

Temporary Weather Radar for US Open Tennis Tournament

A STA is being requested for operation of a weather radar that will be used in conjunction with the US Open Tennis Tournament that will be held at the Billie Jean King National Tennis Center, Flushing, NY. The radar will be located on the rooftop (approximately 20 meters AGL) of the Red Carpet Inn 980 Wyckoff Avenue Brooklyn, NY approximately 7.7 km from the event location. A UHF data link with a directional antenna will relay the radar data back to the tennis center where it will be used to advise the event staff of any impending weather events that could impact the tournament schedule or endanger the participants and/or spectators.

The radar will operate on 9,410 MHz with an output power of 25 kW into an antenna with a gain of 38.5 dB producing an ERP of 177 MW. The pulse duration will be 1.2 μ seconds with a maximum repetition rate of 1,500 Hz. Access to the roof area will be restricted and the appropriate RF Radiation Hazard signs will be posted. A survey of the site indicates that all other buildings within a 1.5 mile radius are below the height of the radar location; therefore, based on the equipment parameters there is no predicted unacceptable RF exposure to either workers or the general public.