

ENGINEERING EXHIBIT NO. 1A  
AMENDMENT TO APPLICATION FOR  
CONSTRUCTION PERMIT  
BUCKLEY BROADCASTING CORPORATION  
OF CALIFORNIA  
RADIO STATION KSMJ  
SHAFTER, CALIFORNIA  
CH 249A      4.4 KW (MAX-DA)      116 M

Engineering Statement

This statement and the attached Figures were prepared on behalf of Buckley Broadcasting Corporation of California as an amendment to the pending application to change the facilities of KSMJ Shafter, California, FCC File No. BPH-20010129ABN.

Engineering review indicates that incorrect geographic coordinates were employed for the proposed operation of KSMJ. The correct coordinates are approximately 80 meters from the indicated location in the application. At the correct location, there is a modest difference in the average elevations, therefore pertinent exhibits were redone and are attached, as described following.

Shafter, California

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Figure 1A provide the correct geographic coordinates (NAD 27), slightly changed average elevations and antenna height above average terrain, and computation of the transmitter output power.

Figure 2A, a tower sketch, show the correct geographic coordinates.

Figure 3A is a map showing the predicted 70 dBu and 60 dBu contours. The Longley-Rice propagation method employed to demonstrate coverage of Shafter as detailed in Exhibit No. 1, remains pertinent as it indicates coverage of Shafter greatly exceeding the FCC prediction method.

Figure 5A is an allocation map showing pertinent coverage and interfering contours for the proposed operation of KSMJ and the operation of KVVA Mojave, California. As shown on Figure 5A, no prohibited contour overlap occurs.

The two sheets of Figure 7A show the slightly modified directional antenna pattern envelope for KSMJ, in graphical and tabular form.

Shafter, California

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There is no change in the environment assessment as shown in Exhibit No. 1.



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ENGINEERING EXHIBIT  
APPLICATION FOR CONSTRUCTION PERMIT  
RADIO STATION KRME  
SHAFTER, CALIFORNIA  
CH 249A      4.4 KW (MAX-DA)      116 M

Engineering Specifications

Channel	249
Frequency	97.7 MHz
Site coordinates	35° 27' 33" North Latitude 119° 01' 13" West Longitude
Site elevation above mean sea level	267.6 m (878 ft.)
Average elevation above mean sea level of nine equally spaced radials, 3.2 to 16.1 km	202.9 m (665.7 ft.)
Overall height of existing antenna structure with lighting	
Above ground	77.0 m (253 ft.)
Above mean sea level	344.6 m (1130.6 ft.)
Height of FM antenna radiation center	
Above ground	51.0 m (167.3 ft.)
Above mean sea level	318.6 m (1045.3 ft.)
Above average terrain	115.7 m (379.6 ft.) (Rounded to 116 m)
Transmitter	*Harris type HT5CD
Rated power output	5.0 kW

Transmission line	*Andrew, type HJ7-50A
Nominal diameter	1-5/8 in.
Length	210 ft.
Efficiency (0.435 dB loss)	90.5%

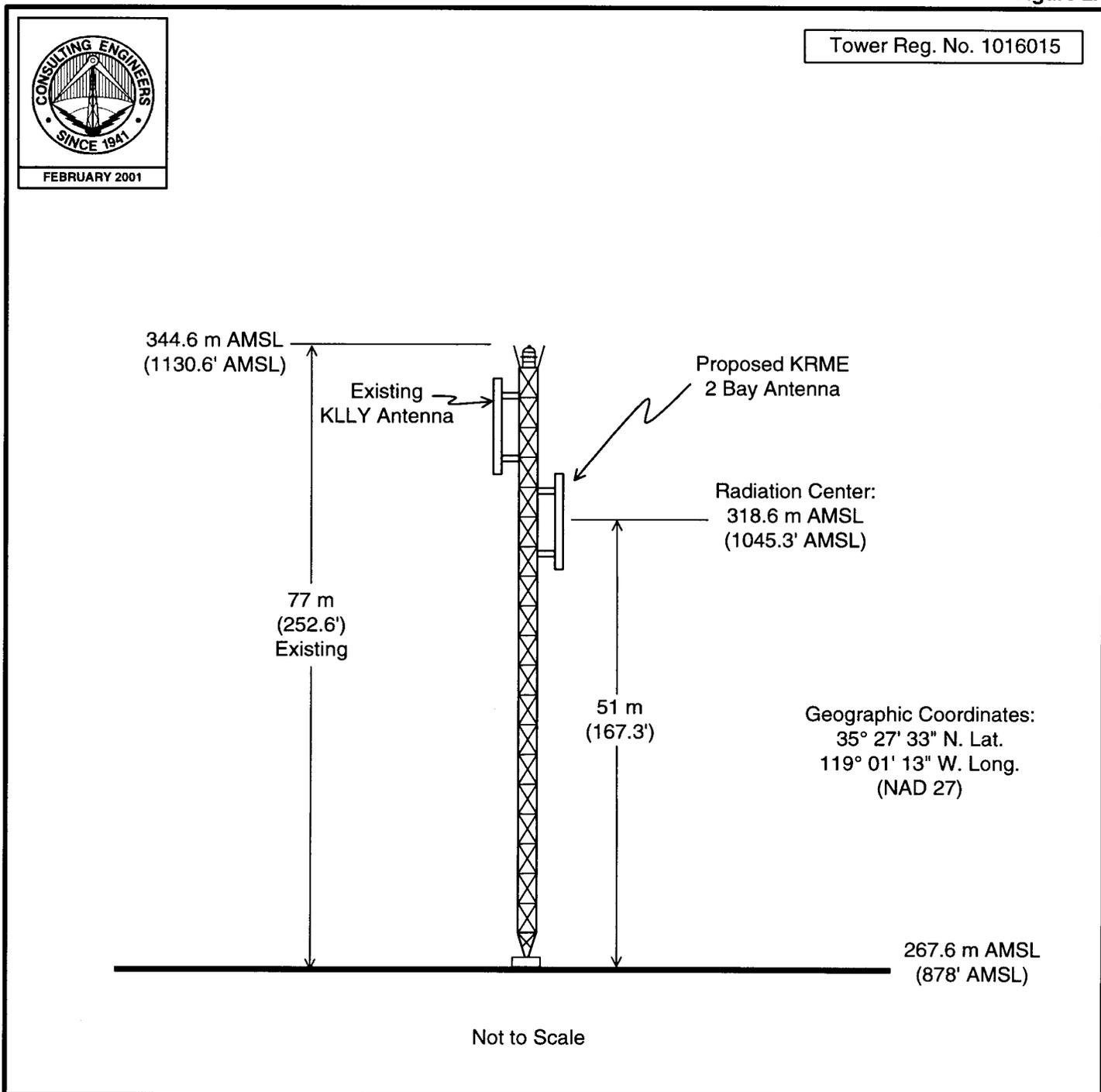
Directional Antenna	*ERI, type LP-2E
Number of bays	2
Polarization	Circular
Maximum Power Gain (estimated)	1.1

Proposed Operation

Transmitter output power	4.42 kW
Transmission line loss	0.42 kW
Antenna input power	4.00 kW
Effective radiated power Circular polarization	4.40 kW

\*Or Equivalent

Figure 2A



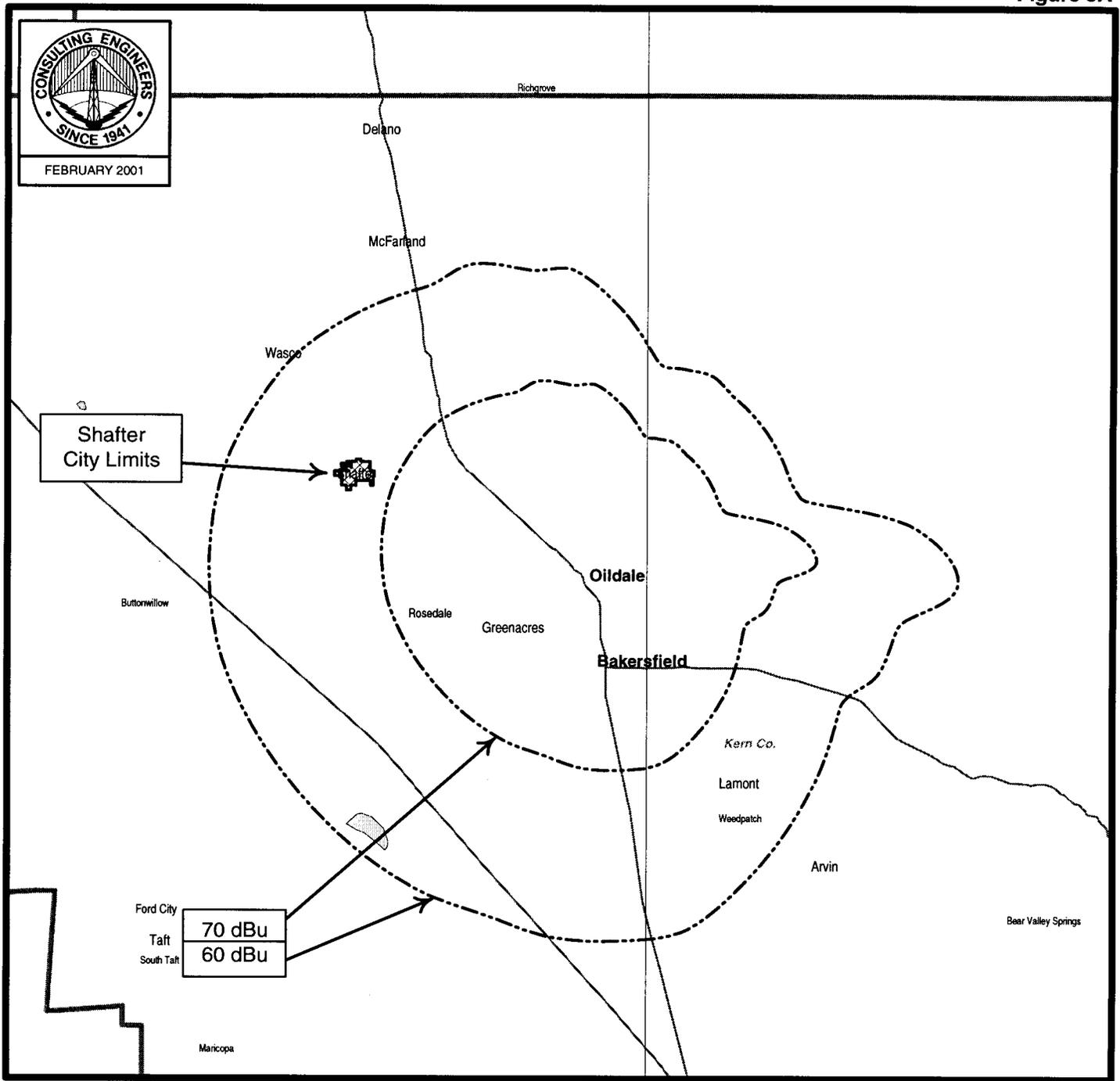
## PROPOSED ANTENNA AND SUPPORTING STRUCTURE

RADIO STATION KSMJ

SHAFTER, CALIFORNIA

CH 249A 4.4 KW (MAX-DA) 116 M

du Treil, Lundin & Rackley, Inc., Sarasota, Florida



**PREDICTED COVERAGE CONTOURS**

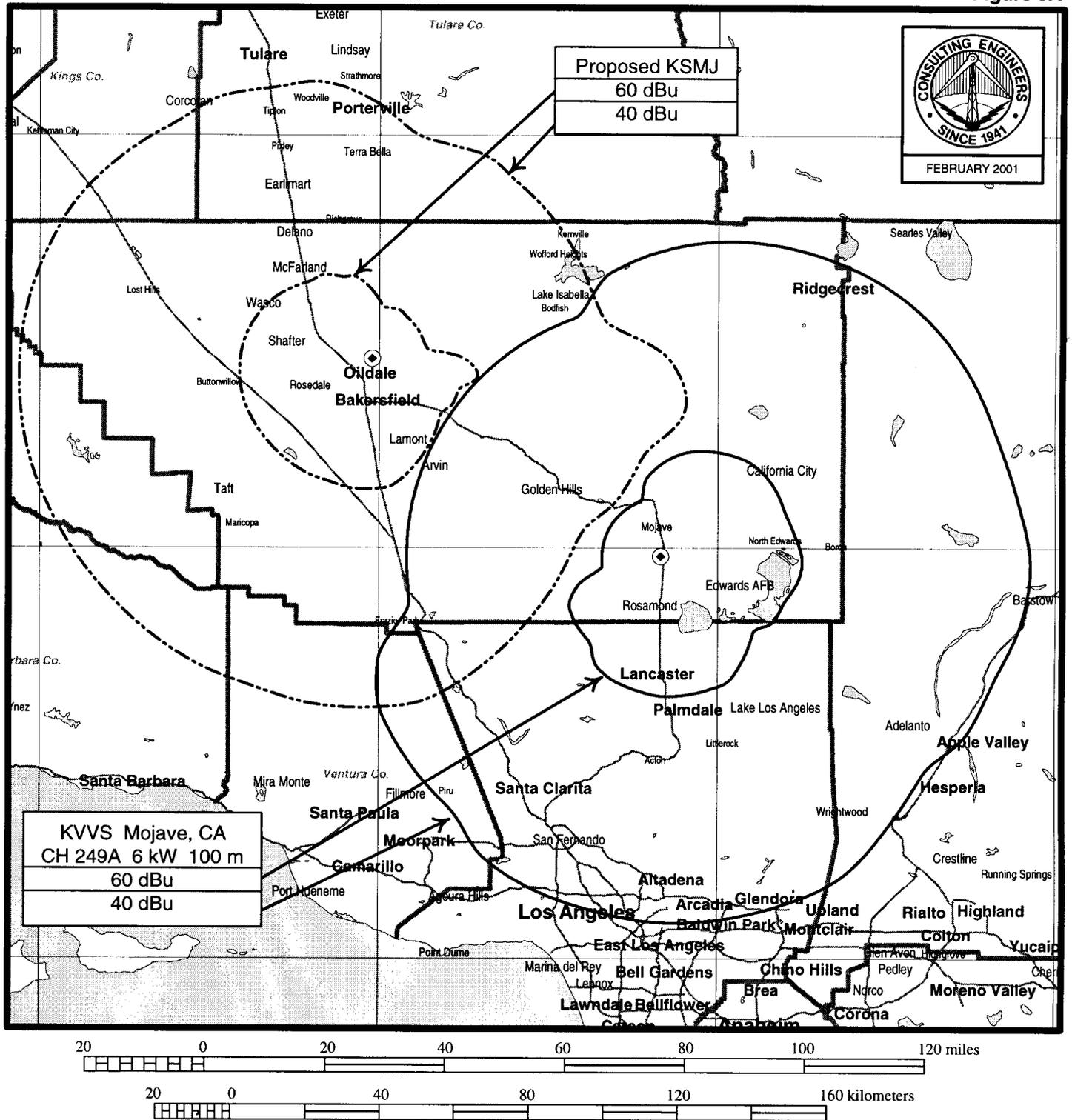
RADIO STATION KSMJ

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Figure 5A

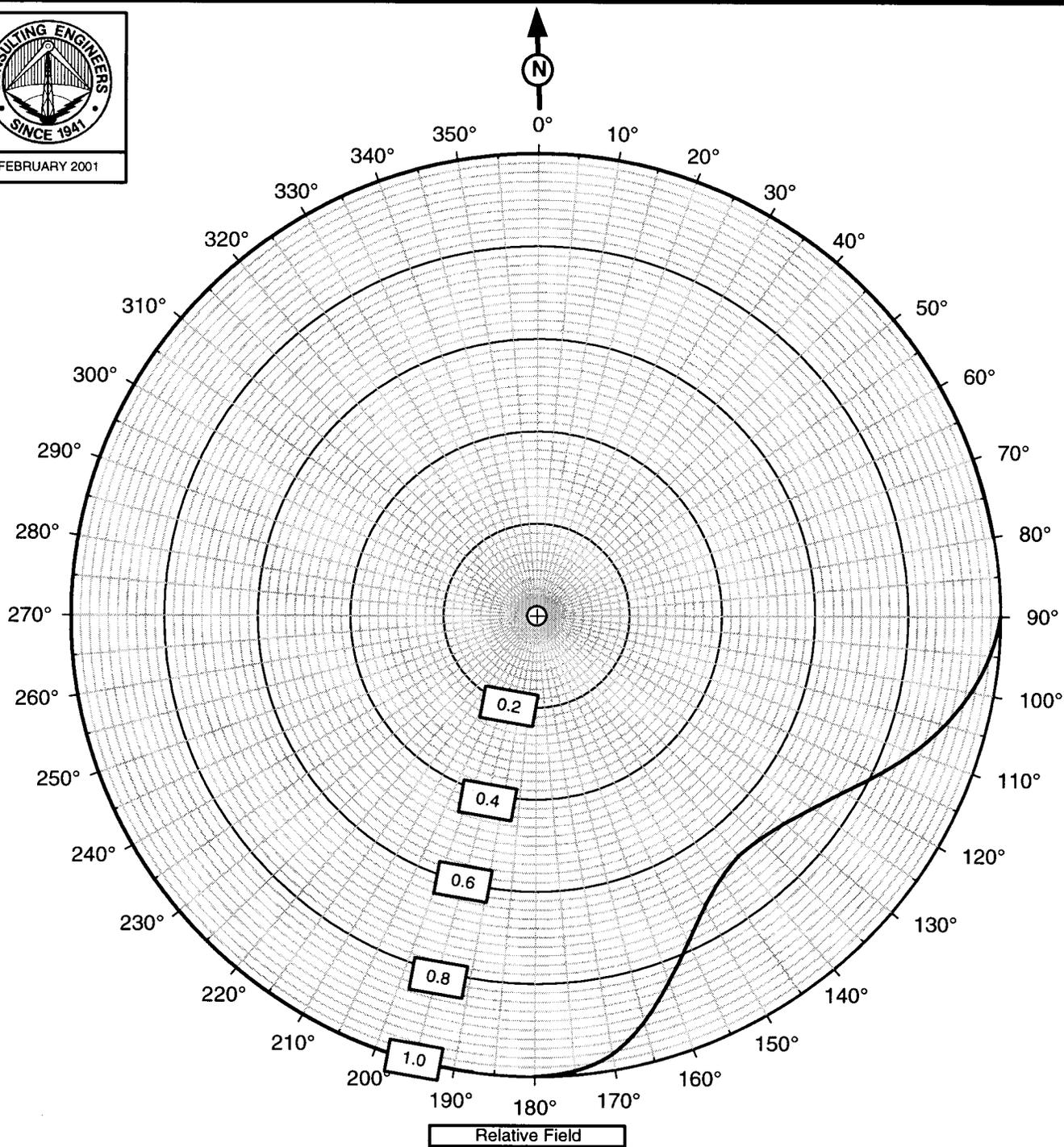


**ALLOCATION STUDY**  
**RADIO STATION KSMJ**  
**SHAFTER, CALIFORNIA**  
**CH 249A 4.4 KW (MAX-DA) 116 M**

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FEBRUARY 2001



## DIRECTIONAL ANTENNA PATTERN

RADIO STATION KSMJ

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Tabulation of Directional Antenna Patterns

<u>Azimuth (deg.)</u>	<u>Relative Field</u>	<u>E.R.P. (kW)</u>	<u>Azimuth (deg.)</u>	<u>Relative Field</u>	<u>E.R.P. (kW)</u>
0	1.000	4.40	180	1.000	4.40
10	1.000	4.40	190	1.000	4.40
20	1.000	4.40	200	1.000	4.40
30	1.000	4.40	210	1.000	4.40
40	1.000	4.40	220	1.000	4.40
50	1.000	4.40	230	1.000	4.40
60	1.000	4.40	240	1.000	4.40
70	1.000	4.40	250	1.000	4.40
80	1.000	4.40	260	1.000	4.40
90	1.000	4.40	270	1.000	4.40
100	0.951	3.98	280	1.000	4.40
110	0.865	3.29	290	1.000	4.40
120	0.765	2.57	300	1.000	4.40
130	0.700	2.16	310	1.000	4.40
140	0.681	2.04	320	1.000	4.40
150	0.730	2.34	330	1.000	4.40
160	0.845	3.14	340	1.000	4.40
170	0.966	4.11	350	1.000	4.40