

TECHNICAL REPORT

MINOR CHANGE APPLICATION TO CHANGE KRRF CITY OF LICENSE FROM GOLETA, CA TO OAK VIEW, CA FILED CONTINGENTLY WITH KRUF APPLICATION TO CHANGE CITY OF LICENSE TO GOLETA, CA

KRRF application

KRRF proposes to change transmitter site and community of license to Oak View, CA providing a first local service to the new community. The current community of license, Goleta, CA, will continue to be served by KRUZ(FM) as a result of a separate contingent application changing the city of license to Goleta.

KRRF Allocation analysis

All terrain data utilized in this report were obtained from the V-Soft FCC thirty (30) second terrain database. Tabulation of HAAT and contours is provided as E3. A channel study is provided as E1 for the proposed facility at:

(NAD 27) N 34-17-47 W 119-16-21 (ASR#1014800).

E1 also demonstrates that the proposed 292A facility is mutually exclusive with the existing licensed facility. Coverage of Oak View with a 70 dBu contour is demonstrated in E2. A technical report and exhibits responding to 307(b) considerations is provided separately as Exhibit E35.

The proposed HAAT is well above the class A 100 meters maximum. Therefore, the ERP has been reduced to produce a maximum class A 60 dBu of 28.466 km. See E5.

KRRF fully spaced allocation point

Exhibits E4, E5 and E6 are provided documenting the fully spaced reference point which is provided at an existing, registered tower:

(NAD27) N 34-20-57 W 119-20-04 (ASR#1051063).

Antenna System and RF Calculations

The KRRF two bay Shively 6813 circularly polarized one-half wavelength spaced antenna will be mounted on an existing tower (ASR#1015246) at 48 meters AGL. The maximum RF contribution for the 0.9 kW facility was calculated using FMModel to be 2.4 microWatts/cm² or 1.2% of the general public maximum exposure level of 200 microwatts/cm², and less than the 5% requiring consideration.

Conclusion

It is concluded that the proposed KRRF application is in full compliance with Commission rules and policies.

February 9, 2011

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Bowling Green, KY 42103

270-782-0246

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E1 CHANNEL STUDY

REFERENCE		DISPLAY DATES
34 17 47.0 N.	CLASS = A Int = AA	DATA 01-25-11
119 16 21.0 W.	Current Spacings to 3rd Adj.	SEARCH 01-26-11
----- Channel 292 - 106.3 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
KRRF	LIC 292A	Goleta	CA	297.0	41.6	114.5	-72.9
KGMX	CP -N 292A	Lancaster	CA	64.3	116.3	114.5	1.8
KGMX	LIC 292A	Lancaster	CA	64.3	116.3	114.5	1.8
KEAL	LIC 293A	Taft	CA	349.1	90.4	71.5	18.9
KROQ-FM	LIC 294B	Pasadena	CA	96.5	93.9	68.5	25.4
KALI-FM	LIC-N 292A	Santa Ana	CA	114.3	143.8	114.5	29.3
KRAB	LIC-Z 291B1	Greenacres	CA	22.6	128.1	95.5	32.6
KRAZ	LIC-Z 290A	Santa Ynez	CA	292.3	67.8	30.5	37.4
KPWR	LIC-D 290B	Los Angeles	CA	93.6	111.1	68.5	42.6

Reference station has protected zone issue: Mexico

E2 KRRF
BMLH20001228AAL
Latitude: 34-17-47 N
Longitude: 119-16-21 W
ERP: 0.90 kW
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 400.0 m
Elevation: 352.0 m
Horiz. Pattern: Omni

OAK VIEW, CA
BOUNDARY (GRAY)

PROPOSED FCC 70 DBU

KRRF

Ventura

Oxnard

Port Hueneme

ANDERSON ASSOCIATES

Scale 1:175,000

0 2 4 6 km

E3 HAAT AND CONTOUR TABULATION

N. Lat. = 341747 W. Lng. = 1191621
HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kw	dBk	70-F5	60-F5
000	242.8	157.2	0.9000	-0.46	12.57	22.54
045	349.2	50.8	0.9000	-0.46	7.12	12.76
090	130.1	269.9	0.9000	-0.46	16.55	28.92
135	23.9	376.1	0.9000	-0.46	19.57	34.23
180	1.1	398.9	0.9000	-0.46	20.13	35.13
225	0.6	399.4	0.9000	-0.46	20.14	35.15
270	31.9	368.1	0.9000	-0.46	19.37	33.89
315	333.3	66.7	0.9000	-0.46	8.19	14.47

Ave E_l= 139.11 M HAAT= 260.89 M AMSL= 400 M

E4 FULLY SPACED REFERENCE POINT

REFERENCE		DISPLAY DATES
34 20 57.0 N.	CLASS = A Int = AA	DATA 02-09-11
119 20 04.0 W.	Current Spacings to 3rd Adj.	SEARCH 02-09-11
----- Channel 292 - 106.3 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
KRRF	LIC 292A	Goleta	CA 292.5	34.0	114.5	-80.5
KGMX	CP -N 292A	Lancaster	CA 68.0	119.4	114.5	4.9
KGMX	LIC 292A	Lancaster	CA 68.0	119.4	114.5	4.9
KEAL	LIC 293A	Taft	CA 352.1	83.5	71.5	12.0
KRAB	LIC-Z 291B1	Greenacres	CA 26.0	125.0	95.5	29.5
KRAZ	LIC-Z 290A	Santa Ynez	CA 289.1	60.6	30.5	30.1
KROQ-FM	LIC 294B	Pasadena	CA 99.4	100.5	68.5	32.0
KALI-FM	LIC-N 292A	Santa Ana	CA 115.4	151.6	114.5	37.1

Reference station has protected zone issue: Mexico

**E5 FULLY SPACED
REFERENCE POINT
AT ASR#1051063**

**Latitude: 34-20-57 N
Longitude: 119-20-04 W
Channel: 292
Frequency: 106.3 MHz**

CIRCULAR 70 DBU = 16.2 KM

**OAK VIEW, CA
BOUNDARY (GRAY)**

KRRF

Ventura

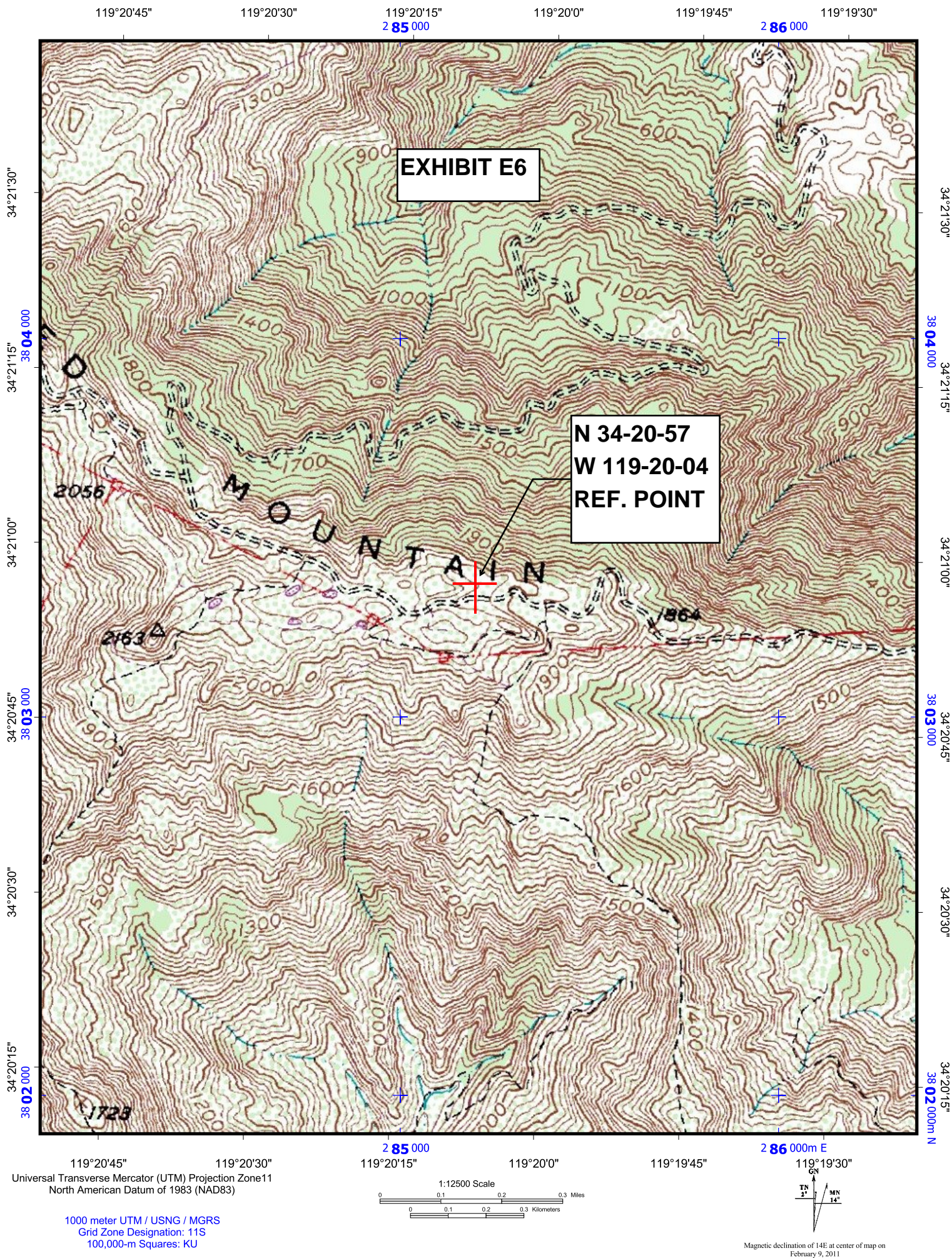
Oxnard

Port Hueneme

Scale 1:250,000

0 3 6 9 km

ANDERSON ASSOCIATES



ASR Registration Search

Registration 1014800**EXHIBIT E4** [Map Registration](#)**Registration Detail**

Reg Number	1014800	Status	Constructed
File Number	A0564153	Constructed	12/28/1960
FAA Study	2003-AWP-2548-OE	EMI	No
FAA Issue Date	09/08/2003	NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long	34-17-47.0 N 119-16-24.0 W	(HALL CANYON #89321--CAN) 3 miles North of East Main
City, State	VENTURA , CA	
Center of AM Array		

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
352.3	63.1
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
415.4	61.0

Painting and Lighting Specifications

FAA Chapters 4, 8, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1K

Owner & Contact Information

FRN	0005885231	Licensee ID	L00008376
Assignor FRN	0006156145	Assignor ID	L00008376

Owner

American Towers, Inc.
 Attention To: FAA/FCC Compliance Dept.
 1101 Perimeter Drive
 Schaumburg , IL 60173

P: (847)240-1508
 E: ATCfaa-fccmidwest@americantower.com

Contact

Compliance Dept. , FAA/FCC
 1101 Perimeter Drive
 Schaumburg , IL 60173

P: (847)240-1508
 E: ATCfaa-fccmidwest@americantower.com

Last Action Status

Status	Constructed	Received	10/03/2007
Purpose	Change Owner	Entered	10/03/2007
Mode	Interactive		

EXHIBIT 7

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Audio Division

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FM and TV Propagations Curves Calculations
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Results -- FM and TV Propagation Curves Calculations**Results of Calculation****Distance to Contour = 28.466 km**
[Back to Numeric Entries](#)
[Back to Initial Selections](#)
For input data from Pages 1 and 2:

ERP entered = 0.900 kW

HAAT entered = 261.00 meters

Field Strength entered = 60.000 dBu

Find the Distance to the Contour, Given a Field Strength

F(50,50) curves for service contours

FM and NTSC analog TV Channels 2 through 6

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