

KOIR-FM, Edinburg, TX (Fac. Id. 56478)
Engineering STA Justification

On April 29, 2023, significant storm activity occurred in the area of KOIR's transmitter site, and it is believed that the antenna was struck by lightning, temporarily halting station operations. On May 1st, KOIR operation was restored at the licensed 2.20 kW transmitter output power until May 3rd, when RF power became unstable and TPO was reduced to 1.5 kW. On May 2, tower climbers determined that the tower was unsafe to climb and nothing more could be done to repair the antenna system. On May 5th, KOIR raised the TPO to 1700 watts, and then on May 7th to 1800 watts. An attempt on May 8th KOIR's attempt to raise the TPO to 1.95 kW caused the transmission system to become unstable. KOIR lowered TPO to 1.8 kW and has continued to operate at that level with the transmission systems remaining stable. Based on the above actions, KOIR has concluded that it cannot maintain at least 90% authorized transmitter output power as required by 73.1560(b).

Given all technical information available, KOIR believes the physical damage to its antenna system is small but because of the tower condition, repairs cannot be completed and operations at a TPO of 1.8 kW will have to continue until an alternate site can be identified for permanent operations. At that time, KOIR will seek a construction permit for modified facilities.

KOIR is licensed with an effective radiated power of 3.0 kW, but with the reduced TPO will only be able to achieve an ERP of approximately 2.46 kW. Until then, KOIR respectfully requests special temporary authority for at least 180 days to operate with a TPO of 1.8 kW and ERP of 2.46 kW so that it can continue to provide programming to the public.