TECHNICAL SPECIFICATIONS
APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION STATION WSST-TV
CORDELE, GEORGIA
CHANNEL 22 80 KW 111 M HAAT

Channel	22
Frequency	518-524 MHz
Antenna Structure Registration Number	1025900
Site Coordinates (NAD 27)	31°53'35.4" North Latitude 83°48'18.4" West Longitude
Site elevation above mean sea level	90.8 m
Average elevation above mean sea level of 8 equally spaced radials, 3 to 16 km	98 m
Overall height of structure	
Above ground	129.2 m
Above mean sea level	220.0 m
Height of antenna radiation center	
Above ground	118 m
Above average terrain	111 m
Above mean sea level	209 m
Transmission line	Commscope model HJ8-50B (3-inch heliax)
Length	466 ft (142 m)
Efficiency (1.73 dB loss)	67.1%
Antenna	ERI model ALP24L3-HSO-22
Type	non-directional
FCC Antenna ID	none
Polarization	horizontal
Nominal power gain	25.2 (14.02 dB)
Electrical beam tilt	0.75°

Proposed Operation	
Parameter	DTV
Transmitter power output	6.71 dBk (4.7 kW)
Transmission line loss	1.73 dB
Antenna input power	4.98 dBk (3.1 kW)
Antenna gain	14.02 dB
Effective radiated power	19.0 dBk (80 kW)