

Anchorage Monitoring Station

The proposed site is located 7.3 kilometers from the site of the Commission's Anchorage Monitoring Station at NL 61E 09' 43" x WL 149E 59' 55", and 7.90 kilometers at 310E True from the site at NL 61E 09' 57" x WL 150E 00' 28" which is the measurement location used by the Anchorage Monitoring Station (as reported by monitoring station staff to Jay White, Chief Engineer of Morris Communications). This application proposes the use of a directional antenna pattern which limits the effective radiated power of KMXS in the direction of the Anchorage Monitoring Station in order to ensure a measured field strength of no more than 27 mV/m at the monitoring station measurement location.

Informal measurements made using the antenna pattern proposed herein (using an ERI Model LP-8C-DA-HW antenna) and a maximum lobe ERP of 23,500 Watts, indicated a measured field strength of 14 mV/m at the monitoring station measurement location. Since the field strength at a given distance is proportional to the square root of the ERP employed, it is expected that full 51,000 Watt operation with this antenna will result in a field strength of 21 mV/m at the monitoring station measurement location.

The station is prepared to fully cooperate with the Commission's requirement to protect the operation of the Monitoring Station and will accept the following conditions, if required:

"The authority granted herein is subject to the condition that, in the event of interference at the facility, the licensee shall take such immediate corrective action as is necessary to eliminate the interference. If these measures fail to eliminate interference, the licensee shall immediately reduce power and/or adjust antenna parameters to comply."

Hatfield & Dawson Consulting Engineers