

**ENGINEERING EXHIBIT**

**KGO TELEVISION, INC.  
TELEVISION STATION KGO-TV, FACILITY ID 34470  
APPLICATION FOR POST-TRANSITION DTV CONSTRUCTION PERMIT  
CHANNEL 7 – 24.0 KW (DTV AVERAGE) – 514 METERS HAAT**

**SAN FRANCISCO, CALIFORNIA**

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## **ENGINEERING EXHIBIT**

### **KGO TELEVISION, INC., TELEVISION STATION KGO-TV, FACILITY ID 34470 APPLICATION FOR DTV POST-TRANSITION CONSTRUCTION PERMIT CHANNEL 7 – 24.0 KW (DTV AVERAGE) – 514 METERS HAAT**

**SAN FRANCISCO, CALIFORNIA**

## **ENGINEERING STATEMENT**

### **Introduction**

KGO Television, Inc. (KGO) is the licensee of KGO-TV, San Francisco, California. KGO is licensed to operate NTSC analog facilities on channel 7 with an effective radiated power of 316 KW at a height above average terrain of 509 meters. FCC File Number BLCT-2339 describes the KGO-TV analog channel 7 facilities. This license describes the facilities that were used as the basis for DTV replication facilities. The parameters specified in the instant application differ slightly from licensed parameters, primarily because of changes attributable to the tower registration process.

In the Seventh Report and Order, KGO was assigned a DTV Allotment on Channel 7 of 21 KW at 509 meters HAAT with a directional antenna which bears Antenna ID 74465.

KGO-TV began operation in May, 1949 and has been serving San Francisco since that time. KGO-DT was first licensed in December 1998 and has been continuously broadcasting Digital Television on channel 24 since that time. The DTV Construction Permit, FCC File Number BPCDT-19980424KF, and the subsequent license file number BLCDT-19981216KF describe the presently licensed DTV transmission system which operates on channel 24.

The directional pattern associated with the KGO-DT post-transition channel 7 DTV facilities in Appendix B of the Seventh Report and Order is derived from the differences in the F(50:90) curves between UHF and VHF, and the difference between the NTSC channel 7 F(50:50) curves when compared to the channel 24 F(50:90) curves. The initial allotment channel 24 pattern was derived to provide a replication of the channel 7 coverage at channel 24. The channel election process created a pattern for post-transition VHF DTV operation on channel 7. This channel 7 pattern is found in Appendix B and bears FCC Antenna ID Number 74465.

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Through this application, KGO seeks to obtain a Construction Permit to operate post transition DTV facilities on channel 7, and use the presently licensed NTSC channel 7 non-directional antenna, which is an RCA TW-9A7-P. This antenna is horizontally polarized. This antenna is the same antenna that formed the basis for the channel 24 initial allotment replication pattern.

KGO respectfully requests processing in accordance with the criteria outlined on the Filing Freeze Waiver Policy in Paragraph 151 of the Report and Order in the Third Periodic Review. The facilities described in this application for Construction Permit meets each of the criteria that are shown on Paragraph 151, and will prevent the loss of service which would occur if KGO-DT were forced to an antenna other than its presently licensed channel 7 antenna for post-transition service.

Processing under the Paragraph 151 criteria will enable KGO-DT to use the presently licensed channel 7 antenna – a non-directional VHF antenna with electrical beam tilt - without loss of service to those viewers who receive KGO off-the-air presently and have an expectation of being able to receive KGO-DT off-the-air in the post-transition era.

Because the facilities requested herein satisfy the Paragraph 151 criteria, this application may be processed immediately and is entitled to “cut-off” interference protection.

**Licensed Facility**

The KGO-TV license bears FCC File Number BLCT-19820609KE and specifies an ERP of 316 KW at 509 meters HAAT. This facility is a full NTSC facility for channel 7 operation with an HAAT of 509 meters in Television Zone II.

Through this application KGO-DT seeks a construction permit to return to its NTSC channel to operate post-transition facilities on channel 7 with the non-directional antenna with an ERP of 24.0 KW. This ERP satisfies the height vs. ERP requirements of Section 73.622(f)(7)(i) for DTV operation in Television Zone II.

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The presently licensed antenna is supported by a tower which bears Antenna Structure Registration Number 1001289. The main channel 7 antenna is an RCA TW-9A7-P. The RCA TW-9A7-P is a horizontally polarized, non-directional antenna.

**The KGO-TV Main License Expiration Date**

The KGO-TV Main License bears an expiration date of December 1, 2006. A timely application for renewal of the KGO license was filed with the Commission and bears FCC File number BRCT-20060810ANL and was accepted for filing on August 18, 2006. The instant application is acceptable for filing pending a final determination by the Commission on the outstanding application for renewal of the KGO-TV/DT 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 TV Process software with 2 KM cell size. The post-transition data that were used for these calculations were obtained from the post-transition database that was bundled with Check\_AppB Fortran source code and released by the FCC on Tuesday, February 26, 2008. 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 KGO-DT post-transition operation 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 KGO-DT, Facility ID number 34470. 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.

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The designated facilities described in Appendix B that are associated with post-transition operation of KGO-DT contain a directional antenna pattern and a maximum of 21 KW ERP. The directional pattern, Antenna ID 74465 is referenced in Appendix B and is a product of the channel election process.

A study was conducted to determine what effective radiated power would satisfy the requirements outlined in Paragraph 151 of the Report and Order in the Third Periodic Review, i.e., whether the proposed facilities:

1. Would allow the station to use its analog antenna or another antenna to avoid a significant reduction in post-transition service;
2. Would be no more than 5 miles larger in any direction than the authorized service area as defined in Appendix B; and
3. Would not cause impermissible interference, i.e., would not cause more than 0.5 percent new interference to other stations.

The study results as obtained through use of the Commission's TV Process software indicate that 24.0 KW ERP and the presently licensed NTSC channel 7 antenna will satisfy each of the criteria contained in Paragraph 151.

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Operation with the antenna that is described in Appendix B with an ERP of 21 KW DA-Max and the 74465 antenna pattern provides coverage to 6,516,637 persons, according to the results that were obtained from a calculation of Appendix B coverage. This calculation to check the population served by the KGO-DT post-transition Appendix B facility is in close agreement with the Commission's result of 6,516,000. 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.

If KGO-DT were restricted to the use of its presently licensed RCA TW-9A7-P antenna without exceeding the Noise Limited contour that is predicted by the KGO-DT Appendix B facility, the ERP would be limited to approximately 17.4 KW. The coverage obtained from these parameters is 6,468,447 persons. The difference between the Appendix B facility and the smaller 17.4 KW facility with the presently licensed NTSC non-directional antenna would cause a loss of post-transition DTV coverage to 48,190 persons.

Operation with 24.0 KW ERP and the presently licensed NTSC channel 7 antenna which is non-directional produces coverage of 6,563,188 persons after consideration of losses to terrain and interference from post-transition DTV facilities as found in Appendix B, according to results from TV\_Process calculations.

Calculations made using the presently licensed NTSC analog antenna with 24.0 KW ERP shows no new interference is created to any affected station that exceeds 0.5 percent. This satisfies the first of the three criteria in Paragraph 151.

Distances to predicted 36 dBu F(50:90) noise limited contours for the proposed 24.0 KW non-directional operation and the directional antenna that is described in Appendix B are shown in Exhibit 1 and Exhibit 2. The greatest excursion of the predicted noise-limited contour for the proposed 24.0 KW when used with the presently licensed KGO analog non-directional NTSC channel 7 antenna is 1.76 miles at 180 degrees true. The distances to contours in Exhibit 1 and Exhibit 2 are shown in kilometers; 1.76 miles is equal to 2.84 kilometers.

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The distances to the predicted contours are contained in Exhibit 1 and Exhibit 2. The Exhibits contain the results of distance calculations in kilometers as produced by FCC Curves. A distance of 5 miles is slightly greater than 8 kilometers. This satisfies the second of the three criteria in Paragraph 151.

The third criterion in Paragraph 151 is satisfied in that KGO-TV will be returning to channel 7 for post-transition operation from channel 24, the initial allotment DTV channel and the proposed use of its presently licensed channel 7 NTSC antenna will satisfy each of the criteria contained in Paragraph 151.

**Interference Calculations**

The TV\_Process calculations of new interference to other stations caused by the use of 24.0 KW ERP with the presently licensed non-directional NTSC antenna in place of the Appendix B facilities for KGO identified four affected stations and show the following results:

07 KRNV, Reno, Nevada	0.0035% Additional Interference
07 KAIL, Fresno, CA	No Additional Interference
07 KRCR-TV, Redding, CA	0.0132% Additional Interference
08 KSBW, Salinas, CA	0.4363% Additional Interference

The calculations show that the proposed KGO channel 7 DTV post-transition operation with the presently licensed NTSC antenna when operating with 24.0 KW ERP causes no additional interference beyond that which is allowed by the Rules for post-transition DTV operation. The results which are shown in the interference study satisfy the last of the three criteria in Paragraph 151.

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### **Protection to Class A Stations**

There is no Class A station that requires study.

### **Protection to Nearby AM Stations**

There is no AM station within 3.2 kilometers of the KGO-DT 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 approximately 61.6 KM from the KGO transmission system. The greatest study distance for transmission systems that operate in the 174 to 180 MHz range with less than 25 KW ERP is 16 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 large 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.

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### **Principal Community Coverage**

Exhibit 3 is a map which depicts the 43 dBu F(50:90) contour and demonstrates that the entire city of San Francisco, California is contained within this contour. This map also depicts the 36 dBu noise limited contour. This map 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 KGO Transmitter is located on the Sutro Tower, 1 La Avanzada Street, San Francisco, California.

Because the instant application requires no construction outside of the KGO-DT transmitter room, there will be no physical effect to the environment at or near the Sutro Tower.

The KGO-TV main transmitting antenna is situated at the top level of the Sutro Tower with several other television and FM radio broadcasting stations. The antennas associated with these broadcasting stations have been installed over a period of several decades, with much of the recent activity owing to the construction of DTV main and auxiliary antenna systems. Measurements of radiofrequency fields on and around the Sutro Tower and associated building areas were made by the consulting engineering firm of Hammett and Edison.

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**Site Description**

The Sutro Tower site is completely surrounded by a fence which precludes public access. The site is manned at all times, every day of the year, 24 hours each day. Access to the tower itself is controlled by electrical lock-out switches which preclude any access to the tower elevators without first obtaining a key from the Sutro Tower management. Only persons who have been properly instructed in RF safety procedures are permitted on the tower or on those locations on the site when elevated levels of radiofrequency energy are expected at ground level.

The Hammett and Edison study has concluded that during operation on main antennas, the fields at ground level do not exceed the limits in the Commission's Rules for Uncontrolled Areas. Some locations inside the perimeter fence exhibit elevated levels of radiofrequency fields when certain combinations of antennas are operating, but no location at ground level was found to exceed the occupational maximum permissible exposure limit with any combination of antennas in the recent evaluation .

**Safety Practices**

The Sutro Tower RF safety practices are followed within the fenced area and on the tower itself. The locations on the Sutro Tower where occupational levels are exceeded are defined in the Sutro Tower RF Safety Practices documents that are supplied to each tenant. This document also contains safety requirements to instruct workers and others who must work aloft about basic physical safety measures as well as measures that are taken to assure workers that they will not inadvertently be subjected to excessive exposure to radiofrequency energy.

The tenants who operate transmitting facilities have agreed to reduce power, operate from auxiliary antennas or cease operation when access is required by workers aloft. As a tenant, KGO-TV is required to follow the RF safety practices that have been developed, and supports efforts by Sutro Tower Inc. to revise the safety practices as required when new operations begin or older operations are modified.

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**Study Results**

The Hammett and Edison evaluation determined that the Sutro Tower Communications Site fully complies with applicable FCC Rules regarding human exposure to radiofrequency energy.

Based on the latest evaluation of the RF environment at Sutro Tower, and the commitment of KGO-TV to strictly follow the RF Safety Practices that have been developed by Sutro Tower Inc., it can be concluded that the operation of KGO-TV meets the Commission's requirements regarding human exposure to radiofrequency energy, as contained in Sections 1.1307(b) and 1.1310 of the Commission's Rules.

The KGO transmitter site as presently operating and the proposed post-transition operation complies with Section 1.1307 and the limits of human exposure to radiofrequency energy that are found in Section 1.1310 of the Commission's rules.

The KGO-TV and KGO-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 KGO-DT post-transition DTV operation meets the requirements of the Commission's Rules with the exception that the noise-limited contour is not completely contained within the predicted noise limited contour produced by the Appendix B facilities. The extension of the noise limited contour is consistent with the standards described in Paragraph 151 of the Report and Order in the Third Periodic Review. Accordingly, KGO-DT respectfully requests processing of this application consistent with Paragraph 151 so that it may use its presently licensed analog antenna and to continue to serve the 94,741 persons that would otherwise be lost.

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**Certification**

I certify that, on behalf of the KGO Television, Inc., licensee of KGO-TV and KGO-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 the KGO Television, Inc., I have prepared or 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.

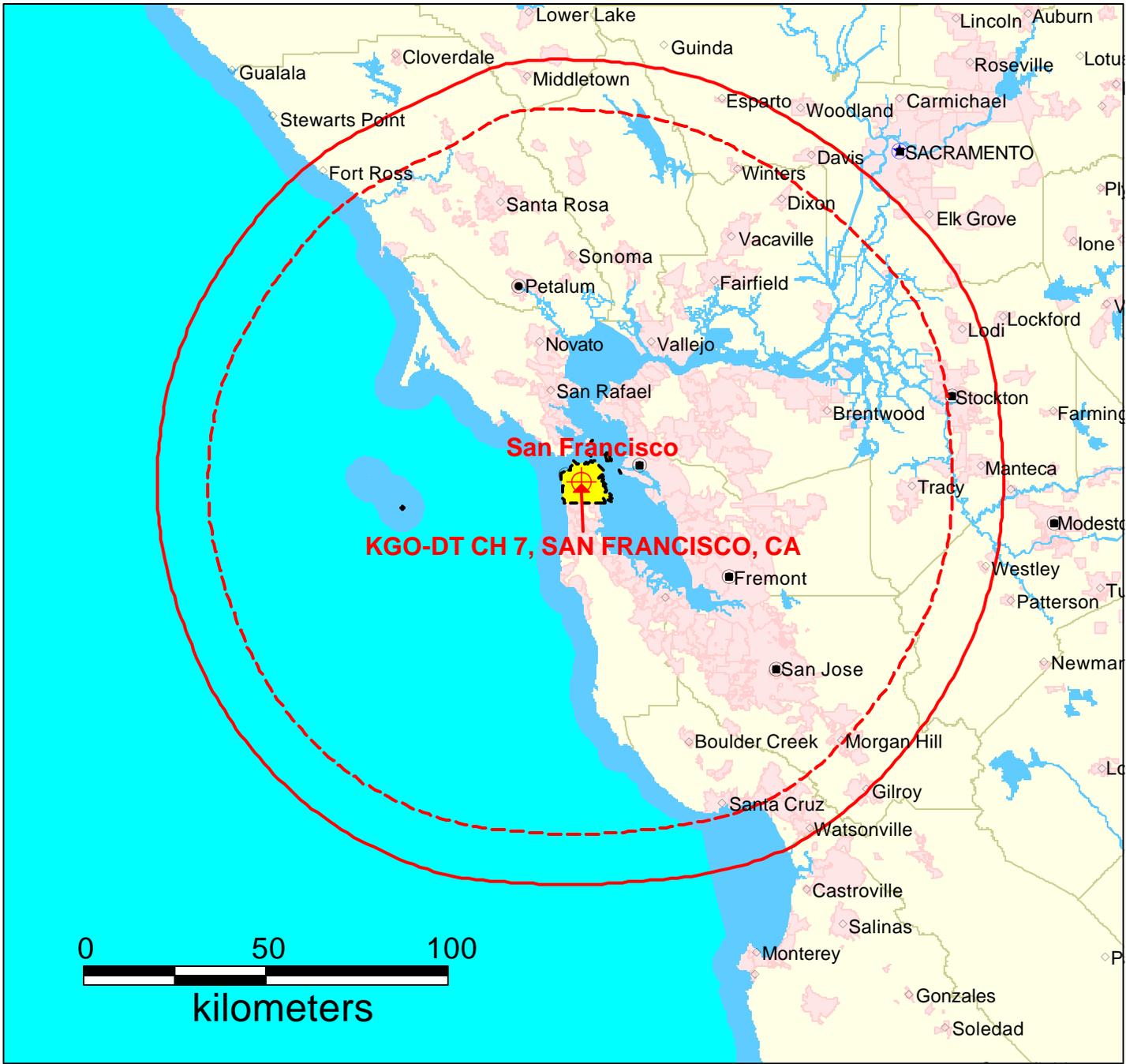


Signed: \_\_\_\_\_  
Alfred E. Resnick, P. E.

Dated: June 4, 2008

	<b>KGO, SAN FRANCISCO, CA (DTV - Appendix B Facility) Latitude: 37 45 20 Longitude: 122 27 05 CH. 7, 21 kW, 509 mHAAT, 540 mRCAMSL, 74465 D-ANT PREDICTED 36 dBu, F(50,90) NOISE LIMITED CONTOUR</b>	<b>KGO, SAN FRANCISCO, CA (DTV - Proposed Post Transition) Latitude: 37 45 19 Longitude: 122 27 06 CH. 7, 24 kW, 514 mHAAT, 541.2 mRCAMSL, NOND ANT PREDICTED 36 dBu, F(50,90) NOISE LIMITED CONTOUR</b>
Radial	Distance (km)	Distance (km)
0	113.68	115.24
10	113.49	115.02
20	113.08	114.62
30	112.66	114.17
40	112.68	114.10
50	113.34	114.71
60	114.81	116.16
70	114.9	116.24
80	113.48	114.81
90	113.18	114.50
100	113.24	114.57
110	112.86	114.21
120	112.28	113.85
130	112.33	113.88
140	112.49	114.18
150	111.79	113.84
160	109.18	111.73
170	106.38	109.24
180	105.87	108.76
190	106.9	109.76
200	109.86	112.44
210	111.67	113.69
220	113.04	114.58
230	113.59	114.86
240	113.35	114.69
250	113.12	114.37
260	113.44	114.67
270	113.53	114.74
280	113.42	114.64
290	113.09	114.39
300	112.36	113.64
310	112.28	113.46
320	112.27	113.68
330	111.06	112.58
340	111.46	112.93
350	114.43	115.92

	<b>KGO, SAN FRANCISCO, CA  (DTV - Appendix B Facility)  Latitude: 37 45 20 Longitude: 122 27 05  CH. 7, 21 kW, 509 mHAAT,  540 mRCAMSL, 74465 D-ANT  PREDICTED 36 dBu, F(50,90)  NOISE LIMITED CONTOUR</b>	<b>KGO, SAN FRANCISCO, CA  (DTV - Proposed Post Transition)  Latitude: 37 45 19 Longitude: 122 27 06  CH. 7, 24 kW, 514 mHAAT,  541.2 mRCAMSL, NOND ANT  PREDICTED 36 dBu, F(50,90)  NOISE LIMITED CONTOUR</b>
Radial	Distance (km)	Distance (km)
0	113.68	115.24
45	112.91	114.31
90	113.18	114.50
135	112.2	113.81
180	105.87	108.76
225	113.48	114.87
270	113.53	114.74
315	114.73	115.98



**PREDICTED COVERAGE CONTOURS**

KGO-DT Ch 7, SAN FRANCISCO, CA  
24kW, 514 mHAAT  
541.2 mRCAMSL, NOND ANT

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

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

MAY 2008

**CARL T. JONES**  
CORPORATION

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-16-2008 Time: 17:40:24

Record Selected for Analysis

KGO-TV BDTV -0007 SAN FRANCISCO CA US  
Channel 07 ERP 24.0 kW HAAT 514.0 m RCAMSL 541.2 m  
Latitude 037-45-19 Longitude 0122-27-06  
Status CP Zone 2 Border  
Dir Antenna Make Model Beam tilt Y Ref Azimuth 0.0  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	24.000	515.8	115.3
45.0	24.000	526.2	115.8
90.0	24.000	530.1	116.0
135.0	24.000	522.9	115.6
180.0	24.000	424.0	109.0
225.0	24.000	532.7	116.1
270.0	24.000	535.2	116.3
315.0	24.000	534.8	116.3

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete



Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KRNV	RENO NV	BLCDT	-20040622ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	252.4	LIC	BLCDT	-20021002ABH
07	KWNV	WINNEMUCCA NV	260.5	CP	BPCDT	-19991029AEB
07	KGO-TV	SAN FRANCISCO CA	282.7	CP	BDTV	-0007
07	KGO-DT	SAN FRANCISCO CA	282.7	PLN	DTVPLN	-DTVP0525
07	KRCR-TV	REDDING CA	275.7	CP	BPRM	-20000412AAE

Total scenarios = 1

Result key: 1  
 Scenario 1 Affected station 1  
 Before Analysis

Results for: 7A NV RENO BLCDT 20040622ABF LIC  
 HAAT 879.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	828499	47854.2
not affected by terrain losses	697953	40375.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20709	1075.2
lost to ATV IX only	20709	1075.2
lost to all IX	20709	1075.2

Potential Interfering Stations Included in above Scenario 1

7A CA FRESNO	BLCDT	20021002ABH	LIC
7A NV WINNEMUCCA	BPCDT	19991029AEB	CP
7A CA REDDING	BPRM	20000412AAE	CP
7A CA SAN FRANCISCO	DTVPLN	DTVP0525	PLN

After Analysis

Results for: 7A NV RENO BLCDT 20040622ABF LIC  
 HAAT 879.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	828499	47854.2
not affected by terrain losses	697953	40375.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20733	1075.2
lost to ATV IX only	20733	1075.2
lost to all IX	20733	1075.2

Potential Interfering Stations Included in above Scenario 1

7A CA FRESNO	BLCDT	20021002ABH	LIC
7A NV WINNEMUCCA	BPCDT	19991029AEB	CP
7A CA REDDING	BPRM	20000412AAE	CP
7A CA SAN FRANCISCO	BDTV	0007	CP

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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	-0007
07	KGO-DT	SAN FRANCISCO CA	277.2	PLN	DTVPLN	-DTVP0525
07	KABC-TV	LOS ANGELES CA	339.5	CP	BDTV	-0000
08	KSBW	SALINAS CA	187.3	CP	BFRCT	-20050815ACD

Total scenarios = 1

Result key: 2  
 Scenario 1 Affected station 2  
 Before Analysis

Results for: 7A CA FRESNO BLCDT 20021002ABH LIC  
 HAAT 560.0 m, ATV ERP 38.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1660067	36963.8
not affected by terrain losses	1634894	34350.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3262	693.5
lost to ATV IX only	3262	693.5
lost to all IX	3262	693.5

Potential Interfering Stations Included in above Scenario 1

7A CA SAN FRANCISCO DTVPLN DTVP0525 PLN

After Analysis

Results for: 7A CA FRESNO BLCDT 20021002ABH LIC  
 HAAT 560.0 m, ATV ERP 38.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1660067	36963.8
not affected by terrain losses	1634894	34350.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3249	697.5
lost to ATV IX only	3249	697.5
lost to all IX	3249	697.5

Potential Interfering Stations Included in above Scenario 1

7A CA SAN FRANCISCO BDTV 0007 CP

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KRCR-TV	REDDING CA	BPRM	-20000412AAE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KRNV	RENO NV	275.7	LIC	BLCDDT	-20040622ABF
07	KWNV	WINNEMUCCA NV	413.3	CP	BPCDDT	-19991029AEB
07	KGO-TV	SAN FRANCISCO CA	317.0	CP	BDTV	-0007
07	KGO-DT	SAN FRANCISCO CA	316.9	PLN	DTVPLN	-DTVP0525
08	KUNO-TV	FORT BRAGG CA	128.2	CP	BPCDDT	-19991019ABW

Total scenarios = 1

Result key: 3  
 Scenario 1 Affected station 3  
 Before Analysis

Results for: 7A CA REDDING BPRM 20000412AAE CP  
 HAAT 1106.0 m, ATV ERP 11.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	403406	46754.0
not affected by terrain losses	372114	38613.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	310	251.9
lost to ATV IX only	310	251.9
lost to all IX	310	251.9

Potential Interfering Stations Included in above Scenario 1

8A CA FORT BRAGG	BPCDDT	19991019ABW	CP
7A CA SAN FRANCISCO	DTVPLN	DTVP0525	PLN

After Analysis

Results for: 7A CA REDDING BPRM 20000412AAE CP  
 HAAT 1106.0 m, ATV ERP 11.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	403406	46754.0
not affected by terrain losses	372114	38613.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	359	263.9
lost to ATV IX only	359	263.9
lost to all IX	359	263.9

Potential Interfering Stations Included in above Scenario 1

8A CA FORT BRAGG	BPCDDT	19991019ABW	CP
7A CA SAN FRANCISCO	BDTV	0007	CP

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	KSBW	SALINAS CA	BFRCCT	-20050815ACD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAIL	FRESNO CA	187.3	LIC	BLCDDT	-20021002ABH
07	KGO-TV	SAN FRANCISCO CA	139.3	CP	BDTV	-0007
07	KGO-DT	SAN FRANCISCO CA	139.3	PLN	DTVPLN	-DTVP0525
08	KUNO-TV	FORT BRAGG CA	373.5	CP	BPCDDT	-19991019ABW
09	KVIE	SACRAMENTO CA	168.4	CP	BDTV	-0000

Total scenarios = 1

Result key: 4  
 Scenario 1 Affected station 4  
 Before Analysis

Results for: 8A CA SALINAS BFRCCT 20050815ACD CP

HAAT 736.0 m, ATV ERP 19.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	3649746	38999.7
not affected by terrain losses	3007140	29901.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	446080	1050.2
lost to ATV IX only	446080	1050.2
lost to all IX	446080	1050.2

Potential Interfering Stations Included in above Scenario 1

7A CA FRESNO	BLCDDT	20021002ABH	LIC
8A CA FORT BRAGG	BPCDDT	19991019ABW	CP
9A CA SACRAMENTO	BDTV	0000	CP
7A CA SAN FRANCISCO	DTVPLN	DTVP0525	PLN

After Analysis

Results for: 8A CA SALINAS BFRCCT 20050815ACD CP

HAAT 736.0 m, ATV ERP 19.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	3649746	38999.7
not affected by terrain losses	3007140	29901.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	457253	1090.5
lost to ATV IX only	457253	1090.5
lost to all IX	457253	1090.5

Potential Interfering Stations Included in above Scenario 1

7A CA FRESNO	BLCDT	20021002ABH	LIC
8A CA FORT BRAGG	BPCDT	19991019ABW	CP
9A CA SACRAMENTO	BDTV	0000	CP
7A CA SAN FRANCISCO	BDTV	0007	CP

The following station failed the de minimis interference criteria.

7D CA SAN FRANCISCO	BDTV	0007
ERP 24.00 kW HAAT	514.0 m RCAMSL	541.2 m
Antenna	none	

Due to interference to the following station and scenario: 1

8D CA SALINAS	BFCCT	20050815ACD
ERP 19.20 kW HAAT	736.0 m RCAMSL	1034.0 m
Antenna CDB	00000000070343	

Percent Service lost without proposal:	0.0	to BFCCT	20050815ACD
Percent Service lost with proposal:	0.4	to BFCCT	20050815ACD

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Analysis of Interference to Affected Station 5

DTV Baseline Analysis

Channel	Call	City/State	Application Ref. No.
07	KGO-DT	SAN FRANCISCO CA	DTVPLN -DTVP0525

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
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Results for: 7A CA SAN FRANCISCO DTVPLN DTVP0525 PLN

HAAT	509.0 m, ATV ERP	21.0 kW
	POPULATION	AREA (sq km)
within Noise Limited Contour	7659021	40507.4
not affected by terrain losses	7026972	35889.7
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	KGO-TV	SAN FRANCISCO CA	BDTV	-0007

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KRNV	RENO NV	282.7	LIC	BLCDDT	-20040622ABF
07	KAIL	FRESNO CA	277.2	LIC	BLCDDT	-20021002ABH
07	KRCR-TV	REDDING CA	317.0	CP	BPRM	-20000412AAE
08	KSBW	SALINAS CA	139.3	CP	BFRCTT	-20050815ACD

Total scenarios = 1

Result key: 5  
 Scenario 1 Affected station 5  
 Before Analysis

Results for: 7A CA SAN FRANCISCO BDTV 0007 CP  
 HAAT 514.0 m, ATV ERP 24.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7717637	41675.5
not affected by terrain losses	7118403	36908.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	555215	3618.2
lost to ATV IX only	555215	3618.2
lost to all IX	555215	3618.2

Potential Interfering Stations Included in above Scenario 1

7A NV RENO	BLCDDT	20040622ABF	LIC
7A CA FRESNO	BLCDDT	20021002ABH	LIC
7A CA REDDING	BPRM	20000412AAE	CP
8A CA SALINAS	BFRCTT	20050815ACD	CP

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