

## **Exhibit 18.1**

### **Radiofrequency Radiation Guidelines Compliance Study**

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This instant application has been evaluated for potential of human exposure to non-ionizing radiofrequency radiation. The guidelines set forth in OET Bulletin No. 65 (Edition 97-01) and the companion Supplement A (Edition 97-01) were used as the standard for this evaluation. There are no other AM, FM or TV sources of radiation within 315 meters of the site.

The 690 kHz, WIST(AM) daytime operation will be reduced from a 10.0 kW four tower inline array to an 8.0 kW non-directional operation at the present site. The daytime non-directional facility uses a single vertical element which is  $89.5^\circ$  in electrical length or  $0.249 \lambda$  (wavelength) for operation on 690 kHz. The WIST(AM) nighttime facility will be reduced from a 5.0 kW four tower inline array to a 2.5 kW three tower inline array at the present site. Tower 1 of the nighttime array will employ a vertical element which is  $89.7^\circ$  in electrical length or  $0.249 \lambda$  (wavelength) for operation on 690 kHz. Tower(s) 2 and 3 of the nighttime array will employ vertical elements which are  $85.9^\circ$  in electrical length or  $0.239 \lambda$  (wavelength) for operation on 690 kHz.

For purposes of this the maximum daytime power level of 8.0 kW has been assumed to be present in each tower. Table 2 of Supplement A specifies for 0.21-0.4 wavelength AM towers operating on 690 kHz with a total input power of 10.0 kW or less, the non-ionizing radiation will fall to safe levels at distances of 2 meters (6.6 feet) or more. Public access will be restricted to each tower to achieve this level of protection either by means of fencing or locked gates. In addition to these measures, signs will be posted warning of the potential for exposure to excessive levels of non-ionizing radiofrequency radiation.

In the event maintenance personnel are required to work within the restricted area, they will be advised to limit their work in the high RF field areas to specified periods of time appropriate for compliance with the FCC guidelines set forth in OET Bulletin No. 65 (Edition 97-01). If their work cannot be completed within the specified period of time, it is proposed to reduce power appropriately or shut down the operation of the station to permit completion of the assignment. There are no additional sources of radiofrequency radiation subject to the guidelines of OET Bulletin No. 65 (Edition 97-01) at this location.