

This firm has been retained by Silverado Broadcasting Company to prepare the engineering portion of a FCC-302-FM to cover the installation of a directional FM antenna system at the new KJOY-FM transmitter facility at 4210 Coranado Ave Stockton, Ca. That work has been completed and the results are contained in this report.

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On December 21, 2000 the station received a FCC Construction Permit to build and operate a replacement transmitter facility utilizing a directional FM antenna system.  
Ref: 19991201ABL

This engineer personally worked with the antenna company's engineering staff and technicians during the design, testing and pattern measurements of the antenna system. The antenna system was completely fabricated tuned and tested at the Jampro manufacturing plant prior to shipping. It was shipped to the site fully assembled and was set in place on the top of the existing tower as an single operation by P & R Tower Company of Sacramento, Ca.

The Director of Engineering for Silverado Broadcasting Company personally supervised the installation of the antenna system, coaxial cable, band pass filter and transmitter.

As per special instructions from the antenna manufacturer, the antenna boom heading was set and has been certified by a California licensed surveyor to be oriented to 38.0 degrees "TRUE". The surveyor's certification is attached.

As is demonstrated in the antenna pattern data, the antenna radiation field does not exceed the authorized radiation limits in any direction. The antenna manufacturer's pattern certification and special installation instructions are included as attachments.

The antenna pattern meets the Commission's minimum 85% RMS relative field requirements for a directional antenna pattern.

The predicted 70-dBu contour of the station's antenna pattern covers 100% of the community of license, Stockton, CA as is demonstrated in Engineering Exhibit E-1.

The transmitter site is clear of all obstacles within the aperture of the FM antenna and there are no natural or man made obstructions which would distort the antenna radiation

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