

Engineering Exhibit
Displacement Application for W26DC-D

Environmental Effect: The proposed transmitting facilities have been evaluated for radiofrequency radiation exposure to humans in accordance with OET Bulletin No. 65. The transmitting facilities will not cause human exposure to levels of radiofrequency radiation in excess of the limits in §1.1310 of the Commission's rules. There is no public access permitted to the Station's transmitting facilities. Hence, there will only be controlled exposure and such exposure will be less than permissible limits, based on the following:

Radiation center above ground: 208.1meters; Support structure height: 205.1 meters

Radiation center above roof: $208.1 - 205.1 = 3.0$ meters; R/C above human head: $3.0 - 2.0 = 1.0$ meter

Maximum power density allowed at human: $575 \text{ MHz}/300 = 1.90 \text{ mw/cm sq.}$

Actual power density at human: $33.4 \times .03 \times .03 \times .2 \text{ kw}/1 \times 1 = .006 \text{ mw/cm sq.} < 1.90$

Notwithstanding the foregoing, the Applicant will cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmitting facilities as necessary to avoid potentially harmful exposure to personnel.

Contour Overlap: See map at **Attachment I** showing overlap of existing contour of W26DC-D with proposed contour.

- Open Street Map
- USGS Topo
- USGS Topo 4 Imagery
- USGS Imagery
- USGS Shaded Relief

