

TECHNICAL EXHIBIT
APPLICATION FOR DIGITAL AUXILIARY OPERATION
STATION KSWB-TV (FACILITY ID 58827)
SAN DIEGO, CALIFORNIA
CH 19 30 KW (MAX-DA) 183 M

Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for an auxiliary antenna for DTV station KSWB-TV at San Diego, California. KSWB-TV is currently operating with its main facility located atop *San Mequel Mountain*. KSWB-TV is proposing an auxiliary (stand-by) transmission facility located atop *Soledad Peak* with a maximum effective radiated power of 30 kilowatts.

Auxiliary Coverage Operation Compliance

Figure 1, attached, is a map that demonstrates that the Noise-Limited (41 dBu) contour of the auxiliary facility is fully encompassed within the Noise-Limited (41 dBu) contour of the currently licensed main facility.

Radiofrequency Electromagnetic Field Considerations

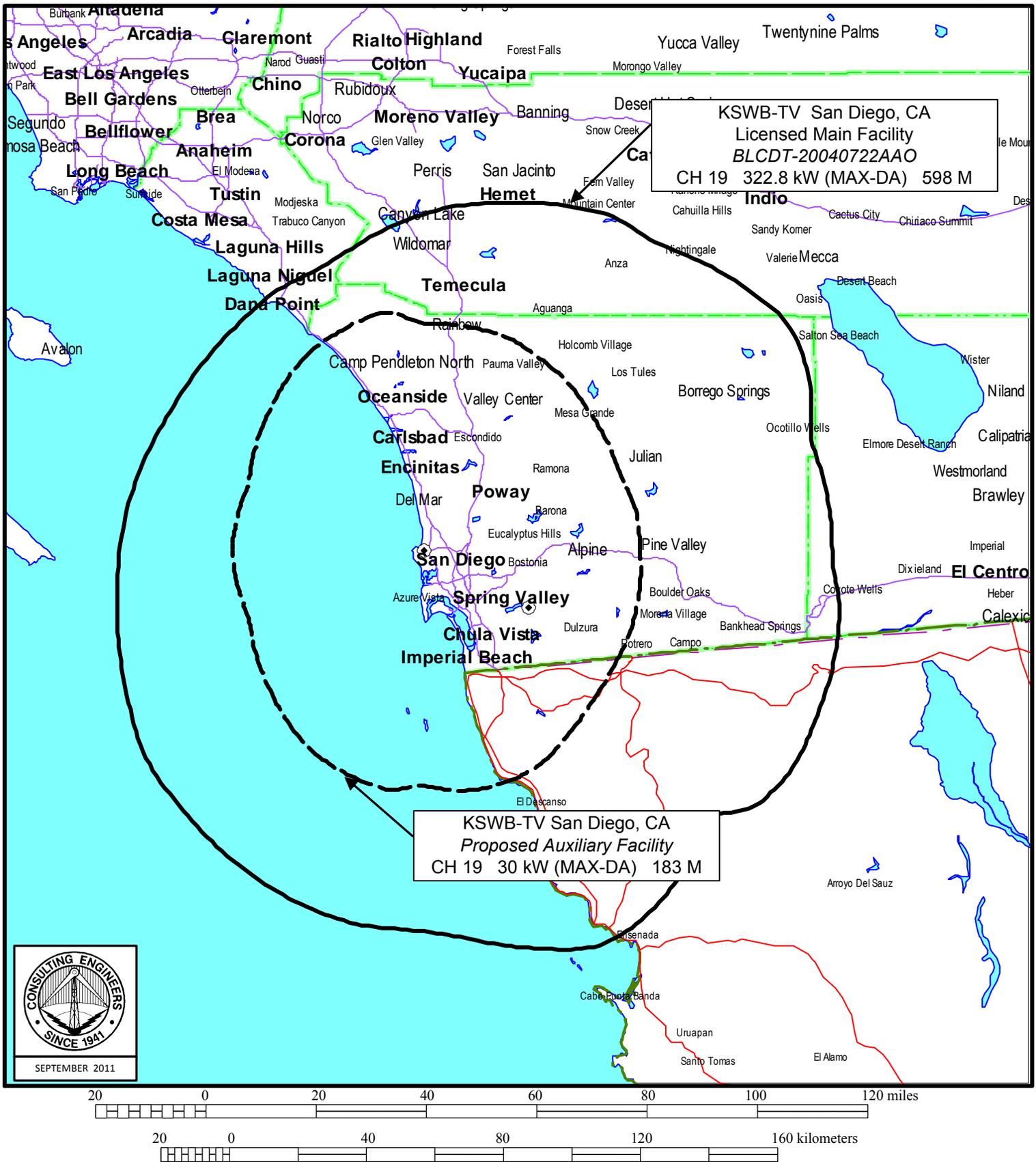
The proposed KSWB-TV antenna is side-mounted on an existing structure. The licensee will conduct a ground level radiofrequency electromagnetic exposure field survey after construction to ensure there are no accessible areas of exposure in excess of the Commission's standard.

Finally, it is noted that this technical exhibit only addresses the potential for radio frequency electromagnetic field exposure. All other aspects of the environmental processing will be or already has been completed by the tower owner.

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FCC PREDICTED NOISE-LIMITED COVERAGE CONTOURS

DTV STATION KTLA – AUXILIARY FACILITY

SAN DIEGO, CALIFORNIA

CH 19 30 KW (MAX-DA) 183 M

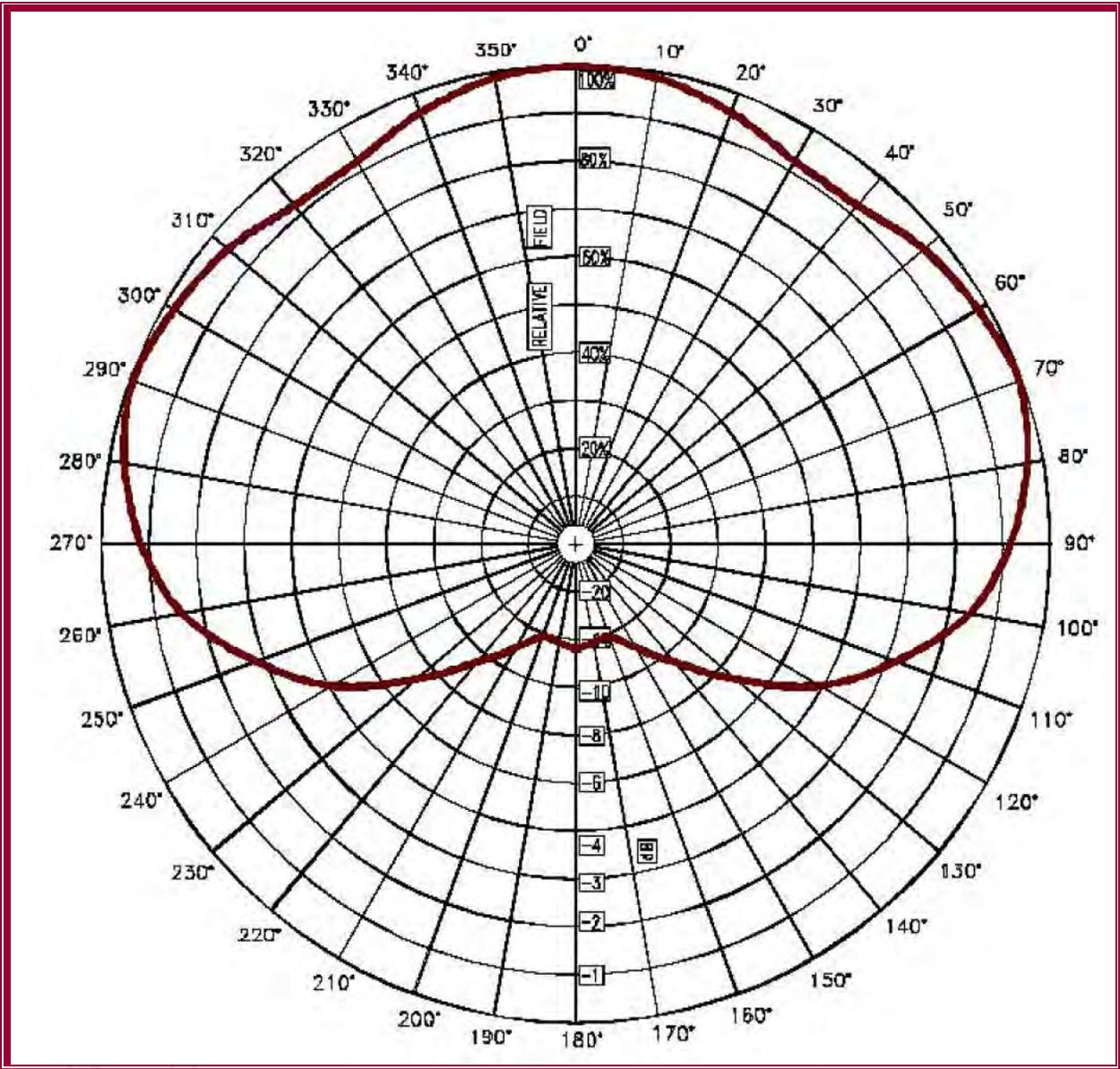
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APPENDIX

TRANSMITTING ANTENNA SPECIFICATIONS



AZIMUTH PATTERN DATA PLOT





AZIMUTH PATTERN TABULATION



FULL CARDIOID UHF SLOT ANTENNA ANTENNA PATTERN TABULATION

0 DEGREES = TRUE NORTH

| AZIMUTH | FIELD | dB |
|---------|-------|--------|
| 0 | 1.00 | 0.00 |
| 10 | 0.99 | -0.09 |
| 20 | 0.96 | -0.35 |
| 30 | 0.92 | -0.72 |
| 40 | 0.92 | -0.72 |
| 50 | 0.96 | -0.35 |
| 60 | 0.98 | -0.18 |
| 70 | 1.00 | 0.00 |
| 80 | 0.97 | -0.26 |
| 90 | 0.92 | -0.72 |
| 100 | 0.85 | -1.41 |
| 110 | 0.72 | -2.85 |
| 120 | 0.60 | -4.44 |
| 130 | 0.44 | -7.13 |
| 140 | 0.32 | -9.90 |
| 150 | 0.25 | -12.04 |
| 160 | 0.20 | -13.98 |
| 170 | 0.21 | -13.56 |
| 180 | 0.22 | -13.15 |
| 190 | 0.21 | -13.56 |
| 200 | 0.20 | -13.98 |
| 210 | 0.25 | -12.04 |
| 220 | 0.32 | -9.90 |
| 230 | 0.44 | -7.13 |
| 240 | 0.60 | -4.44 |
| 250 | 0.72 | -2.85 |
| 260 | 0.85 | -1.41 |
| 270 | 0.92 | -0.72 |
| 280 | 0.97 | -0.26 |
| 290 | 1.00 | 0.00 |
| 300 | 0.98 | -0.18 |
| 310 | 0.96 | -0.35 |
| 320 | 0.92 | -0.72 |
| 330 | 0.92 | -0.72 |
| 340 | 0.96 | -0.35 |
| 350 | 0.99 | -0.09 |



ELEVATION PATTERN

