99	28.129	14.492
60	0.99	28.129	14.492
70	0.98	27.563	14.403
80	0.98	27.563	14.403
90	0.98	27.563	14.403
100	0.97	27.004	14.314
110	0.96	26.450	14.224
120	0.94	25.359	14.041
130	0.92	24.292	13.855
140	0.91	23.766	13.760
150	0.9	23.247	13.664
160	0.89	22.733	13.567
170	0.89	22.733	13.567
180	0.88	22.225	13.468
190	0.87	21.723	13.369
200	0.86	21.227	13.269
210	0.86	21.227	13.269
220	0.87	21.723	13.369
230	0.88	22.225	13.468
240	0.89	22.733	13.567
250	0.89	22.733	13.567
260	0.9	23.247	13.664
270	0.91	23.766	13.760
280	0.93	24.823	13.948
290	0.94	25.359	14.041
300	0.96	26.450	14.224
310	0.97	27.004	14.314
320	0.98	27.563	14.403
330	0.98	27.563	14.403
340	0.98	27.563	14.403
350	0.99	28.129	14.492

DIRECTIONAL ANTENNA HORIZONTAL PLANE ENVELOPE PATTERN IN RELATIVE FIELD POST TRANSITION KABC-DT CH 7, LOS ANGELES, CA 28.7 kW, 85687 D-ANT (HAR 19234 D-ANT)


HARRIS
HARRIS CORPORATION BROADCAST PRODUCTS DIVISION
P.O. BOX 4290 QUINCY, IL 62305
CALCULATED ELEVATION PATTERN
TAV - 6H CPV ANTENNA
PROPOSED FOR:
KABC-TV Ch. 7
Los Angeles, CA
Elevation Power Gain Each Pol.
-1.0° 2.5 (3.98 dB)
0.0° 2.4 (3.80 dB)
Pattern No. 032883-1
RELATIVE FIELD
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
8° 6° 4° 2° 0° 2° 4° 6° 8° 10° 12° 14° 16° 18° 20°
UP
ANGLE FROM HORIZONTAL
DOWN