

## ENGINEERING STATEMENT

1. Coverage Contours: The directional transmitting antenna is a Kathrein-Scala circularly polarized Yagi antenna, Model CA5-FM/CP/RM, with an azimuth heading of 300 degrees True. The principal minima are 80 & 160 degrees True. The attached Figure 1 shows both the 60 dBu coverage contour using the antenna manufacturer's published azimuth pattern as filed in the Construction Permit, and the 60 dBu contour using the composite antenna pattern data measured by Shively Labs. It can be seen that the measured antenna pattern produces a 60 dBu contour that is totally contained within the Construction Permit 60 dBu contour.

2. Special Operating Conditions: The construction permit imposes certain special operating conditions or restrictions, which are discussed below:

A. Compliance with Special Operating Conditions #1 & #4: Attachment A is an affidavit from Shively Labs, detailing the establishing of the horizontal, vertical, and composite azimuth antenna patterns. These patterns demonstrate that they are contained within the limiting pattern of the Construction Permit.

B. Compliance with Special Operating Condition #2: Attachment B is an affidavit from James P. Fallon, Licensed Land Surveyor in the State of California, certifying that the antenna azimuth heading is at 300 degrees True.

C. Compliance with Special Operating Conditions #3 & 6: Attachment C is an affidavit from Tom King, an expert in the field of FM broadcast antenna installations, certifying that the antenna was installed according to the antenna manufacturer's instructions at the location specified in the construction permit.

D. Compliance with Special Operating Condition #5: Request for Program Test Authority is dealt with in Question #5 of this application where Program Test Authority is specifically requested.

E. Compliance with Special Operating Condition #6: Attachment D is an affidavit from Tom King, an expert in the field of FM broadcast antenna installations, certifying that the installation complies with the requirements of FCC OET Bulletin 65 with respect to radio frequency radiation (RFR).

F. Compliance with Special Operating Condition #8: Santa Monica Community District, in coordination with other users of the site, has developed a plan where power will be reduced, or cease operation as necessary, to protect persons having access to the site, tower or antenna(s) from RFR fields in excess of FCC guidelines.

3. Santa Monica Community College District believes that it has complied with all aspects of the Special Conditions specified in the Construction Permit.