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## **B. W. St. Clair**

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### **ENGINEERING EXHIBIT - INTERFERENCE ANALYSIS**

Applicant:

KMMW-LP (23z), Stockton, CA Caballero Television Texas, LLC BMPTTL 20010917AAQ

#### **1. INTRODUCTION**

Station Licenses, Construction Permits or DTV applications having one or more overlapping protected/interfering contours or which are short-spaced by rule with the applicant:

KEZT-C (K23ES) (23-) Sacramento, CA BLTTL-19970918JA  
KRCB-D.C (23) Cotati, CA BPEDT-20000501AGU  
KOLO-DT (23) RENO, NV BPCDT-19991020ACL

#### **2. DISCUSSION**

Although there are one or more overlapping protected v. interfering contours between this application and the other Station Licenses, Construction Permits or DTV applications as shown below, all were subjected to an analysis of potential interference which includes a Longley-Rice study in accordance with OET Bulletin 69 of the actual predicted interference between this application and the identified conflicts. The findings are shown below.

#### **3. ANALYSIS**

Interference caused by the Applicant's proposed facility to  
KEZT-C (K23ES) (23-) Sacramento, CA BLTTL-19970918JA  
...NONE.

KRCB-D.C (23) Cotati, CA BPEDT-20000501AGU  
...0.267 %, WHICH IS ZERO PER OET69.

KOLO-DT (23) RENO, NV BPCDT-19991020ACL  
...0.000 %, WHICH IS ZERO PER OET69.

If applicable, the Longley-Rice study printout is shown in item #5 below.

#### **4. CONCLUSION**

No interference or interference to zero persons per OET Bulletin 69 is caused to the Station Licenses, Construction Permits or DTV applications shown above when the Longley-Rice study is used as part of the application. Thus, this application is not mutually exclusive with any Station Licenses, Construction Permits or DTV applications. Accordingly, it is requested that it be allowed to proceed forthwith to the permitting process.

#### **5. ATTACHMENT - PRINTOUT OF APPLICABLE LONGLEY-RICE STUDY**

V-Soft Communications Population Report  
INCOMING TO KEZT-C (23-) Sacramento, CA FROM KMMW-LP (23z), Stockton, CA

TV Incoming Interference Study  
Signal Resolution: 1.5 km  
Consider NTSC Taboo: Yes  
KWX error points are considered to  
be interference free coverage.  
# of radials computed for contours: 36  
Contours calculated using 8 radial HAAT.  
LR Profile Spacing Increment: 0.1 km  
Interference considered within the  
reference station's 74 dBu FCC countour.  
Using NTSC lptv/translators D/U rules.  
Threshold for reception: 74.0

Study Date: 1/29/2003  
TV Database Date: 01-28-03

Population Database: 2000 US Census (PL)  
Percentages calculated using a baseline population of 621,177.

Stations considered which do not cause interference:  
KMMW-L.A (23Z)

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Call Letters      City                      State      Dist      Bear  
KMMW-L.A (23Z)      Stockton                      CA              69.7      166.0  
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Totals for KEZT-C (23-)

Calculation Area Population:	621,177	(	457.9 sq. km )
Not Affected by Terrain Loss:	621,177	(	457.9 sq. km )
Total NTSC Interference:	0	(	0.0 sq. km )
DTV Only Interference:	0	(	0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	0	(	0.0 sq. km )
Interference Free:	621,177	(	457.9 sq. km )

Percent Interference: 0.00

Terrain Blocked Population:	0	(	0.0 sq. km)
Contour Area Population:	620,655		

V-Soft Communications Population Report  
 INCOMING TO KRCB-D.C (23) Cotati, CA FROM KMMW-LP (23z), Stockton, CA

TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 39.659

Study Date: 1/29/2003  
 TV Database Date: 01-28-03

Population Database: 2000 US Census (PL)  
 Percentages calculated using a baseline population of 4,247,245.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
KMMW-L.A (23Z)	0	11349	0.267	250.27

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
KMMW-L.A (23Z)	11349	0.267	11349	0.267

Call Letters	City	State	Dist	Bear
KMMW-L.A (23Z)	Stockton	CA	121.0	110.6

Totals for KRCB-D.C (23)

Calculation Area Population:	4,897,893	(	34797.0 sq. km )
Not Affected by Terrain Loss:	4,247,245	(	28462.5 sq. km )
Total NTSC Interference:	11,349	(	250.3 sq. km )
DTV Only Interference:	0	(	-0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	11,349	(	250.3 sq. km )
Interference Free:	4,235,896	(	28212.2 sq. km )

Percent Interference: 0.27

Terrain Blocked Population:	650,648	(	6334.6 sq. km)
Contour Area Population:	4,906,643		

V-Soft Communications Population Report  
 INCOMING TO KOLO-DT (23) RENO, NV FROM KMMW-LP (23z), Stockton, CA

TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the

reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 39.659

Study Date: 1/29/2003  
 TV Database Date: 01-28-03

Population Database: 2000 US Census (PL)  
 Percentages calculated using a baseline population of 501,561.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
KMMW-L.A (23Z)	0	0	0.000	8.59

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
KMMW-L.A (23Z)	0	0.000	0	0.000

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Call Letters	City	State	Dist	Bear
KMMW-L.A (23Z)	Stockton	CA	194.0	219.5

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Totals for KOLO-DT (23)

Calculation Area Population:	618,873	( 28199.6 sq. km )
Not Affected by Terrain Loss:	501,561	( 19369.0 sq. km )
Total NTSC Interference:	0	( 8.6 sq. km )
DTV Only Interference:	0	( 0.0 sq. km )
Total DTV Interference:	0	( 0.0 sq. km )
Interfered Population:	0	( 8.6 sq. km )
Interference Free:	501,561	( 19360.5 sq. km )

Percent Interference: 0.00

Terrain Blocked Population: 117,312 ( 8830.6 sq. km)  
 Contour Area Population: 618,670

END OF EXHIBIT