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Nevada Public Radio, Inc.
New Non-Commercial Educational Station
Class B, Channel 216, Ridgecrest, CA
35-28-38.2 N, 117-42-1.5 W – ERP = 7 KW – RCAMSL = 1349 Meters

The applicant seeks new NCE Station serving Ridgecrest, California on Channel 216.

Allocation Considerations

The facility is fully compliance pursuant to 73.525, 73.209 and all other rule sections with respect to interference with existing broadcast authorizations and applications.

ComStudy 2.2 search of Channel 216 (Class B) at (NAD 83) 35-28-38.2 N, 117-42-1.5 W.

<u>CALL</u>	<u>CITY</u>	<u>ST</u>	<u>CHN</u>	<u>CL</u>	<u>DIST</u>	<u>SEP</u>	<u>BRNG</u>	<u>CLEARANCE</u>
KDSC	THOUSAND OAKS	CA	216	B	180.01	241.0	229.3	0.14 dB
KFRB	BAKERSFIELD	CA	217	B	94.59	169.0	267.6	4.47 dB
KWTH	BARSTOW	CA	217	B	134.53	169.0	133.2	4.71 dB
KVKL	LAS VEGAS	NV	216	C1	220.55	270.0	84.9	8.01 dB
KLVY	FAIRMEAD	CA	216	B	255.21	241.0	316.6	9.31 dB
KKLP	PERRIS	CA	216	B1	195.07	211.0	159.4	10.22 dB
KKLP	PERRIS	CA	216	B1	195.07	211.0	159.4	10.22 dB
KGZO	SHAFTER	CA	215	B	187.48	169.0	263.9	16.06 dB
KVKL	LAS VEGAS	NV	216	C1	245.80	270.0	77.0	17.74 dB
KPFK	LOS ANGELES	CA	214	B	142.51	74.0	193.7	19.39 dB
KLVY	FAIRMEAD	CA	216	B	255.21	241.0	316.6	20.22 dB
KDOX	BIG PINE	CA	217	B	219.03	169.0	348.7	21.84 dB
KPFK	LOS ANGELES	CA	214	B	142.51	74.00	193.7	24.60 dB
KDOX	BIG PINE	CA	217	B	219.01	169.0	348.7	25.29 dB

Community of License Coverage

The proposed f(50,50) 60 dBu Contour serves 100 percent of the Community of License and 100 percent of the land area of Ridgecrest, California. Attached is a map to demonstrate this.

Height Above Average Terrain

Using the FCC Online Computer Program HAAT, using the proposed geographic coordinates, radiation center and the eight cardinal radials, the Height Above Average Terrain for the proposed antenna is 388 meters.

The 8 cardinal radial data results are below:

0°	460.1 m
45°	339.1 m
90°	307.8 m
135°	349.7 m
180°	418.0 m
225°	568.0 m
270°	197.4 m
315°	464.0 m

TV 6 Considerations

There are no Full-Service or Class A TV 6 Licenses, Permits or Applications within the threshold distance pursuant to 47 CFR Section 73.525. No further showing is required.

Basis for Land Area and Population Coverage (Technical Parameters)

Attached is a map showing the f(50,50) 60 dBu new area using USGS 3 arc-second terrain data and the population contained in the calculated area. The map shows a Census 2010 population density color underlay representation of the population served. The count was made by Radiosoft Comstudy.

The new area served in the Points System Factors/Tiebreakers – Technical Parameters Section is 8571.0 square kilometers. The basis for this calculation is the f(50,50) 60 dBu contour area. No derating for water is included since the only water areas covered by the proposed contour are streams and small rivers unable to be calculated using available tools.

The new population served in the Points System Factors/Tiebreakers – Technical Parameters Section is 53539. The basis for this calculation is the f(50,50) 60 dBu contour area overlay with Census 2010 population block centroids.

Environmental Statement

The applicant has proposed to co-locate the proposed transmitting antenna and equipment on and existing, established communications tower facility. Using the FCC computer program, FM Model and using a proposed antenna of ERI LP-6C antenna (Opposed U, 6-Bay Half-Wave Spaced) antenna type, with 7 KW ERP (Horizontal and Vertical) at a height above ground level of 18 meters, the maximum RF radiation level reaching 2 meters above ground is 20.59

microwatts per centimeter squared. This is within the level of both General Population and Occupational standards set forth in OET Bulletin 65 and successor documents.

There are many other RF facilities at the El Paso Peak Communications Antenna Farm and the licensed coordinates and technical parameters of many of these facilities differ significantly from the installed facilities' parameters.

The aggregate maximum is impossible to predict. The applicant will submit to a RF radiation measurement special operating condition in order to protect the public from RF radiation in excess of the standards set forth in OET Bulletin 65 and successor documents.

- End of Report -

Attachments:

1. Community of License Coverage Map
2. f(50,50) 60 dBu contour map showing population overlay and land area covered.