

Exhibit 41 - Statement A
ALLOCATION CONSIDERATIONS
INTERFERENCE ANALYSIS
prepared for
UPN Stations Group Inc.
KMAX-DT Sacramento, California
Facility ID 51499
Ch. 21 850 kW 581 m

UPN Stations Group Inc. (“UPN”) is the permittee of KMAX-DT, Channel 21, Sacramento, California (file number BPCDT-19991029AGC) and licensee of the paired analog KMAX-TV Channel 31 facility (BLCT-20021125AAK). The KMAX-DT Construction Permit (“CP”) authorizes a nondirectional effective radiated power (“ERP”) of 645 kW and an antenna height above average terrain (“HAAT”) of 525 meters. The instant application seeks to modify the CP to specify increases in the ERP and HAAT, to 850 kW and 581 meters, respectively.

Specifically, *UPN* proposes to now employ a “common” antenna system, which will be utilized by stations KCRA-DT (Ch. 35, Sacramento, CA) and KQCA-DT (Ch. 46, Stockton, CA). No changes in site location or the existing antenna structure’s overall height are proposed. The Antenna Structure Registration number is 1015686.

Exhibit 41 - Figure 1 depicts the predicted coverage contours for the proposed KMAX-DT facility. The DTV service contour (41 dB μ) will completely encompass Sacramento, the principal community. **Exhibit 41 - Figure 1** also demonstrates that the enhanced principal community coverage requirement of 48 dB μ (required by December 31, 2004 for commercial stations) will also be met by the proposed KMAX-DT facility.

Maximum Power / Height

The proposed 850 kW ERP exceeds the maximum permitted for the proposed antenna HAAT of 581 meters currently permitted by §73.622(f)(8)(i). However, §73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the station having the largest coverage area within the same market. In this case, the largest service area is that of KXTV-DT (Ch. 61, Sacramento, CA, 2.9 km distant, 1000 kW ERP / 595 meters HAAT). The area within the proposed KMAX-DT 41 dB μ contour is 43,823 square kilometers, which does not

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exceed the 45,629 square kilometers of area within the reference KXTV-DT 41 dB μ contour. The attached **Exhibit 41 - Figure 2** is a map which depicts the 41 dB μ coverage contours for these facilities. Additionally, the proposed KMAX-DT facility does not exceed that of other DTV allotments in the market, including KCRA-DT (Ch. 35, Sacramento, CA, 1000 kW / 591 m, 45,522 sq. km) or KVIE-DT (Ch. 53, Sacramento, CA, 1000 kW / 567 m, 44,411 sq. km) Thus, the ERP specified herein is in compliance with §73.622(f)(5) of the Commission's Rules.

NTSC and DTV Station Protection

The DTV reference effective radiated power ("ERP") and height above average terrain ("HAAT") of 181.2 kW and 558 meters, respectively, for KMAX-DT have been established under **Appendix B** of the Second Memorandum Opinion and Order on Reconsideration of the Fifth and Sixth Report and Orders in MM Docket 87-268, FCC 98-315, released December 18, 1998, per §73.622(f)(1) of the Commission's Rules. The proposed site is located 0.1 km from the reference KMAX-DT transmitter site. The proposed KMAX-DT facility will operate with 850 kW ERP and 581 meters HAAT; the proposed ERP and HAAT thus exceed the reference ERP and HAAT. Accordingly, as required by §73.622(f)(5) of the Commission's Rules, a study per §73.623(c) was conducted to evaluate interference to analog facilities and DTV assignments that may be attributed to the proposed KMAX-DT facility.

A detailed interference study was conducted in accordance with the terrain dependent Longley-Rice point-to-point propagation model, per the Commission's Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, July 2, 1997 ("OET-69").¹ The interference study examined the net change in interference as experienced by other stations that would result from the proposed facility (in lieu of the reference KMAX-DT). All stations considered in this study are listed in **Exhibit 41 - Table 1**. The results of the interference study, also summarized in **Exhibit 41 - Table 1**, indicate that any

¹The 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 processor) to the Commission's implementation of OET-69 show excellent correlation.

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additional interference to these stations meets the Commission's 2% / 10% interference limits to all pertinent NTSC and DTV stations and allotments.

Class A Station Protection

With respect to television stations that have been granted a Class A License or hold a Class A Construction Permit, the instant proposal does not involve prohibited contour overlap to any Class A station, except for KEZT-CA (Lic, Ch. 23, Sacramento, CA, 33.5 km distant) and KDTS-CA (CP, Ch. 22, Stockton, CA, 54.7 km). These two facilities would receive contour overlap that would be prohibited under §73.623(c)(5)(i) from the proposed KMAX-DT facility. Standard protection requirements are met to all other pertinent Class A stations.

A detailed review of the situation regarding KEZT-CA and KDTS-CA(CP) disclosed that overlap which would be prohibited presently exists from the authorized KMAX-DT facility. This overlap creates an area of "existing" predicted interference to both facilities under the standard method of interference prediction specified in §73.623(c)(5)(i).

Per §73.623(c)(5)(iii) of the Commission's Rules, a request for waiver of the standard contour protection requirements of §73.623(c)(5)(i) may be based on a more detailed analysis to show that interference is not likely. Specifically, interference protection to a Class A station from a DTV modification may also be demonstrated using OET-69 methods. Accordingly, detailed interference studies were conducted in accordance with OET-69 to determine the impact of the proposed KMAX-DT facility on the KEZT-CA and KDTS-CA(CP).²

The results of the interference study regarding the affected Class A stations are summarized in **Exhibit 41 - Table 2**. As shown therein, the proposed KMAX-DT facility is not predicted to

²For OET-69 evaluation of Class A station service, a nominal cell size of 1 km was employed (since the Class A station service area is much smaller than that for full-power stations). The service area for the involved analog Class A facilities is that area predicted to receive signal levels of at least 74 dB μ using the Longley-Rice methodology, and within the 74 dB μ F(50,50) service contour distance as corrected with the dipole factor.

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cause any interference to KEZT-CA or KDTS-CA(CP). If a waiver of §73.623(c)(5)(i) is necessary, then one is respectfully requested on behalf of the applicant for the reasons stated above.

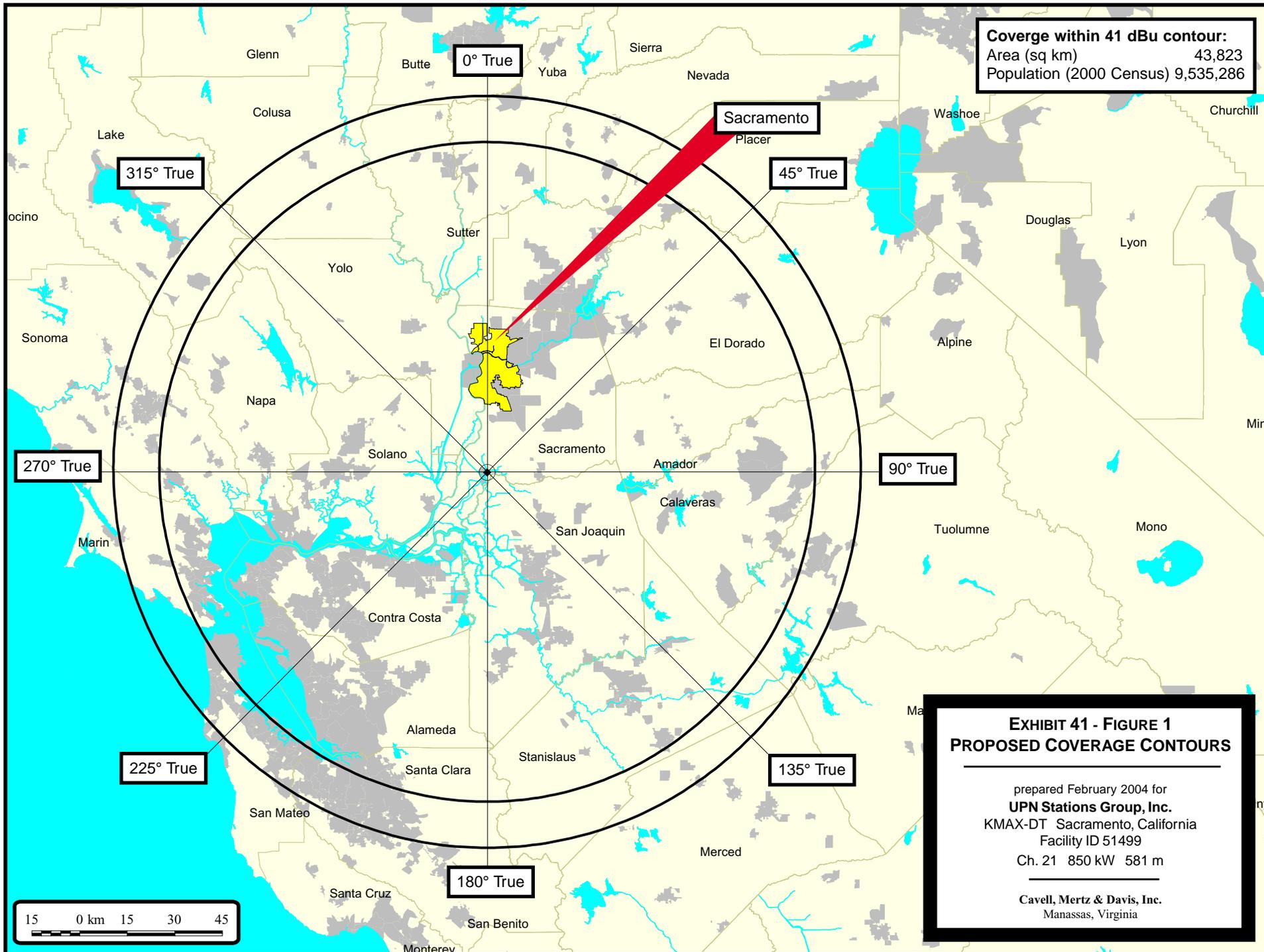
Other Allocation Considerations

The nearest FCC monitoring station is 64.2 km distant at Livermore, CA, at a bearing of 201.1 degrees True from the proposed facility. This distance is within the 80 km suggested threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. Given the proposed ERP and antenna location and height, the FCC's standard propagation F(50,50) curves predict that the field intensity at the monitoring station would be 74.7 dBμ. Due to terrain blockage along the profile to the Livermore monitoring station, the actual signal level should be even lower. For instance, the predicted F(50,50) signal level using the terrain-dependent Longley-Rice propagation methodology is 53.3 dBμ.³ These predicted levels do not exceed the 80 dBμ (10 mV/m) guideline established in §73.1030(c)(1) regarding Commission monitoring stations. Further, based on informal consultations with the Commission's Enforcement Bureau ("EB") Staff, the 10 mV/m signal level referenced in §73.1030(c)(1) was developed primarily for AM broadcast frequencies (540 - 1700 kHz), and higher signal levels at frequencies used by UHF television stations are acceptable. Commission Staff has advised that their threshold for objection within the UHF television band is much higher than the 10 mV/m stated in §73.1030(c)(1). Thus, the predicted signal levels as described above attributable to the proposed KMAX-DT is not expected to be objectionable to the Commission's EB Staff.

There are no AM broadcast stations within 3.2 km (2 miles) of the proposed site, according to information extracted from the Commission's engineering database.

Thus, this proposal is believed to be in compliance with the current Commission Rules and policy with respect to allocation matters.

³Longly-Rice predictions using F(50,10) criteria indicate a field intensity of 56.1 dBμ.

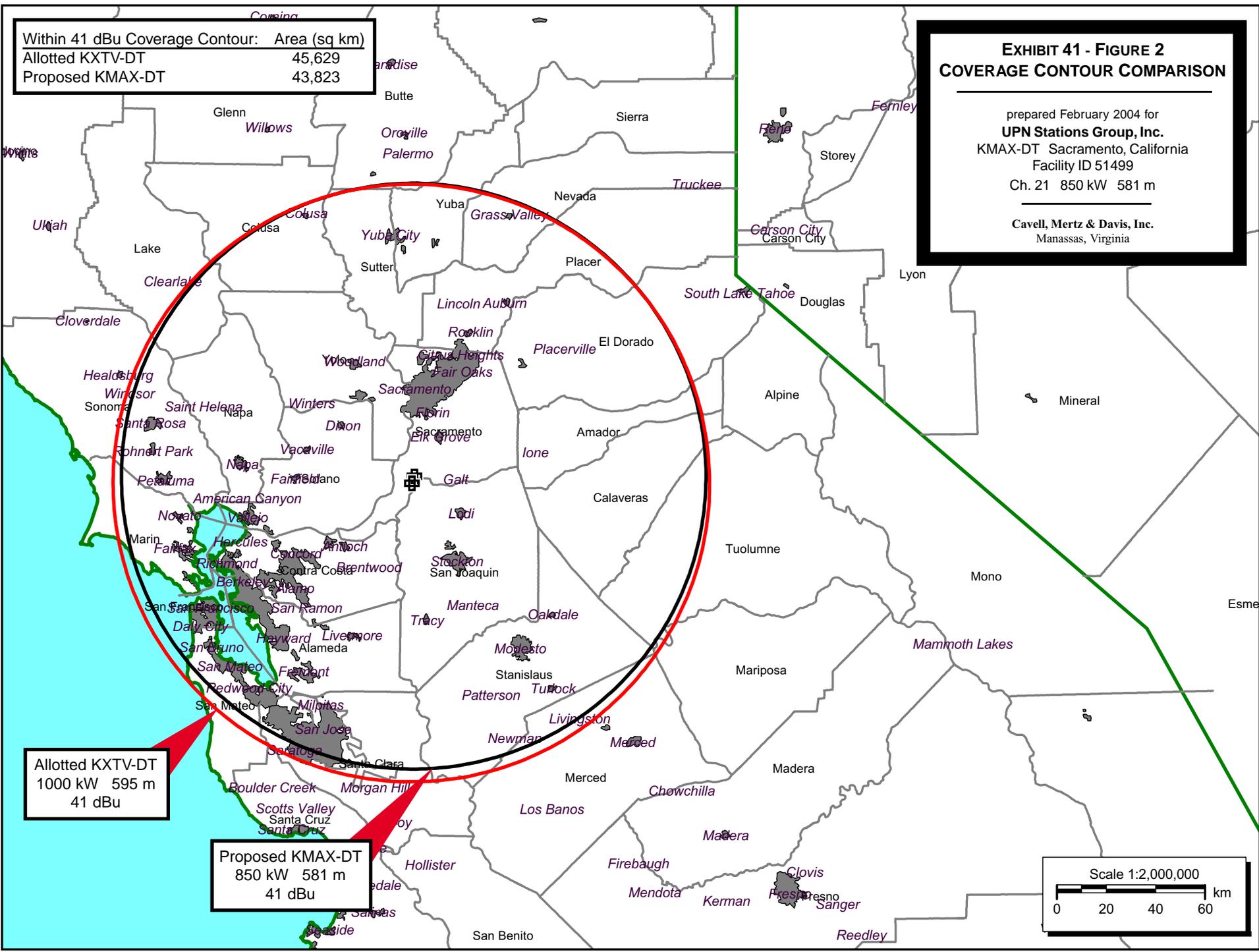


Within 41 dBu Coverage Contour:	Area (sq km)
Allotted KXTV-DT	45,629
Proposed KMAX-DT	43,823

EXHIBIT 41 - FIGURE 2
COVERAGE CONTOUR COMPARISON

prepared February 2004 for
UPN Stations Group, Inc.
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 Facility ID 51499
 Ch. 21 850 kW 581 m

Cavell, Mertz & Davis, Inc.
 Manassas, Virginia



Allotted KXTV-DT
 1000 kW 595 m
 41 dBu

Proposed KMAX-DT
 850 kW 581 m
 41 dBu

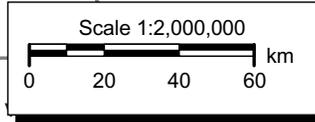


Exhibit 41 - Table 1
INTERFERENCE ANALYSIS RESULTS SUMMARY

prepared for
UPN Stations Group Inc.
 KMAX-DT Sacramento, California
 Facility ID 51499
 Ch. 21 850 kW 581 m

DTV Facilities

<u>Stations Considered</u>	<u>City, State Channel</u>	<u>Distance (km)</u>	<u>Baseline Population</u> (1)	<u>Calculated "Before" Service Population</u> (2)	<u>Calculated "After" Service Population</u> (3)	<u>--- Net "New" Interference ---</u> ("2 percent" test)		<u>Percentage Reduction of Baseline Population ("10 percent" test)</u> (6)
						<u>Population</u> (4)	<u>Percentage</u> (5)	
KAME-DT (Ref)	Reno, NV 20	207.4				----- no interference caused by proposal -----		
KAME-DT (Lic)	Reno, NV 20	207.3				----- no interference caused by proposal -----		
KCVU-DT (Ref)	Paradise, CA 20	189.4				----- no interference caused by proposal -----		
KCVU-DT (CP)	Paradise, CA 20	189.6	370,000	514,675	507,733	6,942	1.88	0.00
KFTV-DT (Ref)	Hanford, CA 20	224.7				----- no interference caused by proposal -----		
KFTV-DT (Lic)	Hanford, CA 20	224.8				----- no interference caused by proposal -----		
KAME-DT (Ref)	Reno, NV 22	207.4				(allotment changed to Channel 20 in MM Docket 00-234)		

Exhibit 41 - Table 1
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NTSC Facilities

<u>Stations Considered</u>	<u>City, State Channel</u>	<u>Distance (km)</u>	<u>Baseline Population</u> (1)	<u>Calculated "Before" Service Population</u> (2)	<u>Calculated "After" Service Population</u> (3)	<u>--- Net "New" Interference ---</u> ("2 percent" test)		<u>---Total Interference---</u> <u>from DTV only</u> ("10 percent" test)	
						<u>Population</u> (4)	<u>Percentage</u> (5)	<u>Population</u> (7)	<u>Percentage</u> (8)
KDTV(TV) (Lic)	San Francisco, CA 14	91.4		----- no interference caused by proposal -----					
KUVS-TV (Lic)	Modesto, CA 19	69.0		----- no interference caused by proposal -----					
KBWB(TV) (CP)	San Francisco, CA 20	101.6	6,323,516	5,343,986	5,314,335	29,651	0.47	191,536	3.03
KBWB(TV) (Lic)	San Francisco, CA 20	101.7	5,319,906	5,095,489	5,073,945	21,544	0.40	203,692	3.83
KAME-TV (Lic)	Reno, NV 21	207.4		----- no interference caused by proposal -----					
KFTV(YV) (Lic)	Hanford, CA 21	224.8	1,240,359	1,202,206	1,177,557	24,649	1.99	28,920	2.33
KRCB(TV) (Lic)	Cotati, CA 22	95.3	1,451,989	981,184	981,184	0	0.00	8,574	0.59
KBSV(TV) (Lic)	Ceres, CA 23	88.5		----- no interference caused by proposal -----					
KSPX(TV) (App)	Sacramento, CA 29	0.0		----- no interference caused by proposal -----					

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NTSC Facilities

<u>Stations Considered</u>	<u>City, State Channel</u>	<u>Distance (km)</u>	<u>Baseline Population</u> (1)	<u>Calculated "Before" Service Population</u> (2)	<u>Calculated "After" Service Population</u> (3)	<u>--- Net "New" Interference ---</u> ("2 percent" test)		<u>---Total Interference---</u> from DTV only ("10 percent" test)	
						<u>Population</u> (4)	<u>Percentage</u> (5)	<u>Population</u> (7)	<u>Percentage</u> (8)
KSPX(TV) (Lic)	Sacramento, CA 29	68.6		----- no interference caused by proposal -----					

- Notes:
- (1) For DTV stations, greater of NTSC or DTV Service Population, from FCC Table
For NTSC stations, total population within noise-limited contour
 - (2) Service population after reduction from terrain and interference losses, before consideration of proposal
 - (3) Service population after reduction from terrain and interference losses, considering proposal
 - (4) Net change in population receiving interference resulting from proposal, equals (2) minus (3). A negative number indicates a *reduction* in interference.
 - (5) Proposal's impact in terms of percentage, equals (4)/(1) times 100 percent: not to exceed *de minimis* limit of 2.0 percent
 - (6) Total interference to DTV stations: equals 100 percent minus [(3)/(1) X 100%]; proposal may not add interference above 10% total. Zero total interference is indicated if (3) is greater than (1).
 - (7) NTSC station total population subject to interference from DTV only sources (considering proposal)
 - (8) Proposal's impact to NTSC station in terms of percentage, equals (7)/(1) times 100 percent; proposal may not add interference above 10% total

The determination of stations for consideration and the determination of baseline population and interference percentages were made as described in the Commission's August 10, 1998 Public Notice "*Additional Application Processing Guidelines for Digital Television*"

Exhibit 41 - Table 2

CLASS A STATION INTERFERENCE ANALYSIS RESULTS SUMMARY

prepared for

UPN Stations Group Inc.
 KMAX-DT Sacramento, California
 Facility ID 51499
 Ch. 21 850 kW 581 m

<u>Stations Considered</u>	<u>City, State Channel</u>	<u>Distance (km)</u>	<u>Baseline Population</u> (1)	<u>Service Population</u> (2)	<i>---- Unique Interference ---- from proposal</i>	
					<u>Population</u> (3)	<u>Percentage</u> (4)
KDTS-CA (CP)	Stockton, CA 22	54.7	--- no interference caused by proposal ---			
KEZT-CA (Lic)	Sacramento, CA 23	33.5	--- no interference caused by proposal ---			

OET-69 Class A station analysis notes:

- (1) Population within 74 dBμ service contour, as adjusted with dipole factor
- (2) Service population after reduction from terrain and interference losses, before consideration of proposal
- (3) Net change in population receiving interference resulting from proposal
A number in parenthesis indicates a decrease in interference
- (4) Proposal's impact in terms of percentage, equals (3)/(1) times 100 percent: not to exceed zero when rounded to the nearest whole percent