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CONSULTING ENGINEERS  
BROADCAST & WIRELESS

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**BY EMAIL JODIE.GERHARDT@CITYOFPALOALTO.ORG**

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Dear Jodie:

Thanks for accompanying me on the recent visit to the offices at 635 Bryant Street in Palo Alto, across the street from City Hall. As you requested, our visit on May 25 was to assess the actual RF exposure conditions in those offices from operation of the Crown Castle directional antenna mounted on the light pole on the sidewalk in front of the two-story office building.

We met there with two people, Mr. David Saul and Ms. Ellen Ehrenpreis, whose office was on the second floor and at the front of the building, closest to the antenna. Using our Narda Type NBM-520 Broadband Field Meter with Type EF-0391 Isotropic Broadband Electric Field Probe (Serial No. D-0454), under current calibration by the manufacturer, we measured a maximum level of  $0.0001 \text{ mW/cm}^2$  attributed to the Crown Castle operation; this is some 10,000 times below the  $1 \text{ mW/cm}^2$  FCC public limit applying for exposures of unlimited duration. Therefore, compliance with the FCC standard is ensured for this location from the Crown Castle antenna, as installed and operating at the time of our visit.

As you will recall, Ms. Ehrenpreis described an earlier visit by a third party, who used bulky equipment and reported levels as high as "1,230,000 microwatts per square meter ( $\mu\text{W/m}^2$ )," which would be  $0.123 \text{ mW/cm}^2$  in the more standard nomenclature. That figure is more than 1,000 times higher than what our calibrated meter indicated, though that, too, would comply with the FCC limit. I did speak on the phone with that person on my drive home that afternoon; he is not an engineer and, while he promised to provide the specifications for the equipment he used, has not yet done so. In any case, he discounts the FCC standard entirely, especially its measurement protocols.

Please let me know if any questions arise on the visit, our measurements, or the analysis.

Sincerely yours,

William F. Hammett

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