

Exhibit #22

R.F. EMISSIONS COMPLIANCE STATEMENT

AMERICAN UNIVERSITY

Minor Change
WAMU Auxiliary
BLED-19920805KC
Washington, DC

June 2008

CH 203B1

8.0 kW H & V

The applicant proposes to use an existing registered tower (ASR #1018169), built in 1998. As this tower was constructed before March 2001, no further NEPA testing was deemed necessary.

The proposed four-bay, circularly polarized antenna will be energized such that it produces 8.0 kW effective radiated power from a center of radiation of 117 meters above ground. Using the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", published by the Federal Communication Commission's Office of Science and Engineering, and then by applying a combination of the element and array pattern as defined in E.P.A. study PB85-245868 (**"Engineering Assessment of the Potential Impact of the Federal Radiation Protection Guidance on the AM, FM and TV Broadcast Services"**.) the following table of exposure levels were developed for six common antennas.

Antenna (Type#)	Level at 2 m above ground ($\mu\text{W}/\text{cm}^2$)	% of maximum Uncontrolled area
Jampro (#2)	2.830	1.41
ERI (#3)	1.213	0.61
Dielectric (#5)	3.234	1.62
Shively (#6)	0.202	0.10
Dielectric DCRM (#7)	1.341	0.67
Dielectric DCRQ (#8)	2.036	1.02

After researching the Mass Media and ULS databases, it was determined that there are six other sources of RF emissions on the tower. The communications antennas (KNKM494, WPPH710, WPPY565, WPXS889 and WQBL432) are categorically excluded. The remaining radiator is a combined FM antenna with WETA (75 kW), WGTS (23.5 kW) and WAVA-FM (33 kW), for a combined ERP of 131.5 kW. The Shively 6017-6-.99SS antenna is mounted 139 meters above ground. The predicted level of RF non-ionization emissions at a position of 2 meters above ground (head-height) at the base of the tower for the proposed 6-bay. 0.99 wave spaced Shively 6017 (Type #6) antenna is $2.314 \mu\text{W}/\text{cm}^2$, which is 1.16 percent of maximum for an uncontrolled area.

The total maximum contribution of all non-excluded antennas is $5.548 \mu\text{W}/\text{cm}^2$ (using the greatest contributor of the six common antennas listed above, the Dielectric Type #5), which is 2.78 percent of the maximum for an uncontrolled area.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission.

Consequently, it appears that the proposed FM auxiliary station, when using one of the six common antennas listed above, will be in full compliance with the Commission's human exposure to radiofrequency electromagnetic field rules and regulations.