

**TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT**

**NEW NCE FM STATION
CRAWFORD, NE
CH 201A 6 KW 3 M**

Technical Specifications

Channel / Frequency	211A / 90.1 MHz
Site Coordinates (NAD '27)	42° 41' 17" North Latitude 103° 24' 29" West Longitude
Site elevation	1149 m. AMSL
Overall height of planned structure	60 m. AGL / 1209 m. AMSL
Height of antenna radiation center	55 m. AGL / 1204 m. AMSL
Antenna radiation center	3 m. HAAT
Transmitter	(as required)
Transmitter power output	3.05 kW
Transmission line	Andrew, HJ7-50a*
Transmission line length	60 m. (100 ft.)
Transmission line efficiency	90.5 %
Antenna	4-bay Circular Polarized Dielectric DCR-H4
Polarization	Circular
Power gain	2.12
Antenna input power	2.83 kW
Effective radiated power (H & V) *or equivalent	6 kW