

ENGINEERING EXHIBIT

Application for Low Power Television Digital Companion Construction Permit

prepared for

Mirage Media 2, LLC
KOTR-LD Gonzales, CA
Facility ID 167425
Ch. 41 (digital) 15 kW

Mirage Media 2, LLC (“*Mirage*”) is the licensee of Low Power Television station KOTR-LP, Channel 2, Gonzales, CA, Facility ID 2871 (BLTVL-20070402KIR). *Mirage* is the winning bidder in Auction 85 for Channel 41 as a digital companion for KOTR-LP. As required by the FCC Public Notice¹ announcing the closing of Auction 85, the instant application is filed to request a Construction Permit for the proposed digital companion facility. *Mirage’s* underlying digital companion channel proposal corresponds to file number BSFDTL-20060630AZK and Facility ID 167425.

The proposed antenna system will be side-mounted on the existing antenna support structure as the licensed KOTR-LP analog facility. The tower structure is not required to be registered with the FCC, as it is an existing structure of less than 61 meters overall height above ground and there are no known landing areas within 8 km of the site. No marking or lighting specifications are presently required. Since no change to the structure’s overall height is proposed, FAA notification and commensurate FCC registration are not necessary. The structure was previously registered (ASR# 1051048) however that registration was terminated since registration was not required (ASR reference 507986). The tower location and elevation data specified herein correspond to the terminated ASR and are slightly revised from those provided in the underlying window application (one second difference in geographic coordinates and three meters difference in site elevation).

¹*Auction of LPTV and TV Translator Digital Companion Channels Closes, Winning Bidders Announced for Auction 85,*” Public Notice, DA 08-2482, released November 14, 2008.

The proposed antenna is a Dielectric model TLP8-M, an “off the shelf” directional antenna (see **Figure 1** for azimuthal pattern). The proposed facility will operate on Channel 41 using a “simple” out of channel emission mask. **Figure 2** depicts the coverage contours of the licensed analog facility and the proposed digital companion facility (identical to the June 2006 “window” facility parameters, except for minor site coordinate and elevation adjustments). The use of the same transmitter site and the service area overlap shown demonstrates compliance with §73.3572.

A detailed interference study per OET Bulletin 69² shows that the proposal complies with the Commission’s interference protection requirements toward all NTSC, DTV, television translator, LPTV, and Class A stations. The results, summarized in **Table 1**, show that any new interference does not exceed the Commission’s interference limits in §74.793 (0.5 percent to full power and Class A stations, and 2.0 percent to secondary stations). The digital companion channel application for Channel 41 at Monterey, CA (BSFDTL-20060630CFD) was not considered, as *Mirage* was the auction winner of the MX group which also contained BSFDTL-20060630CFD.

The nearest FCC monitoring station is 132.6 km distant at Livermore, CA. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. 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 proposed transmitting antenna will be installed on an existing antenna support structure. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. Therefore, it is

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 cell size of 1 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.

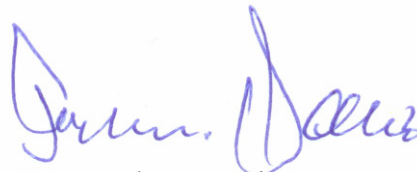
believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The transmitting location is on Mount Toro, west-northwest of Gonzales. There are various other television and FM radio transmitting facilities at this site area. *Mirage* will participate in a radiofrequency ("RF") electromagnetic field exposure safety program, along with other broadcasters and FCC licensees that utilize the Mount Toro antenna site area. Following construction of the proposed facility, *Mirage* will conduct RF exposure measurements (and/or detailed calculations) to evaluate the level of RF exposure resulting from the KOTR-LD digital facility. As necessary, based on these results and considering all emitters, appropriate exposure abatement procedures will be established and followed, in order to comply with the Commission's exposure limits. Such abatement procedures may involve the restriction of access to certain areas and/or facility modifications to reduce RF levels.

Considering the post-construction measurement and an appropriate abatement program, the general public and workers will not be exposed to RF levels in excess of the Commission's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, authorized personnel will be trained and/or supervised as necessary for access to any "controlled" areas. *Mirage* will coordinate exposure procedures with all pertinent stations.

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.
November 25, 2008

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

List of Attachments

Figure 1	Antenna Directional Pattern
Figure 2	Coverage Contour Comparison
Table 1	Interference Analysis Results Summary
Form 346	Saved Version of Engineering Sections from FCC Form at Time of Upload

This material was entered November 25, 2008 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.

Azimuth Pattern Relative Field
True North

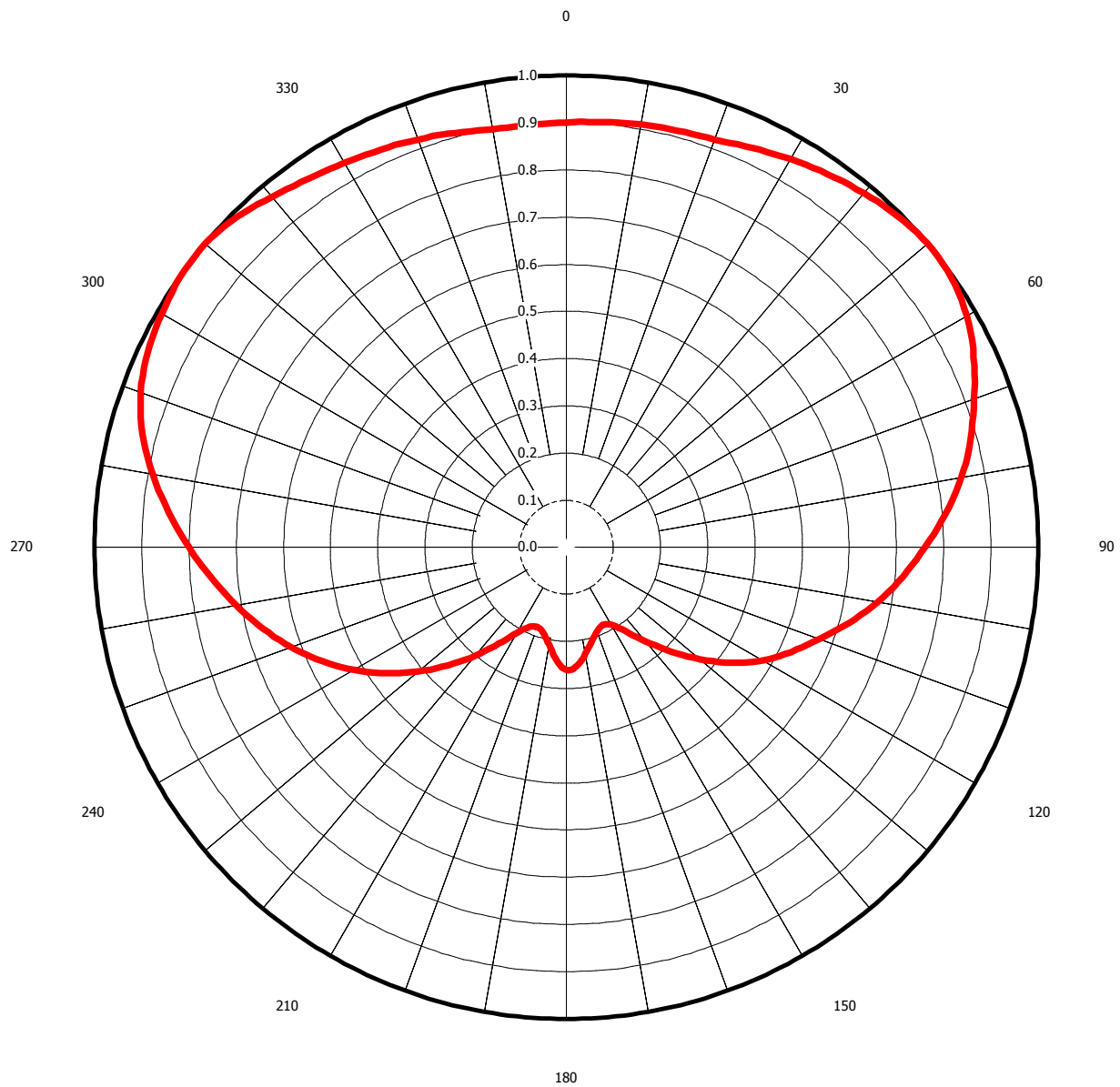


Figure 1
Antenna Directional Pattern
KOTR-LD Gonzales, CA
Facility ID 167425
Ch. 41 (digital) 15 kW

prepared for
Mirage Media 2, LLC

November, 2008

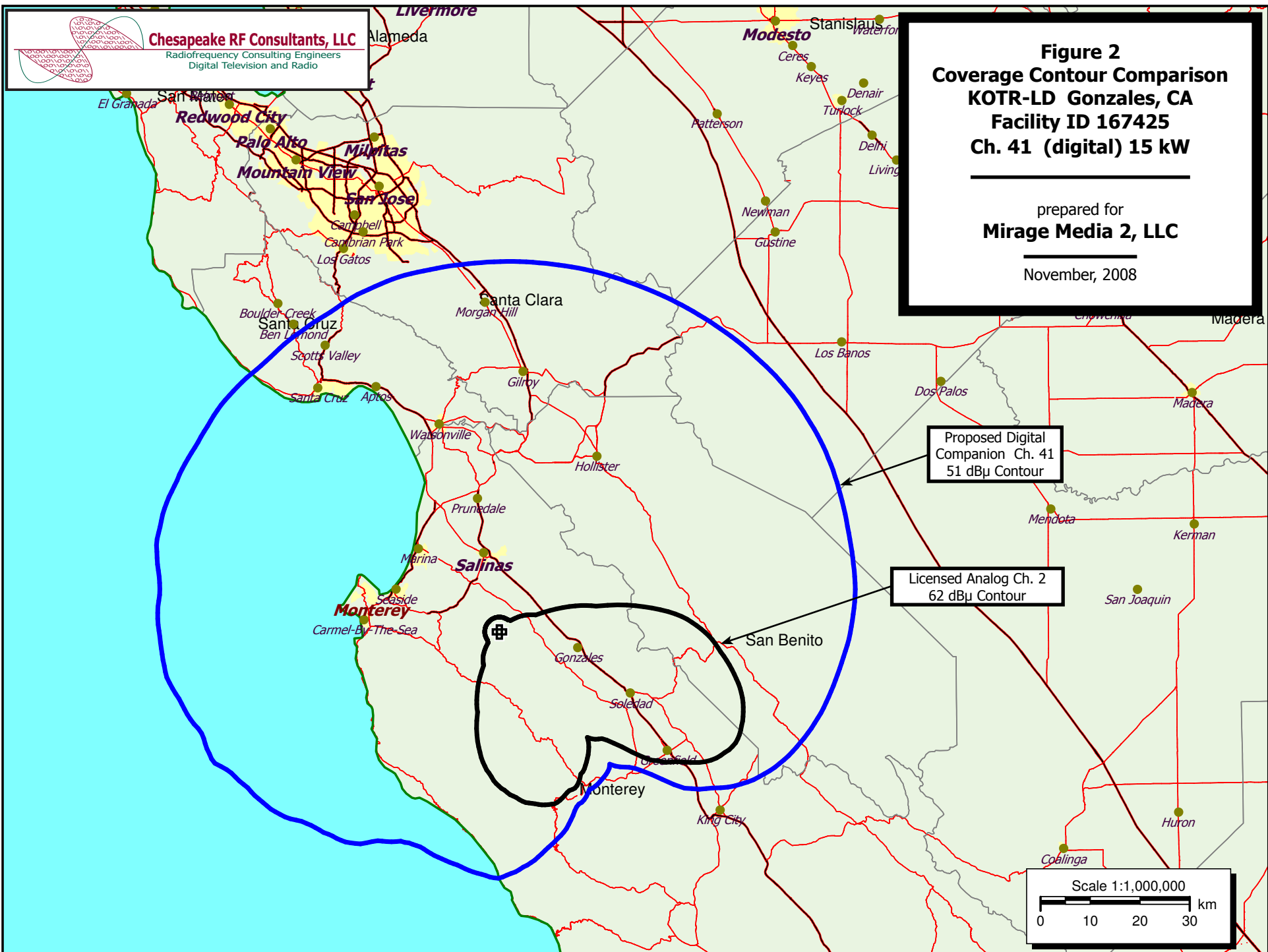


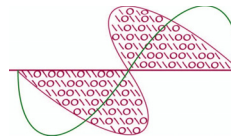
Table 1

Interference Analysis Results Summary

prepared for

Mirage Media 2, LLC

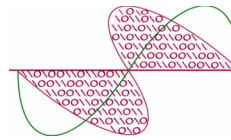
KOTR-LD Gonzales, CA

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

Ch.	Call	City/State	Dist	Status	Application Ref. No.	---Population (1990 Census)---	
			(km)			Baseline	New Interference
27	KEXT-CA	MODESTO CA	107.7	LIC	BLTTA-20030123ACJ	---	none
27	KYMB-LP	MONTEREY CA	15.2	LIC	BLTT-20051118AGH	---	none
33	KDJT-CA	SALINAS CA	26.8	APP	BPTTA-20080804ABR	---	none
33	KDJT-CA	SALINAS-MONTEREY, ET CA	57.5	LIC	BLTTL-19931014JE	---	none
34	KACA-LP	MODESTO CA	137.9	LIC	BLTTL-20080813AEP	---	none
38	K38JP	SALINAS CA	0.7	LIC	BLTTL-20071030ABG	---	none
40	KSCZ-LP	GREENFIELD CA	89.2	APP	BDISTTL-20051028ACT	---	none
40	KTXL	SACRAMENTO CA	193.3	LIC	BLCT-19851112KI	---	none
40	KMMC-LP	SAN FRANCISCO CA	147.0	APP	BPTTL-20080801AOK	---	none
40	KMMC-LP	SAN FRANCISCO CA	147.0	CP	BDFCDTL-20080801AOG	---	none
40	KMMC-LP	SAN FRANCISCO CA	147.0	LIC	BLTTL-20040812ABR	---	none
41	K41JN	BAKERSFIELD CA	288.2	CP	BNPTTL-20000831AUF	---	none
41	K41JN	CALIENTE CA	297.4	CP MOD	BMPPTL-20080219BJQ	---	none
41	K41JN	CALIENTE CA	288.3	CP MOD	BMPPTL-20070709AGG	---	none
41	KKPM-LD	CHICO CA	297.3	APP	BDISDTL-20070305ACT	---	none
41	KKPM-LD	CHICO CA	297.3	CP	BDISDTL-20070411ACU	---	none
41	KTFF-LP	FRESNO CA	203.7	LIC	BLTTL-20020722AAJ	---	none
41	KTFF-LP	FRESNO CA	203.7	CP	BDFCDTL-20080801BCN	709,494	246 (0.03%)
41	DK41BL	GREENVILLE CA	403.0	LIC	BLTT-19871014IC	---	none
41	NEW	MONTEREY CA	26.7	APP	BSFDTL-20060630CFD	MX app, not considered	
41	K41GO	RIDGECREST CA	372.9	CP	BDFCDTT-20051004ADL	---	none
41	K41GO	RIDGECREST CA	372.9	LIC	BLTT-20040212ADO	---	none
41	K41GO	RIDGECREST CA	372.9	CP	BPTT-20041216AAS	---	none
41	KKPX	SAN JOSE CA	147.0	LIC	BLCDT-20021108ABD	4,462,267	20,221 (0.45%)
41	KMMA-CA	SAN LUIS OBISPO CA	156.7	CP	BDISTTA-20080804ACH	---	none
41	NEW	SAN LUIS OBISPO CA	156.7	APP	BSFDTL-20060630CKJ	---	none
41	KVMM-CA	SANTA BARBARA CA	289.4	CP	BDFCDTA-20080804ACQ	---	none
41	KVMM-CA	SANTA BARBARA CA	289.4	LIC	BLTTA-20040625AAH	---	none
41	NEW	SANTA MARIA CA	204.2	APP	BSFDTL-20060630AWX	---	none
41	K41AF	UKIAH CA	314.9	LIC	BLTT-19830125IM	---	none
41	KNVV-LP	RENO NV	344.0	LIC	BLTTL-20010829ABA	---	none

Table 1**Interference Analysis Results Summary**

(page 2 of 2)

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

<u>Ch.</u>	<u>Call</u>	<u>City/State</u>	<u>Dist</u> <u>(km)</u>	<u>Status</u>	<u>Application Ref. No.</u>	<u>---Population (1990 Census)---</u>	
						<u>Baseline</u>	<u>New Interference</u>
42	KSCZ-LP	COALINGA CA	111.8	LIC	BLTT-19950912IC	---	none
42	KTNC-TV	CONCORD CA	152.9	LIC	BLCT-19830630KF	---	none
42	NEW	FRESNO CA	203.7	APP	BSFDTL-20060630BPW	---	none
42	KBKF-LD	GLEN ARBOR CA	80.8	CP MOD	BMPDTL-20070927AJO	2,132,545	0 (0.00%)
42	KSBO-CA	SAN LUIS OBISPO CA	156.7	LIC	BLTTL-19980902JA	---	none
42	KAXT-LD	SANTA CLARA-SAN JOSE CA	147	CP	BDCCDTL-20060928AHY	---	none
43	NEW	GLEN ARBOR CA	71.6	APP	BNPTTL-20000831CGG	---	none
43	KMCE-LP	MONTEREY CA	26.7	LIC	BLTTL-20030711ABL	---	none
44	K49EO	MODESTO CA	137.9	CP MOD	BMPPT-20050420ABE	---	none
44	K44DN	PASO ROBLES CA	126.6	LIC	BLTT-19931026JM	---	none
48	KSTS	SAN JOSE CA	109.5	APP	BPCT-20001215ABL	---	none
48	KSTS	SAN JOSE CA	109.5	LIC	BLCT-19990721KE	---	none
49	K49EO	MODESTO CA	134.7	LIC	BLTT-20000306AAN	---	none

SECTION III - ENGINEERING DATA (Digital)**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: 41																																																																																																
2.	Translator Input Channel No. :																																																																																																
3.	Primary station proposed to be rebroadcast: <table border="1"><tr><td>Facility Identifier</td><td>Call Sign</td><td>City</td><td>State</td><td>Channel</td></tr></table>	Facility Identifier	Call Sign	City	State	Channel																																																																																											
Facility Identifier	Call Sign	City	State	Channel																																																																																													
4.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 36 Minutes 32 Seconds 5 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 121 Minutes 37 Seconds 9 <input checked="" type="radio"/> West <input type="radio"/> East																																																																																																
5.	Antenna Structure Registration Number: <input checked="" type="checkbox"/> Not Applicable [Exhibit 10] <input type="checkbox"/> Notification filed with FAA																																																																																																
6.	Antenna Location Site Elevation Above Mean Sea Level: 1032 meters																																																																																																
7.	Overall Tower Height Above Ground Level: 51.5 meters																																																																																																
8.	Height of Radiation Center Above Ground Level: 24 meters																																																																																																
9.	Maximum Effective Radiated Power (ERP): 15 kW																																																																																																
10.	Transmitter Output Power: 1.2 kW																																																																																																
11.	a. Transmitting Antenna: Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under CDBS Public Access (http://fjallfoss.fcc.gov/prod/cdbs/pubacc/prod/cdbs_pa.htm). Make sure that the Standard Pattern is marked Yes and that the relative field values shown match your values. Enter the Manufacturer (Make) and Model exactly as displayed in the Antenna Search. <input type="radio"/> Nondirectional <input checked="" type="radio"/> Directional "Off-the-shelf" <input type="radio"/> Directional composite Manufacturer DIE Model TLP8-M b. Electrical Beam Tilt: 3 degrees <input type="checkbox"/> Not Applicable c. Directional Antenna Relative Field Values: <input type="checkbox"/> N/A (Nondirectional or Directional "Off-the-shelf") Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation <table border="1"><thead><tr><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th><th>Degrees</th><th>Value</th></tr></thead><tbody><tr><td>0</td><td></td><td>10</td><td></td><td>20</td><td></td><td>30</td><td></td><td>40</td><td></td><td>50</td><td></td></tr><tr><td>60</td><td></td><td>70</td><td></td><td>80</td><td></td><td>90</td><td></td><td>100</td><td></td><td>110</td><td></td></tr><tr><td>120</td><td></td><td>130</td><td></td><td>140</td><td></td><td>150</td><td></td><td>160</td><td></td><td>170</td><td></td></tr><tr><td>180</td><td></td><td>190</td><td></td><td>200</td><td></td><td>210</td><td></td><td>220</td><td></td><td>230</td><td></td></tr><tr><td>240</td><td></td><td>250</td><td></td><td>260</td><td></td><td>270</td><td></td><td>280</td><td></td><td>290</td><td></td></tr><tr><td>300</td><td></td><td>310</td><td></td><td>320</td><td></td><td>330</td><td></td><td>340</td><td></td><td>350</td><td></td></tr><tr><td colspan="2">Additional Azimuths</td><td colspan="10"></td></tr></tbody></table>	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	0		10		20		30		40		50		60		70		80		90		100		110		120		130		140		150		160		170		180		190		200		210		220		230		240		250		260		270		280		290		300		310		320		330		340		350		Additional Azimuths											
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Additional Azimuths																																																																																																	

Relative Field Polar Plot

	NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.
12.	Out-of-channel Emission Mask: <input checked="" type="radio"/> Simple <input type="radio"/> Stringent
CERTIFICATION	
13.	Interference : The proposed facility complies with all of the following applicable rule sections. 47.C.F.R Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030. <input checked="" type="radio"/> Yes <input type="radio"/> No <div>See Explanation in [Exhibit 11]</div>
14.	Environmental Protection Act. The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance, an Exhibit is required . <input checked="" type="radio"/> Yes <input type="radio"/> No <div>See Explanation in [Exhibit 12]</div> <p>By checking "Yes" above, 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>
15.	Channels 52-59. If the proposed channel is within channels 52-59, the applicant certifies compliance with the following requirements, as applicable:

<input type="checkbox"/> The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.
<input type="checkbox"/> Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licenses of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.
16. Channels 60-69. If the proposed channel is within channels 60-69, the applicant certifies compliance with the following requirements, as applicable:
<input type="checkbox"/> Pursuant to Section 74.786(e), the applicant has notified, within 30 days of filing this application, all commercial wireless licenses of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.
<input type="checkbox"/> Pursuant to Section 74.786(e), the applicant proposing operation on channel 63, 64, 68 and 69 ("public safety channels") has secured a coordinated spectrum use agreements(s) with 700 MHz public safety regional planning committee(s) and state administrator(s) of the region(s) and state(s) within which the antenna site of the digital LPTV or TV translator station is proposed to locate, and those adjoining regions and states with boundaries within 75 miles of the proposed station location.
<input type="checkbox"/> Pursuant to Section 74.786(e), the applicant for a channel adjacent to channel 63, 64, 68 or 69 has notified, within 30 days of filing this application, the 700 MHz public safety regional planning committee(s) and state administrator(s) of the region and state containing the proposed digital LPTV or TV translator antenna site and regions and states whose geographic boundaries lie within 50 miles of the proposed LPTV or TV translator antenna site.
PREPARERS CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.

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 11/25/2008	
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	