

ENGINEERING EXHIBIT

Application to Modify Digital Television Station Construction Permit

prepared for

**Young Broadcasting of San Francisco, Inc.,
Debtor-In-Possession**
KRON-TV San Francisco, CA
Facility ID 65526
Ch. 38 1000 kW 512 m

Young Broadcasting of San Francisco, Inc., Debtor-In-Possession (“*Young*”) is the licensee of television station KRON-TV, pre-transition analog Channel 4 and digital Channel 57, San Francisco, CA. A Construction Permit (“CP”, BMPCDT-20080619AFU) authorizes construction of the KRON-TV post-transition digital facility on Channel 38, as established in Appendix B of the Seventh Report and Order in MB Docket 87-268. At the transition date, KRON-TV commenced operations on digital Channel 38 with a reduced facility pursuant to Special Temporary Authorization (“STA”, BDSTA-20080821ACV).

Construction of the transmission facility authorized in the CP has recently been completed, which involves a shared antenna system provided by the tower structure owner. Upon commissioning of the facility and final review of parameters, it has been determined that the as-built directional antenna pattern exceeds the authorized relative field values in some azimuths. There is no change in antenna make and model number, however the final antenna data provided by the manufacturer discloses minor variations in the directional pattern. Accordingly, *Young* herein seeks to modify the CP to incorporate the final directional pattern data.¹ There is no change to the

¹Contemporaneously with the filing of this application, *Young* is submitting an STA request to operate KRON-TV with the as-built antenna system. The STA request specifies operation at reduced power such that the DTV service contour will not extend beyond that as authorized under BMPCDT-20080619AFU. Full power operation can commence with the grant of the instant application.

currently authorized maximum effective radiated power (“ERP”), antenna location, or antenna height.

The shared antenna system is a Dielectric model TUM-C5SP-14/60H-2-T-R. Elliptical polarization is employed (21.8 percent vertical polarization). The maximum horizontally polarized ERP is 1000 kW, and the maximum vertically polarized ERP is 218 kW. The vertically polarized component does not exceed the horizontally polarized component at any azimuth. The directional antenna’s azimuthal patterns are depicted in **Figures 1** and **1A** for horizontal and vertical polarization, respectively. **Figures 2** and **2A** provide the theoretical elevation (vertical plane) pattern.

The antenna has been recently top-mounted on the existing Sutro Tower candelabra antenna supporting structure (FCC Antenna Structure Registration number 1001289), part of an overall reconfiguration to replace the top-mounted analog antennas. There is no change to the overall structure height.

A map is supplied as **Figure 3**, which depicts the standard predicted coverage contours. This map includes the location of San Francisco, KRON-TV’s principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 48 dBμ contour.

The proposed KRON-TV facility’s predicted service population provides a 102.3 percent match of the Appendix B facility, as detailed in the following table.

Post-Transition Population Summary		
Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	7,115,864	7,531,692
Not affected by terrain losses	6,430,468	6,721,713
Lost to all interference	92,241	237,549
Net DTV Service	6,338,227	6,484,164
Match of Appendix B	---	102.30%

A detailed interference study per OET Bulletin 69² shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The proposed 1000 kW ERP exceeds the maximum allowed for the antenna HAAT of 512 meters currently permitted by §73.622(f)(6)(i). Section 73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the largest station within the same market. The total area within the proposed KRON-TV 41 dBμ contour is 36,694 square kilometers, which does not exceed the 41,539 square kilometers within the authorized post-transition contour area associated with station KGO-TV (BLCDT-20090824ADG pending, Ch. 7, San Francisco, CA). A coverage contour comparison map is provided as **Figure 4**. Thus, the ERP specified herein is in compliance with §73.622(f)(5) of the Commission's Rules.

The nearest FCC monitoring station is 62 km distant at Livermore, CA. Using the FCC propagation curves, the proposed F(50,90) signal level at the monitoring station is 3.35 mV/m, which is below the 10 mV/m threshold of §73.1030(c) for further analysis. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission's database. The site location is beyond the border areas requiring international coordination.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The tower appurtenance reconfiguration to install the shared transmitting antenna involves replacement antennas on an existing antenna support structure. The use of existing transmitting

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 15 percent antenna relative field in downward elevations (pattern data shows less than 15 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $11.1 \mu\text{W}/\text{cm}^2$, which is 2.7 percent of the general population/uncontrolled maximum permitted exposure limit. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

The environmental subjects listed under §1.1307(a) are not considered herein. Section 1.1307(a) matters are covered by the structure owner as certified in the associated FCC Antenna Structure Registration number 1001289.

Engineering Exhibit
Young Broadcasting of San Francisco, Inc.,
Debtor-In-Possession
(page 5 of 5)



Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



Joseph M. Davis, P.E.
October 26, 2009

Chesapeake RF Consultants, LLC
11993 Kahns Road
Manassas, VA 20112
703-650-9600

List of Attachments

Figure 1, 1A	Antenna Horizontal Plane Pattern
Figure 2, 2A	Antenna Elevation Pattern
Figure 3	Proposed Coverage Contours
Figure 4	Maximum ERP per §73.622(f)
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

This material was entered October 26, 2009 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.

Proposal Number	C-02113	Revision:	3
Date	12-Sep-08		
Call Letters	KRON-DT	Channel	38
Location	San Francisco, CA		
Customer			
Antenna Type	TUM-C5SP-14/60H-2-T-R		

AZIMUTH PATTERN

Gain **1.81** **(2.58 dB)**
Calculated / Measured **Calculated**

Frequency **617.00 MHz**
Drawing # **TUM-C5SP-6170**

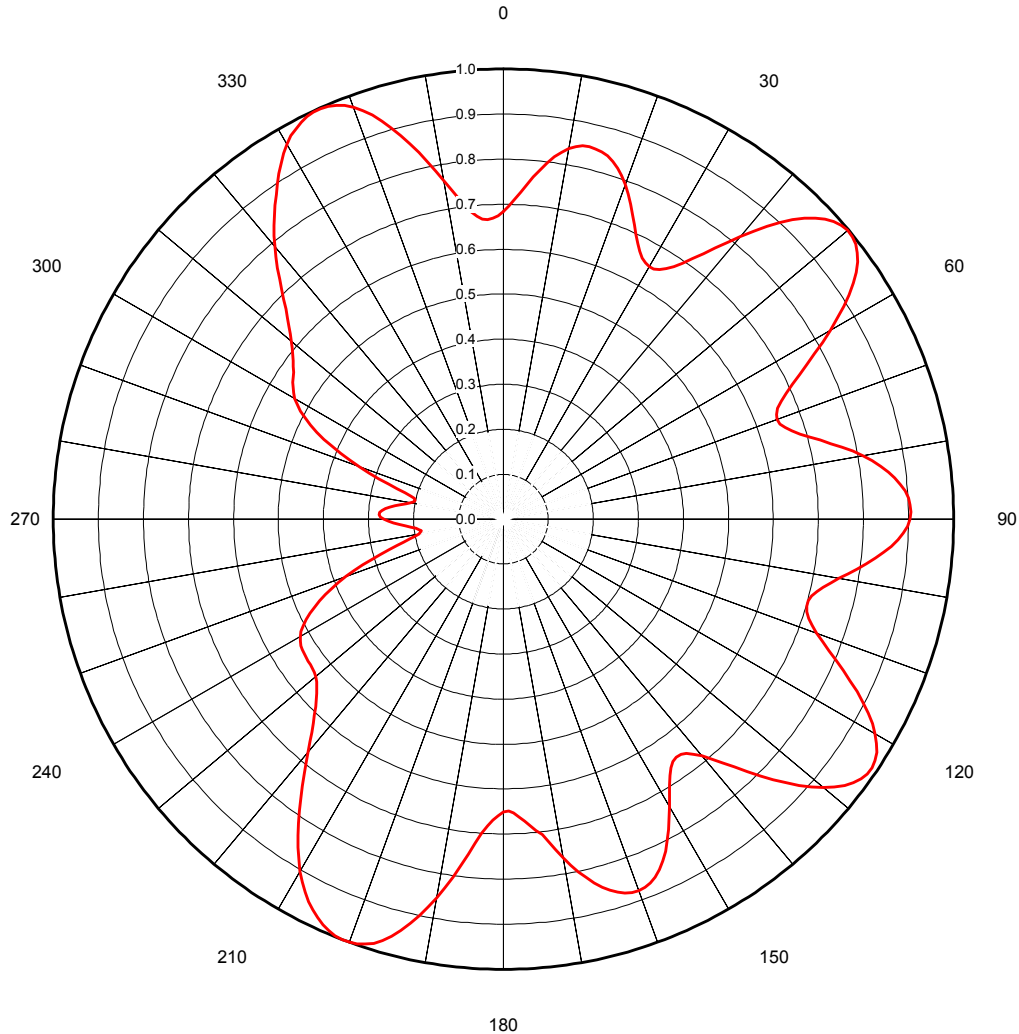


Figure 1

**Antenna Horizontal Plane Pattern
Horizontal Polarization
KRON-TV San Francisco, CA
Facility ID 65526
Ch. 38 1000 kW 512 m**

prepared for
**Young Broadcasting of San Francisco, Inc.,
Debtor-In-Possession**

October, 2009



Proposal Number **EM-02113** Revision: **3**
 Date **12-Sep-08**
 Call Letters **KRON-DT** Channel **38**
 Location **San Francisco, CA**
 Customer
 Antenna Type **TUM-C5SP-14/60H-2-T-R**

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain **2.10 (3.22 dB)**
 Calculated / Measured **Calculated**

Frequency **617.00 MHz**
 Drawing # **TUM-C5SP-6170**

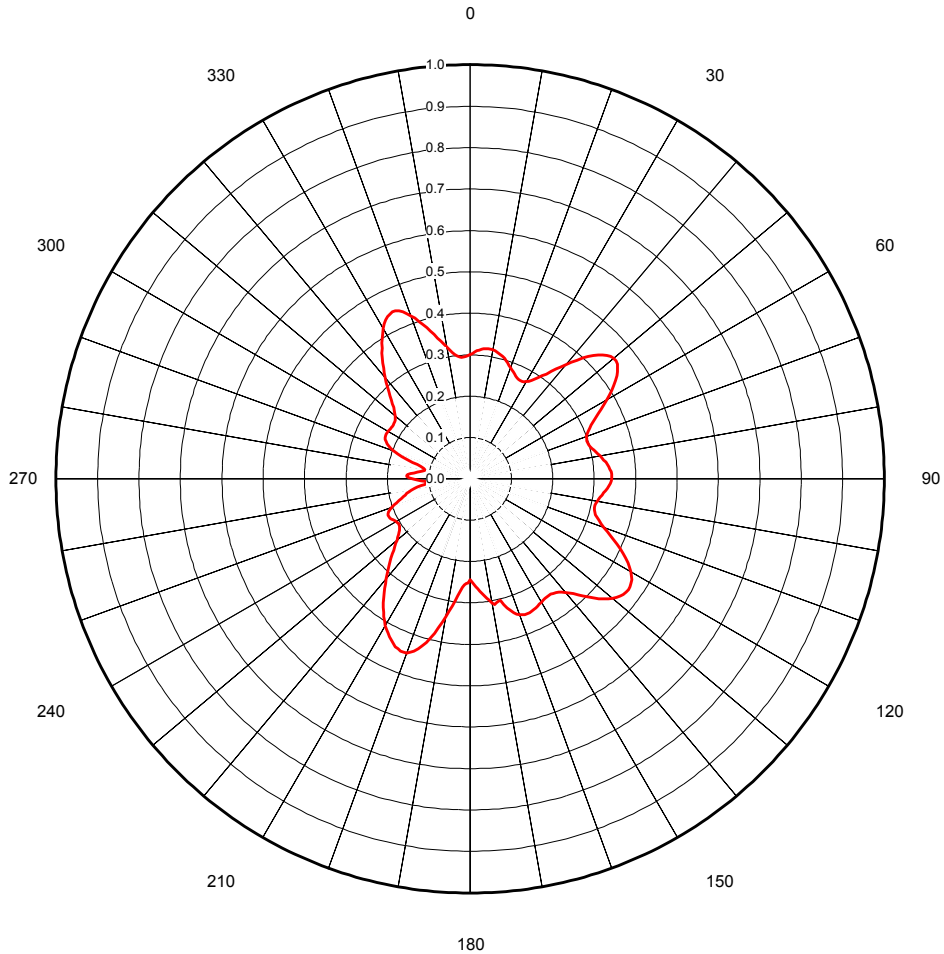


Figure 1A
Antenna Horizontal Plane Pattern
Vertical Polarization
KRON-TV San Francisco, CA
Facility ID 65526
Ch. 38 1000 kW 512 m

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Proposal Number **C-02113** Revision: **3**
Date **12-Sep-08**
Call Letters **KRON-DT** Channel **38**
Location **San Francisco, CA**
Customer
Antenna Type **TUM-C5SP-14/60H-2-T-R**

ELEVATION PATTERN

RMS Gain at Main Lobe	25.90 (14.13 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	12.50 (10.97 dB)	Frequency	617.00 MHz
Calculated / Measured	Calculated	Drawing #	14U269075-90

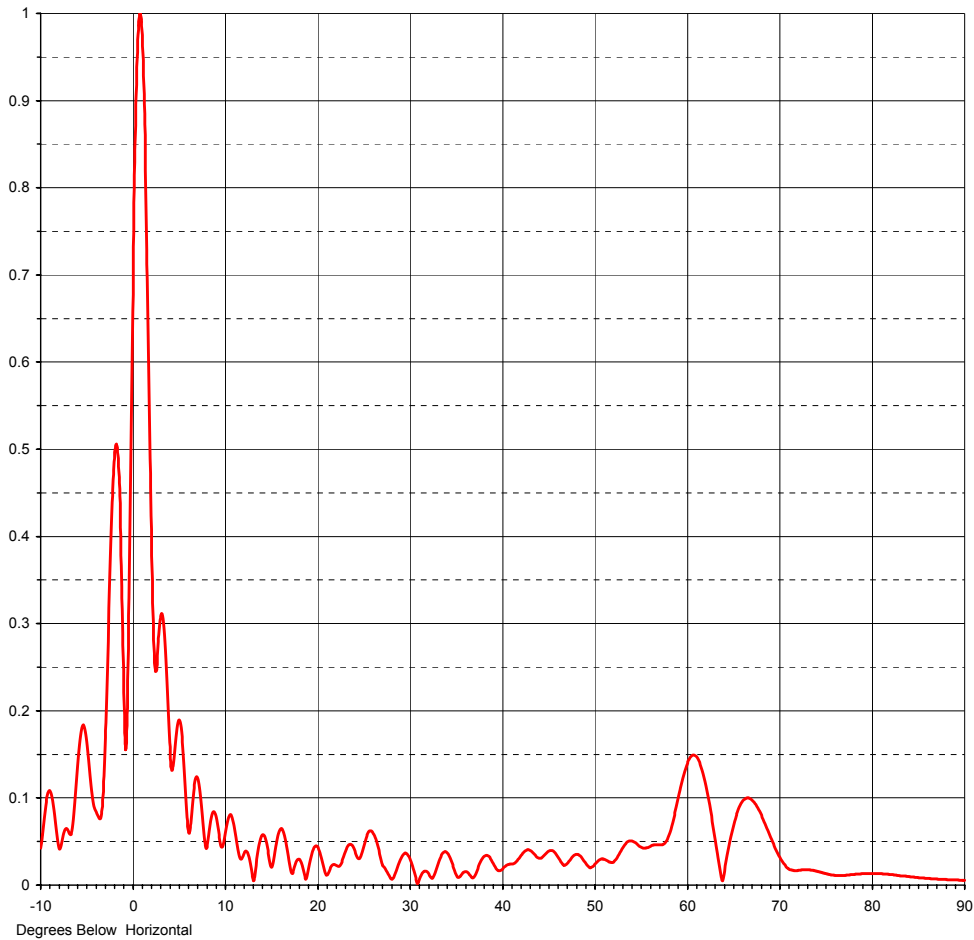


Figure 2
Antenna Elevation Pattern
KRON-TV San Francisco, CA
Facility ID 65526
Ch. 38 1000 kW 512 m

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Proposal Number **C-02113** Revision: **3**
Date **12-Sep-08**
Call Letters **KRON-DT** Channel **38**
Location **San Francisco, CA**
Customer
Antenna Type **TUM-C5SP-14/60H-2-T-R**

ELEVATION PATTERN

RMS Gain at Main Lobe **25.90 (14.13 dB)** Beam Tilt **0.75 deg**
RMS Gain at Horizontal **12.50 (10.97 dB)** Frequency **617.00 MHz**
Calculated / Measured **Calculated** Drawing # **14U269075**

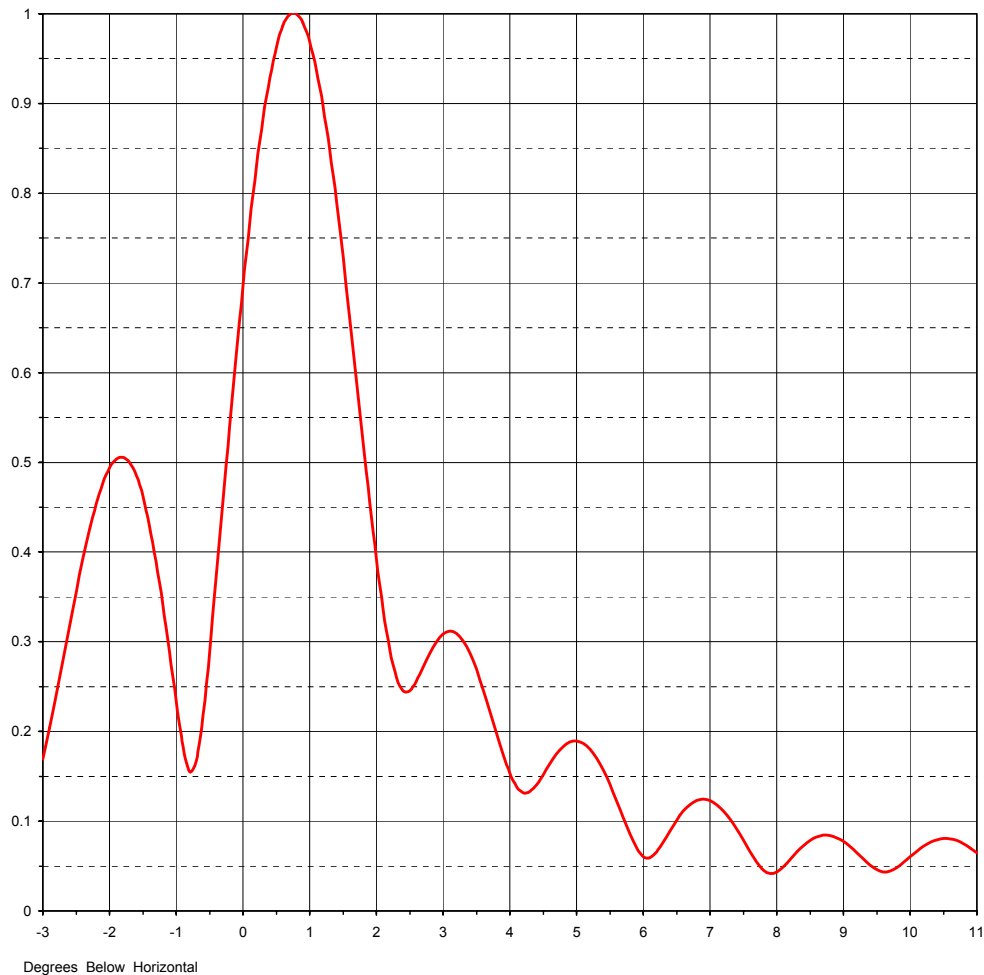


Figure 2A
Antenna Elevation Pattern - Detail
KRON-TV San Francisco, CA
Facility ID 65526
Ch. 38 1000 kW 512 m

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October, 2009

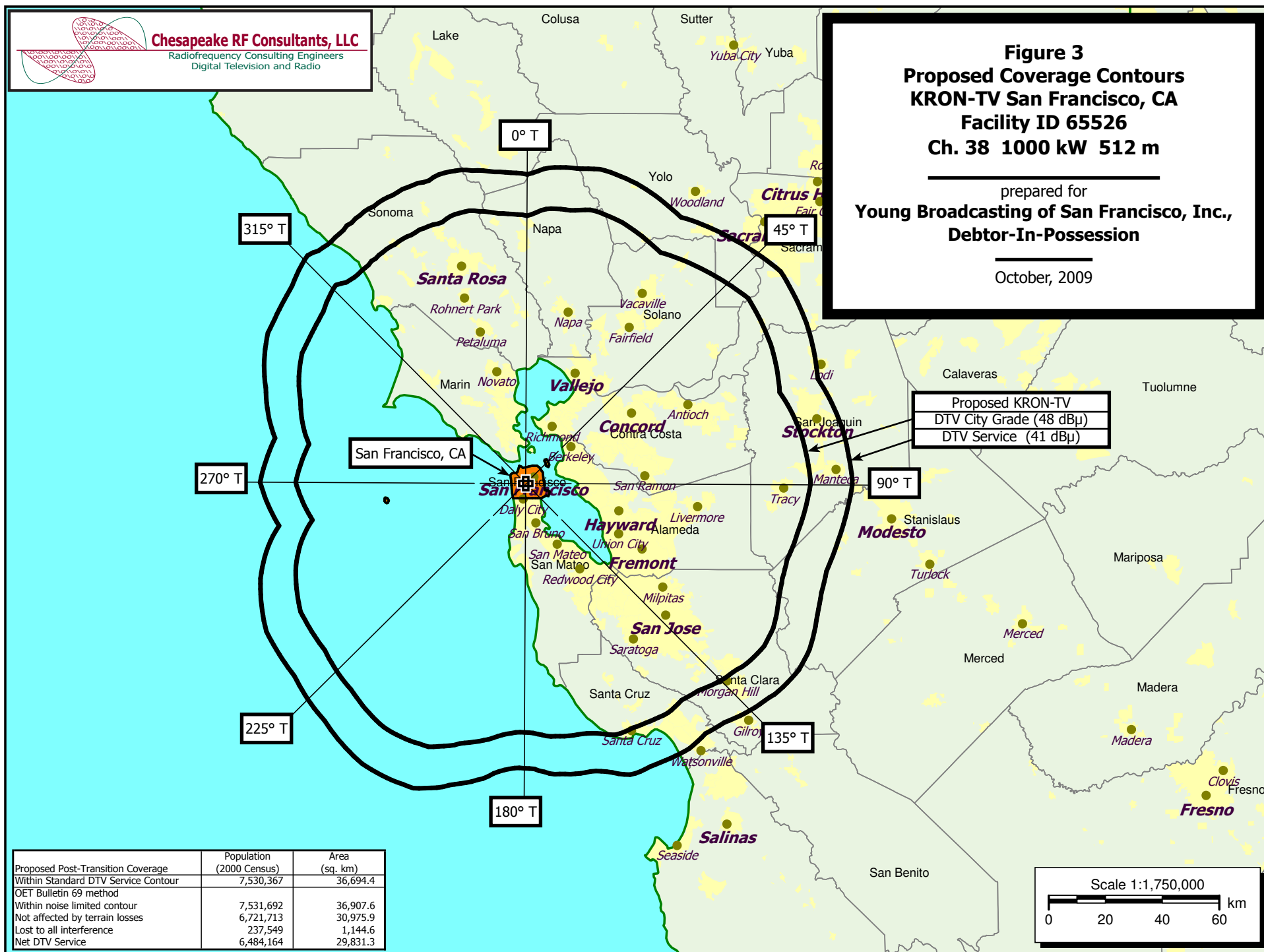


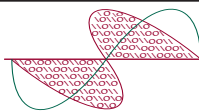
Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 3
Proposed Coverage Contours
KRON-TV San Francisco, CA
Facility ID 65526
Ch. 38 1000 kW 512 m

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October, 2009





Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 4
Maximum ERP per §73.622(f)
KRON-TV San Francisco, CA
Facility ID 65526
Ch. 38 1000 kW 512 m

prepared for
Young Broadcasting of San Francisco, Inc.,
Debtor-In-Possession

October, 2009

Proposed KRON-TV
DTV Service Contour 41 dBμ F(50,90)
Area: 36,694 sq. km

KGO-TV Ch. 7 San Francisco, CA
BLC DT-20090824ADG pending
DTV Service Contour 36 dBμ F(50,90)
Area: 41,539 sq. km

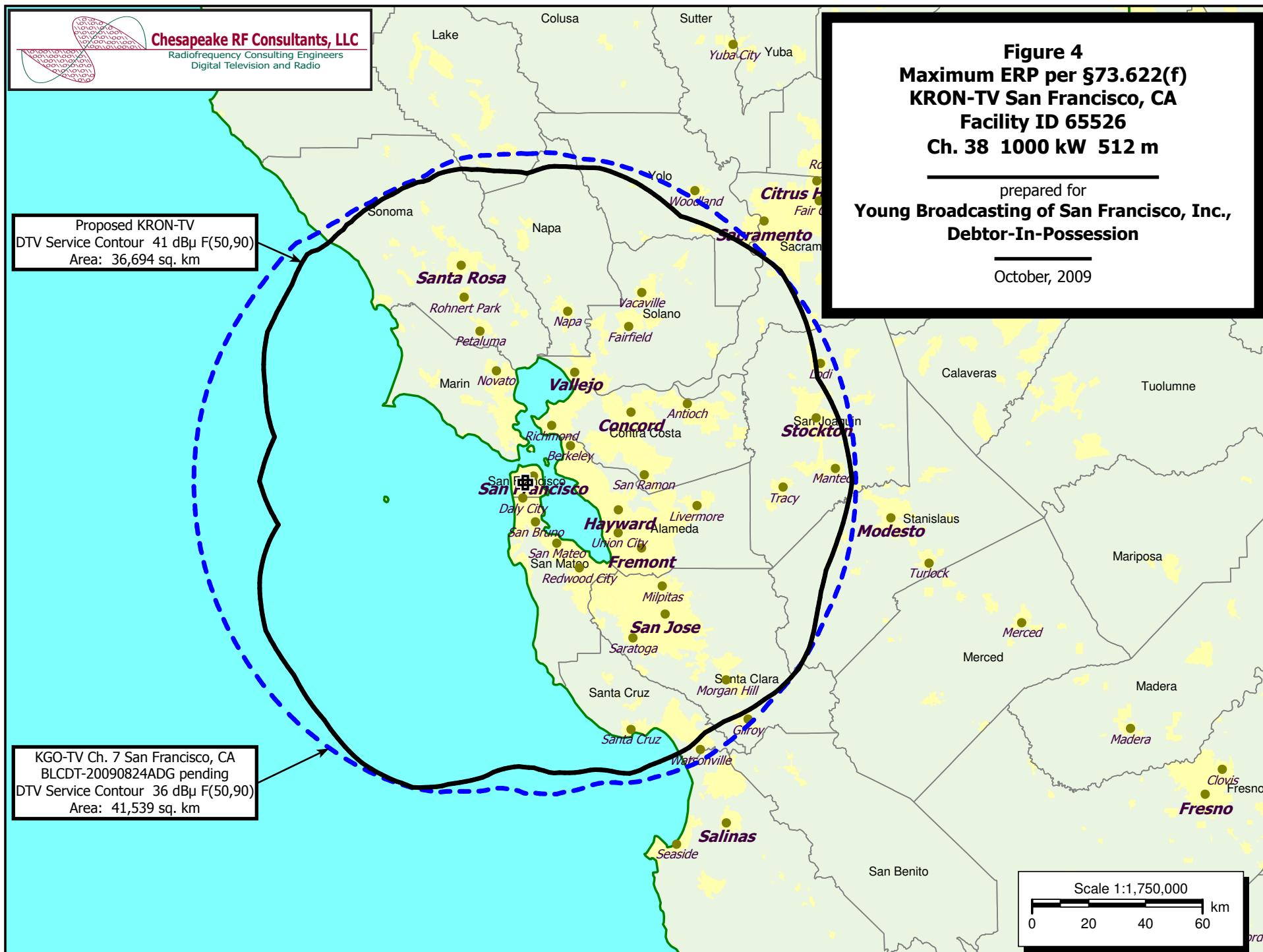


Table 1 KRON-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 1 of 9)

TW Census data selected 2000

Post Transition Data Base Selected /space/software/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-23-2009 Time: 16:58:47

Record Selected for Analysis

KRON-DT USERRECORD-01 SAN FRANCISCO CA US
Channel 38 ERP 1000. kW HAAT 517. m RCMSL 00543 m
Latitude 037-45-19 Longitude 0122-27-06
Status APP Zone 2 Border
Dir Antenna Make usr Model KRON-D38 Beam tilt N Ref Azimuth 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 does not meet maximum height/power limits

Channel 38 ERP = 1000.00 HAAT = 517.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	466.489	517.6	108.5
45.0	826.281	528.0	114.6
90.0	815.409	531.9	114.7
135.0	651.249	524.7	112.2
180.0	422.500	425.8	100.1
225.0	372.100	534.5	107.7
270.0	70.756	537.0	93.3
315.0	493.506	536.6	110.4

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Table 1 KRON-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 2 of 9)

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
38	KRON-DT	SAN FRANCISCO CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	KEZT-CA	SACRAMENTO CA	123.9	LIC	BLTTL	-19970918JA
38	KSEE	FRESNO CA	277.3	LIC	BMLCDT	-20080324AIQ
38	KSEE	FRESNO CA	277.3	PLN	DTVPLN	-DTVP1351
39	KCNS	SAN FRANCISCO CA	0.0	CP	BPCDT	-20080909ABW
39	KCNS	SAN FRANCISCO CA	0.0	PLN	DTVPLN	-DTVP1389
39	KCNS	SAN FRANCISCO CA	0.0	LIC	BLCDT	-20060221AES
42	KAXT-CA	SANTA CLARA - SAN JO CA	58.5	APP	BDISTTA	-20090629ADB
46	K46DR	LAKEPORT CA	102.6	APP	BSTA	-20061016ADK
46	K46DR	LAKEPORT CA	139.9	LIC	BLTT	-19941103IB

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	KEZT-CA	SACRAMENTO CA	BLTTL	-19970918JA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KBSV	CERES CA	118.0	CP MOD	BMPEDT	-20081002ABR
15	KBSV	CERES CA	121.4	PLN	DTVPLN	-DTVP0511
19	KOFY-TV	SAN FRANCISCO CA	123.9	LIC	BLCDT	-20000421ABF
19	KBWB	SAN FRANCISCO CA	123.9	PLN	DTVPLN	-DTVP0657
19	KOFY-TV	SAN FRANCISCO CA	123.9	CP MOD	BMPCDT	-20090603AGC
21	KMAX-TV	SACRAMENTO CA	36.3	CP	BPCDT	-20080620ABK
21	KMAX-TV	SACRAMENTO CA	33.5	PLN	DTVPLN	-DTVP0741
21	KMAX-TV	SACRAMENTO CA	33.5	LIC	BLCDT	-20041018ABT
22	K22FR	SACRAMENTO CA	17.4	LIC	BLTT	-20061204ADU
23	KRCB	COTATI CA	98.6	CP	BPEDT	-20080617AEI
23	KRCB	COTATI CA	98.6	PLN	DTVPLN	-DTVP0824
23	KRCB	COTATI CA	98.6	LIC	BLEDT	-20081107ACJ
23	KMUV-LP	MONTEREY CA	201.2	LIC	BLTTL	-20070402KPQ
23	K23DT	TAHOE CITY CA	160.9	LIC	BLTT	-19930927IB
25	KOVR	STOCKTON CA	36.3	LIC	BLCDT	-20050516ANE
25	KOVR	STOCKTON CA	36.3	PLN	DTVPLN	-DTVP0907
25	KOVR	STOCKTON CA	36.3	CP	BPCDT	-20080620ABM
26	KTFK-DT	STOCKTON CA	36.3	CP MOD	BMPCDT	-20080616ACI
26	KTFK-TV	STOCKTON CA	36.3	PLN	DTVPLN	-DTVP0939
27	KTSF	SAN FRANCISCO CA	128.6	LIC	BLCDT	-20050131AOD
27	KTSF	SAN FRANCISCO CA	128.6	PLN	DTVPLN	-DTVP0978
27	KTSF	SAN FRANCISCO CA	128.6	CP	BPCDT	-20080620ALV
30	KQED	SAN FRANCISCO CA	123.9	CP	BPEDT	-20080314ACI
30	KQED	SAN FRANCISCO CA	123.9	PLN	DTVPLN	-DTVP1093
30	KQED	SAN FRANCISCO CA	123.9	LIC	BLEDT	-20000601ADY
38	KRON-TV	SAN FRANCISCO CA	123.9	PLN	DTVPLN	-DTVP1353

Table 1 KRON-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 3 of 9)

38 KRON-DT SAN FRANCISCO CA 123.9 APP USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
38	KSEE	FRESNO CA	BMLCDT -20080324AIQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	KPXN-TV	SAN BERNARDINO CA	341.0	LIC	BLCDT -20050623AAG
38	KPXN	SAN BERNARDINO CA	341.0	PLN	DTVPLN -DTVPI352
38	KRON-TV	SAN FRANCISCO CA	277.3	PLN	DTVPLN -DTVPI353
38	KRON-DT	SAN FRANCISCO CA	277.3	APP	USERRECORD-01

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 2

Before Analysis

Results for: 38A CA FRESNO BMLCDT 20080324AIQ LIC

HAAT	601.0 m, ATV ERP	326.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1481444	32496.7		
not affected by terrain losses	1468385	28612.0		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	1012	445.0		
lost to ATV IX only	1012	445.0		
lost to all IX	1012	445.0		

Potential Interfering Stations Included in above Scenario 1

38A CA SAN FRANCISCO DTVPLN DTVPI353 PLN

After Analysis

Results for: 38A CA FRESNO BMLCDT 20080324AIQ LIC

HAAT	601.0 m, ATV ERP	326.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1481444	32496.7		
not affected by terrain losses	1468385	28612.0		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	1012	449.0		
lost to ATV IX only	1012	449.0		
lost to all IX	1012	449.0		

Potential Interfering Stations Included in above Scenario 1

38A CA SAN FRANCISCO USERRECORD01 APP

Percent new IX = 0.0000%

Table 1 KRON-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 4 of 9)

Worst case new IX 0.0000% Scenario 1

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
38	KSEE	FRESNO CA	DTVPLN -DTVPI351

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	KPXN-TV	SAN BERNARDINO CA	341.0	LIC	BLCDT -20050623AAG
38	KPXN	SAN BERNARDINO CA	341.0	PLN	DTVPLN -DTVPI352
38	KRON-TV	SAN FRANCISCO CA	277.3	PLN	DTVPLN -DTVPI353
38	KRON-DT	SAN FRANCISCO CA	277.3	APP	USERRECORD-01

Total scenarios = 1

Result key: 2

Scenario 1 Affected station 3

Before Analysis

Results for: 38A CA FRESNO DTVPLN DTVPI351 PLN

HAAT	601.0 m, ATV ERP	326.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1481198	32468.6		
not affected by terrain losses	1467516	28567.9		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	1291	429.0		
lost to ATV IX only	1291	429.0		
lost to all IX	1291	429.0		

Potential Interfering Stations Included in above Scenario 1

38A CA SAN FRANCISCO DTVPLN DTVPI353 PLN

After Analysis

Results for: 38A CA FRESNO DTVPLN DTVPI351 PLN

HAAT	601.0 m, ATV ERP	326.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1481198	32468.6		
not affected by terrain losses	1467516	28567.9		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	1291	437.0		
lost to ATV IX only	1291	437.0		
lost to all IX	1291	437.0		

Potential Interfering Stations Included in above Scenario 1

38A CA SAN FRANCISCO USERRECORD01 APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

Table 1 KRON-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 9)

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	KCNS	SAN FRANCISCO CA	BPCDT	-20080909ABW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KRON-TV	SAN FRANCISCO CA	0.0	PLN	DTVPLN	-DTVPl353
40	KTXL	SACRAMENTO CA	100.8	CP MOD	BMPCDT	-20080620ADJ
40	KTXL	SACRAMENTO CA	100.8	PLN	DTVPLN	-DTVPl421
38	KRON-DT	SAN FRANCISCO CA	0.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	KCNS	SAN FRANCISCO CA	DTVPLN	-DTVPl389

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KRON-TV	SAN FRANCISCO CA	0.0	PLN	DTVPLN	-DTVPl353
40	KTXL	SACRAMENTO CA	100.8	CP MOD	BMPCDT	-20080620ADJ
40	KTXL	SACRAMENTO CA	100.8	PLN	DTVPLN	-DTVPl421
38	KRON-DT	SAN FRANCISCO CA	0.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 5
Before Analysis

Results for: 39A CA SAN FRANCISCO	DTVPLN	DTVPl389	PLN
HAAT 428.0 m, ATV ERP 1000.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	7305435	31337.1	
not affected by terrain losses	6527318	25936.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	311065	2144.3	
lost to ATV IX only	311065	2144.3	
lost to all IX	311065	2144.3	

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO BMPCDT 20080620ADJ CP

After Analysis

Results for: 39A CA SAN FRANCISCO	DTVPLN	DTVPl389	PLN
HAAT 428.0 m, ATV ERP 1000.0 kW			
	POPULATION	AREA (sq km)	

Table 1 KRON-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 9)

within Noise Limited Contour	7305435	31337.1
not affected by terrain losses	6527318	25936.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	311227	2200.5
lost to ATV IX only	311227	2200.5
lost to all IX	311227	2200.5

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO BMPCDT 20080620ADJ CP
38A CA SAN FRANCISCO USERRECORD01 APP

Percent new IX = 0.0026%

Worst case new IX 0.0026% Scenario 1

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	KCNS	SAN FRANCISCO CA	BLCDT	-20060221AES

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KRON-TV	SAN FRANCISCO CA	0.0	PLN	DTVPLN	-DTVPl353
40	KTXL	SACRAMENTO CA	100.8	CP MOD	BMPCDT	-20080620ADJ
40	KTXL	SACRAMENTO CA	100.8	PLN	DTVPLN	-DTVPl421
38	KRON-DT	SAN FRANCISCO CA	0.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5
Scenario 1 Affected station 6
Before Analysis

Results for: 39A CA SAN FRANCISCO	BLCDT	20060221AES	LIC
HAAT 428.0 m, ATV ERP 1000.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	7305435	31337.1	
not affected by terrain losses	6527318	25936.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	311065	2144.3	
lost to ATV IX only	311065	2144.3	
lost to all IX	311065	2144.3	

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO BMPCDT 20080620ADJ CP

After Analysis

Results for: 39A CA SAN FRANCISCO	BLCDT	20060221AES	LIC
HAAT 428.0 m, ATV ERP 1000.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	7305435	31337.1	
not affected by terrain losses	6527318	25936.2	

Table 1 KRON-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 7 of 9)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	311227	2200.5
lost to ATV IX only	311227	2200.5
lost to all IX	311227	2200.5

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO	BMPCDT	20080620ADJ	CP
38A CA SAN FRANCISCO	USERRECORD01		APP

Percent new IX = 0.0026%

Worst case new IX 0.0026% Scenario 1

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	KAXT-CA	SANTA CLARA - SAN JO CA	BDISTTA -20090629ADB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
34	KFSF-DT	VALLEJO CA	58.5	CP	BPCDT -20081031AAE
34	KFSF-TV	VALLEJO CA	58.5	PLN	DTVPLN -DTVP1239
34	KFSF-DT	VALLEJO CA	58.5	LIC	BLCDT -20030620ABV
35	KCRA-TV	SACRAMENTO CA	89.3	LIC	BLCDT -20040122ADR
35	KCRA-TV	SACRAMENTO CA	91.5	PLN	DTVPLN -DTVP1276
35	KCRA-TV	SACRAMENTO CA	91.5	CP	BPCDT -20080208AEM
38	KRON-TV	SAN FRANCISCO CA	58.5	PLN	DTVPLN -DTVP1353
39	KCNS	SAN FRANCISCO CA	58.5	CP	BPCDT -20080909ABW
39	KCNS	SAN FRANCISCO CA	58.5	PLN	DTVPLN -DTVP1389
39	KCNS	SAN FRANCISCO CA	58.5	LIC	BLCDT -20060221AES
40	KTXL	SACRAMENTO CA	91.7	CP MOD	BMPCDT -20080620ADJ
40	KTXL	SACRAMENTO CA	91.7	PLN	DTVPLN -DTVP1421
41	KKPX-TV	SAN JOSE CA	53.8	LIC	BLCDT -20021108ABD
41	KKPX	SAN JOSE CA	53.8	PLN	DTVPLN -DTVP1458
42	K42HE	UKIAH CA	184.9	LIC	BLTTL -20081222ABC
43	NEW	SACRAMENTO CA	122.4	APP	BNPEDT -20030922AFV
43	KCSM-TV	SAN MATEO CA	58.5	LIC	BLEDT -20030822AFZ
43	KCSM-TV	SAN MATEO CA	58.5	PLN	DTVPLN -DTVP1527
43	KCSM-TV	SAN MATEO CA	58.5	CP	BPEDT -20080825AAV
44	KTVU	OAKLAND CA	58.5	APP	BMPCDT -20080619AIJ
44	KTVU	OAKLAND CA	58.5	PLN	DTVPLN -DTVP1564
44	KTVU	OAKLAND CA	58.5	CP	BPCDT -20080408AEQ
45	KBCW	SAN FRANCISCO CA	58.5	LIC	BLCDT -20020709AAQ
45	KBCW	SAN FRANCISCO CA	58.5	PLN	DTVPLN -DTVP1600
45	KBCW	SAN FRANCISCO CA	58.5	CP	BPCDT -20080603AAH
46	KQCA	STOCKTON CA	91.5	LIC	BLCDT -20060623AAM
46	KQCA	STOCKTON CA	91.5	PLN	DTVPLN -DTVP1636
49	KSTS	SAN JOSE CA	0.0	LIC	BLCDT -20030507AAT
49	KSTS	SAN JOSE CA	0.0	PLN	DTVPLN -DTVP1728
50	KTEH	SAN JOSE CA	1.3	CP	BPEDT -20080620AKJ
50	KTEH	SAN JOSE CA	1.3	PLN	DTVPLN -DTVP1761
50	KTEH	SAN JOSE CA	1.3	LIC	BLEDT -20040826AAR
38	KRON-DT	SAN FRANCISCO CA	58.5	APP	USERRECORD-01

Proposal causes no interference

Table 1 KRON-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 8 of 9)

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
46	K46DR	LAKEPORT CA	BSTA -20061016ADK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	KRON-TV	SAN FRANCISCO CA	102.6	PLN	DTVPLN -DTVP1353
39	KCNS	SAN FRANCISCO CA	102.6	CP	BPCDT -20080909ABW
39	KCNS	SAN FRANCISCO CA	102.6	PLN	DTVPLN -DTVP1389
39	KCNS	SAN FRANCISCO CA	102.6	LIC	BLCDT -20060221AES
43	NEW	SACRAMENTO CA	129.6	APP	BNPEDT -20030922AFV
43	KCSM-TV	SAN MATEO CA	102.6	LIC	BLEDT -20030822AFZ
43	KCSM-TV	SAN MATEO CA	102.6	PLN	DTVPLN -DTVP1527
43	KCSM-TV	SAN MATEO CA	102.6	CP	BPEDT -20080825AAV
44	KTVU	OAKLAND CA	102.6	APP	BMPCDT -20080619AIJ
44	KTVU	OAKLAND CA	102.6	PLN	DTVPLN -DTVP1564
44	KTVU	OAKLAND CA	102.6	CP	BPCDT -20080408AEQ
45	KBCW	SAN FRANCISCO CA	102.6	LIC	BLCDT -20020709AAQ
45	KBCW	SAN FRANCISCO CA	102.6	PLN	DTVPLN -DTVP1600
45	KBCW	SAN FRANCISCO CA	102.6	CP	BPCDT -20080603AAH
46	KQCA	STOCKTON CA	108.6	LIC	BLCDT -20060623AAM
46	KQCA	STOCKTON CA	108.6	PLN	DTVPLN -DTVP1636
46	KRNS-CA	RENO, ETC NV	247.6	LIC	BLTTA -20051114AFU
47	KTLN-TV	NOVATO CA	57.7	LIC	BLCDT -20080228ACB
47	KTLN-TV	NOVATO CA	57.7	PLN	DTVPLN -DTVP1665
48	KSPX-TV	SACRAMENTO CA	108.6	LIC	BLCDT -20050110ABB
48	KSPX	SACRAMENTO CA	108.6	PLN	DTVPLN -DTVP1698
49	KSTS	SAN JOSE CA	145.8	LIC	BLCDT -20030507AAT
49	KSTS	SAN JOSE CA	145.8	PLN	DTVPLN -DTVP1728
38	KRON-DT	SAN FRANCISCO CA	102.6	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
46	K46DR	LAKEPORT CA	BLTT -19941103IB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	KRON-TV	SAN FRANCISCO CA	139.9	PLN	DTVPLN -DTVP1353
39	KCNS	SAN FRANCISCO CA	139.9	CP	BPCDT -20080909ABW
39	KCNS	SAN FRANCISCO CA	139.9	PLN	DTVPLN -DTVP1389
39	KCNS	SAN FRANCISCO CA	139.9	LIC	BLCDT -20060221AES
43	KHSL-TV	CHICO CA	140.6	CP	BPCDT -20070124AKD
43	KHSL-TV	CHICO CA	140.6	PLN	DTVPLN -DTVP1524
43	KHSL-TV	CHICO CA	140.6	LIC	BLCDT -20060315AEZ
43	KCSM-TV	SAN MATEO CA	139.9	LIC	BLEDT -20030822AFZ

Table 1 KRON-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 9)

43	KCSM-TV	SAN MATEO	CA	139.9	PLN	DTVPLN	-DTVP1527
43	KCSM-TV	SAN MATEO	CA	139.9	CP	BPEDT	-20080825AAV
44	KTVU	OAKLAND	CA	139.9	APP	BMPCDT	-20080619AIJ
44	KTVU	OAKLAND	CA	139.9	PLN	DTVPLN	-DTVP1564
44	KTVU	OAKLAND	CA	139.9	CP	BPCDT	-20080408AEQ
45	K45AH	UKIAH	CA	31.5	LIC	BLTT	-19830125IK
46	K46HI	REDDING	CA	186.3	LIC	BLTTL	-20040329ABN
46	KQCA	STOCKTON	CA	137.1	LIC	BLCDT	-20060623AAM
46	KQCA	STOCKTON	CA	137.1	PLN	DTVPLN	-DTVP1636
46	KRNS-CA	RENO, ETC	NV	251.2	LIC	BLTTA	-20051114AFU
47	KTLN-TV	NOVATO	CA	94.5	LIC	BLCDT	-20080228ACB
47	KTLN-TV	NOVATO	CA	94.5	PLN	DTVPLN	-DTVP1665
47	K47AL	UKIAH	CA	31.5	LIC	BLTTL	-19830223IB
48	KSPX-TV	SACRAMENTO	CA	137.1	LIC	BLCDT	-20050110ABB
48	KSPX	SACRAMENTO	CA	137.1	PLN	DTVPLN	-DTVP1698
38	KRON-DT	SAN FRANCISCO	CA	139.9	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 10

Analysis of current record			
Channel	Call	City/State	Application Ref. No.
38	KRON-DT	SAN FRANCISCO CA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	KSEE	FRESNO CA	277.3	LIC	BMLCDT -20080324AIQ
38	KSEE	FRESNO CA	277.3	PLN	DTVPLN -DTVP1351
39	KCNS	SAN FRANCISCO CA	0.0	CP	BPCDT -20080909ABW
39	KCNS	SAN FRANCISCO CA	0.0	PLN	DTVPLN -DTVP1389
39	KCNS	SAN FRANCISCO CA	0.0	LIC	BLCDT -20060221AES

Total scenarios = 2

Result key: 7
Scenario 1 Affected station 10
Before Analysis

Results for: 38A CA SAN FRANCISCO USERRECORD01 APP
HAAT 517.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7531692	36907.6
not affected by terrain losses	6721713	30975.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	237549	1144.6
lost to ATV IX only	237549	1144.6
lost to all IX	237549	1144.6

Potential Interfering Stations Included in above Scenario 1

38A CA FRESNO BMLCDT 20080324AIQ LIC

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

SECTION III-D - DTV Engineering	
Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.	
<p>Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.</p> <p>Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.</p>	
1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input checked="" type="radio"/> Yes <input type="radio"/> No

SECTION III-D - DTV Engineering	
TECHNICAL SPECIFICATIONS	
Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.	
TECH BOX	
1.	Channel Number: DTV 38 Analog TV, if any
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 37 Minutes 45 Seconds 19 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 122 Minutes 27 Seconds 6 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1001289 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 254.2 meters
6.	Overall Tower Height Above Ground Level: 297.7 meters
7.	Height of Radiation Center Above Ground Level: 288.4 meters
8.	Height of Radiation Center Above Average Terrain : 511.7 meters
9.	Maximum Effective Radiated Power (average power): 1000 kW

10.	<p>Antenna Specifications:</p> <p>a. Manufacturer DIE Model TUM-C5SP-14/60H-2-T-R</p> <p>b. Electrical Beam Tilt: 0.75 degrees <input type="checkbox"/> Not Applicable</p> <p>c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable</p> <p>Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 43]</p> <p>d. Polarization: <input type="radio"/> Horizontal <input type="radio"/> Circular <input checked="" type="radio"/> Elliptical</p> <p>e. Directional Antenna Relative Field Values: <input type="checkbox"/> Not applicable (Nondirectional)</p> <p>[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]</p> <div style="text-align: center;"><p>10e. Directional Antenna Relative Field Values</p><p>[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]</p></div> <table border="1"><tr><td colspan="12">e. Directional Antenna Relative Field Values:</td></tr><tr><td colspan="12">Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation</td></tr><tr><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td><td>Degrees</td><td>Value</td></tr><tr><td>0</td><td>0.683</td><td>10</td><td>0.836</td><td>20</td><td>0.791</td><td>30</td><td>0.647</td><td>40</td><td>0.82</td><td>50</td><td>0.998</td></tr><tr><td>60</td><td>0.838</td><td>70</td><td>0.647</td><td>80</td><td>0.811</td><td>90</td><td>0.903</td><td>100</td><td>0.757</td><td>110</td><td>0.74</td></tr><tr><td>120</td><td>0.954</td><td>130</td><td>0.928</td><td>140</td><td>0.686</td><td>150</td><td>0.738</td><td>160</td><td>0.878</td><td>170</td><td>0.763</td></tr><tr><td>180</td><td>0.65</td><td>190</td><td>0.854</td><td>200</td><td>1</td><td>210</td><td>0.903</td><td>220</td><td>0.675</td><td>230</td><td>0.545</td></tr><tr><td>240</td><td>0.521</td><td>250</td><td>0.372</td><td>260</td><td>0.191</td><td>270</td><td>0.266</td><td>280</td><td>0.21</td><td>290</td><td>0.341</td></tr><tr><td>300</td><td>0.535</td><td>310</td><td>0.615</td><td>320</td><td>0.79</td><td>330</td><td>0.961</td><td>340</td><td>0.973</td><td>350</td><td>0.764</td></tr><tr><td colspan="2">Additional Azimuths</td><td>13</td><td>0.849</td><td>89</td><td>0.905</td><td>124</td><td>0.987</td><td>335</td><td>0.998</td><td></td><td></td></tr></table> <p style="text-align: center;"><u>Relative Field Polar Plot</u></p>	e. Directional Antenna Relative Field Values:												Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation												Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	0	0.683	10	0.836	20	0.791	30	0.647	40	0.82	50	0.998	60	0.838	70	0.647	80	0.811	90	0.903	100	0.757	110	0.74	120	0.954	130	0.928	140	0.686	150	0.738	160	0.878	170	0.763	180	0.65	190	0.854	200	1	210	0.903	220	0.675	230	0.545	240	0.521	250	0.372	260	0.191	270	0.266	280	0.21	290	0.341	300	0.535	310	0.615	320	0.79	330	0.961	340	0.973	350	0.764	Additional Azimuths		13	0.849	89	0.905	124	0.987	335	0.998		
e. Directional Antenna Relative Field Values:																																																																																																																									
Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation																																																																																																																									
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240	0.521	250	0.372	260	0.191	270	0.266	280	0.21	290	0.341																																																																																																														
300	0.535	310	0.615	320	0.79	330	0.961	340	0.973	350	0.764																																																																																																														
Additional Azimuths		13	0.849	89	0.905	124	0.987	335	0.998																																																																																																																
	<p>If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. Exhibit required. [Exhibit 44]</p>																																																																																																																								
11.	<p>Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if Certification Checklist Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616? <input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 45]</p> <p>If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.</p>																																																																																																																								
12.	<p>If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if Certification Checklist item 3 is answered "No.") [Exhibit 46]</p>																																																																																																																								
13.	<p>Environmental Protection Act. Submit in an Exhibit the following: [Exhibit 47]</p> <p>If Certification Checklist Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.</p> <p>By checking "Yes" to Certification Checklist Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p> <p>If Certification Checklist Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.</p>																																																																																																																								
<p>PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.</p>																																																																																																																									

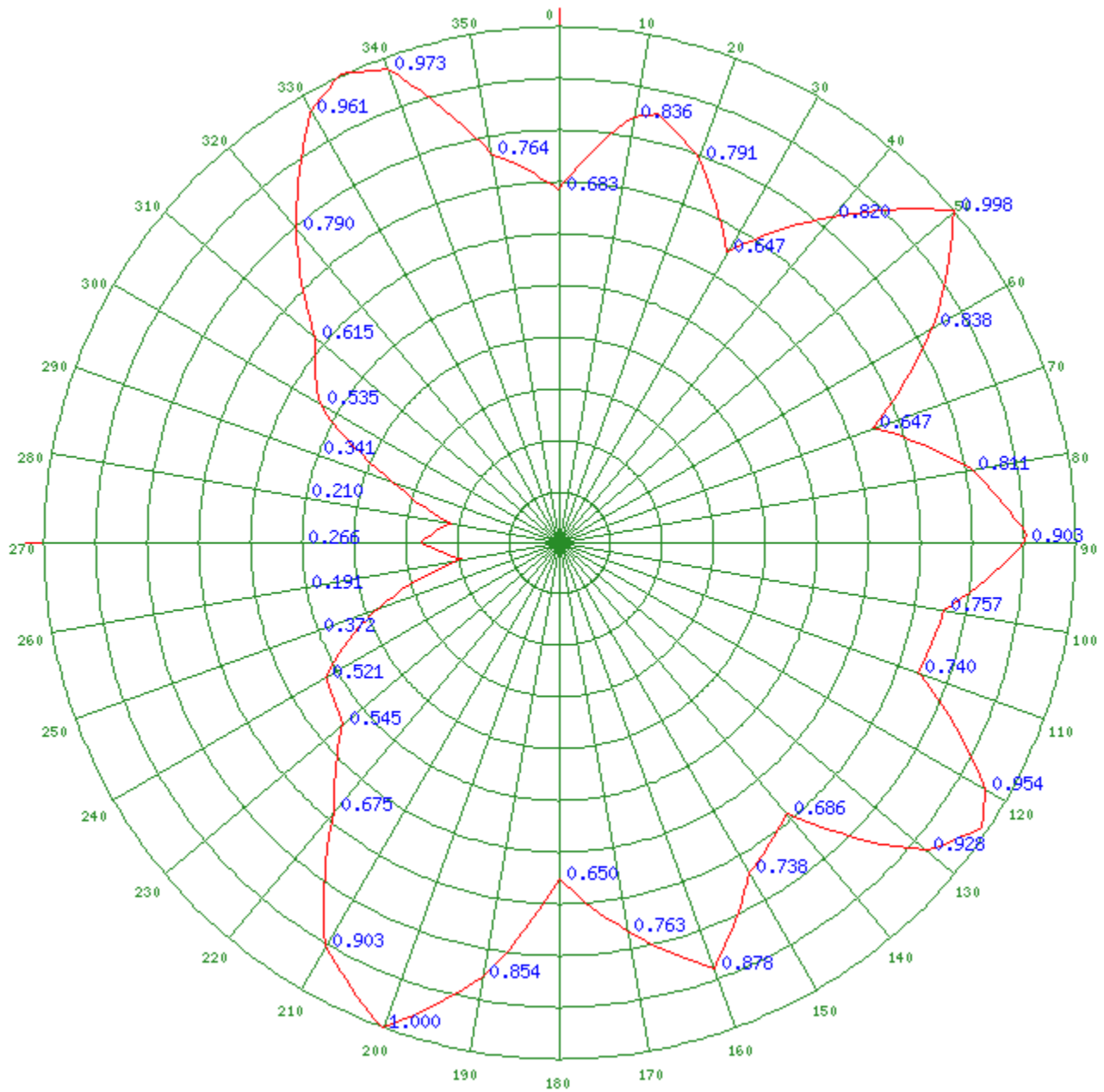
SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 10/26/2009	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values
because intermediate azimuths are interpolated between entered azimuths.

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