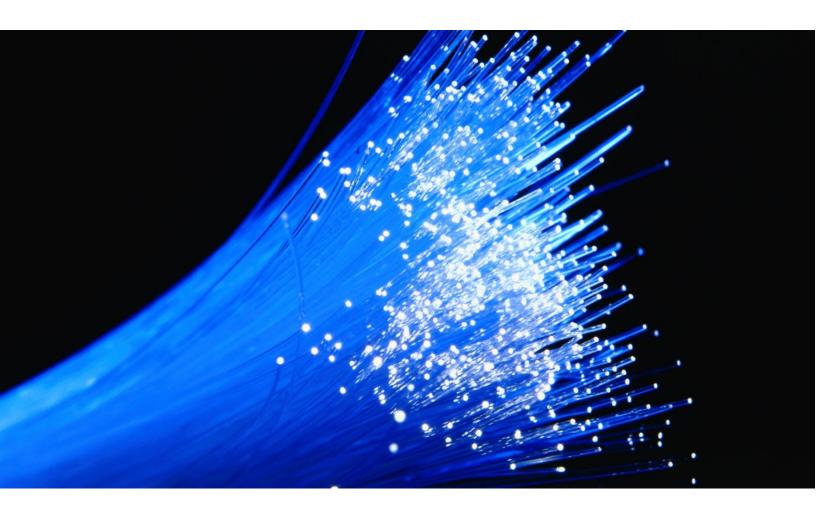
ctc technology & energy

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Sutro Tower Third-Party Observer Report Prepared for Cooper, White & Cooper LLP July 2021

The firm of Cooper, White & Cooper LLP (CWC) hired CTC Technology & Energy (CTC) to act as a third-party reviewer of the RF emissions tests performed by Hammett & Edison on April 7 and 8, 2021, of the RF emissions from Sutro Tower.

CTC Chief Technology Officer and CEO Andrew Afflerbach, P.E., Ph.D., reviewed the test procedure developed by Hammett & Edison, met with Sutro Tower and Hammett & Edison staff at Sutro Tower to review the active antennas and transmitters, verified that the equipment had the appropriate calibration, and accompanied the Hammett & Edison engineers for the field tests.

Dr. Afflerbach observed the measurements taken on the test equipment, verified that the numbers were recorded properly in the data sheets, that the Hammett & Edison engineers were performing the tests correctly, and that the test locations corresponded to those in the test procedure.

In June 2021, Dr. Afflerbach reviewed the Hammett & Edison report to verify that it accurately described the procedure, reviewed the test data, and found that the data was consistent with the data recorded earlier.

Moreover, it is Dr. Afflerbach's professional opinion that the testing protocol is an effective means of determining the RF exposure in the region of the tower, and correctly incorporates the best practices recommended by the Federal Communications Commission (FCC) to measure RF with respect to the recommended limit for the general public/uncontrolled exposure.

CTC concurs that, for the main measurements, the maximum RF exposure level measured at any of the 212 locations surrounding Sutro Tower was 6.0 percent of the applicable FCC public exposure limit. CTC concurs that the maximum RF exposure level measured at any of the 212 locations surrounding Sutro Tower, when all auxiliary antennas are operating, was 29 percent of the applicable FCC public exposure limit.

For purposes of full disclosure, CTC has not worked for Hammett & Edison. CTC reports that it has had many engagements with the City and County of San Francisco over the past 15 years, working with them on broadband planning, digital city master plans, dig once policies, and fiber optic planning.

Best Regards,

Andrew Afflerbach, Ph.D., P.E.

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CEO & Chief Technology Officer