

(6) System Description.

(a) Antenna. The antenna system proposed was manufactured by Electronics Research Industries and bears ERI designation G5CPM-3C. The antenna consists of three full wave spaced bays, circularly polarized, fed at the end with 3" Flexwell type air filled transmission line. The antenna is known in the trade as the "Rototiller". The antenna is omni-directional. The antenna RMS power gain is 1.5588 (1.9278 db.) in vertical & horizontal planes. The antenna is side mounted on the tower with the electrical centre 100m AGL, 101.2m AMSL. The electrical centre will be 95.8m AAT.

(7) Summary.

Channel - 288A      Frequency - 105.5 mhz.

Co-ordinates - 29-46-26 N    91-30-32 W

Transmitter - Type accepted.

Transmission Line - 110m Celwave HCC 300-50J Heliax cable or equivalent. (Attenuation - 0.419 db/100m)

Antenna - ERI G5CPM-3C

Tower - 103m AGL 104.2m AMSL overall height.

Radiating Centre - 100m AGL 100m AAT  
101.2m AMSL

ERP

Tx pwr out	6.0446 kw.	7.8137 dbk.
Line loss	-0.6076 kw.	-0.4601 db.
AM isocoupler loss	-1.5880 kw.	-1.5000 db.
Antenna Pwr in	3.8490 kw.	5.8536 dbk.
Antenna Gain	x 1.5588	+1.9278 db.
ERP (RMS)	6.0000 kw.	7.7800 dbk.