

THOMAS M. ECKELS, PE  
STEPHEN S. LOCKWOOD, PE  
DAVID J. PINION, PE  
ERIK C. SWANSON, PE

THOMAS S. GORTON, PE

JAMES B. HATFIELD, PE  
BENJAMIN F. DAWSON III, PE  
CONSULTANTS

HATFIELD & DAWSON  
CONSULTING ELECTRICAL ENGINEERS  
9500 GREENWOOD AVE. N.  
SEATTLE, WASHINGTON 98103

TELEPHONE (206) 783-9151  
FACSIMILE (206) 789-9834  
E-MAIL [hatdaw@hatdaw.com](mailto:hatdaw@hatdaw.com)

MAURY L. HATFIELD, PE  
(1942-2009)  
PAUL W. LEONARD, PE  
(1925-2011)

**Engineering Statement  
K293CL License Application  
Special Operating Conditions Exhibit  
August 2018**

The K293CL construction permit BMPFT-20180525ABW bears a condition #3, which states:

Since the application proposes to mount its antenna above the co-located existing directional antennas of the following:

K265FH, Cathedral City, CA (Facility ID No. 141752)

K274DA, Thousand Palms, CA (Facility ID No. 141869),

the permittee must submit, with the FCC Form 350, application for license, an exhibit including a statement from the manufacturer of the directional antennas listed above, stating that the proposed antenna will have no adverse effect on the aforementioned directional antenna patterns.

This condition is not, in fact, relevant to the instant K293CL construction permit, in light of the facts regarding the existing K293CL transmitting antenna (see BLFT-20161121ACV), which a) is on this same structure, b) is already located higher on this structure than the K265FH and K274DA antennas, and c) was constructed and licensed prior to the construction and licensing of K265FH and K274DA.

Specifically:

K293CL was constructed, and its license application filed on November 21, 2016.

K265FH was constructed, and its license application filed on September 19, 2017 (+10 months).

K274DA was constructed, and its license application filed on October 18, 2017 (+11 months).

The new K293CL facility retains the antenna position highest on this structure.<sup>1</sup> Given the three-bay, half-wavelength spaced K293CL antenna centered at 18 meters AGL, there are 5.5 meters clearance to the K274DA one-bay antenna at 11 meters AGL, and 8.5 meters clearance to the K265FH one-bay antenna at 8 meters AGL. These clearance values are well sufficient to ensure that the K293CL antenna itself will not disrupt the directional patterns of K265FH and K274DA, given that the minimum clearance requirement in these cases is a single wavelength (~3 meters).

Additionally, since the K293CL transmission line is already existing on this structure, already passes through the K265FH and K274DA apertures, was existing at the time K265FH and K274DA were constructed, and is simply being extended from 20m to 23m AGL, there will be no additional effect upon the K265FH and K274DA directional antenna patterns.

### **Statement of Engineer**

This Engineering Statement has been prepared by Erik C. Swanson. I am a partner in the firm of Hatfield & Dawson Consulting Engineers and am registered as a Professional Engineer in the States of Washington and Colorado. I hereby declare that the facts set out in the foregoing Engineering Statement, except those of which official notice may be taken, are true and correct.

Signed this 10<sup>th</sup> day of August, 2018



Erik C. Swanson, P.E.

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<sup>1</sup> K265GH is located on a separate structure, about 20 feet from the K293CL/K274DA structure, but at the same NAD27 coordinates when rounded to the nearest whole second. This fact does not alter in any way the conclusions reached in this Engineering Statement.

Hatfield & Dawson Consulting Engineers