



# Federal Emergency Management Agency

Region III Federal Regional Center  
5321 Riggs Road Gaithersburg, Maryland 20879

Dear Sir:

In response to your inquiry, we are pleased to provide you with the following information concerning WGU-20.

The Decision Information Distribution System (DIDS) has the capability of notifying Federal, civil authorities, State officials, and the civilian population of emergency situations. Coverage extends in a 400 mile radius from the transmitter location near Edgewood, Maryland.

Station WGU-20 operates on an assigned frequency of 179 KHZ and is of all solid-state construction, capable of an output power of 55 KW. Pulse width modulation is utilized to accomplish the A.M. or FSK mode of transmission. The underground station was designed to operate unmanned. The control point is located some 60 miles distant from Edgewood. Various station parameters are monitored by computer.

The antenna is a 700' vertical, 10' faced, top-loaded structure; 180 ground radials, 750' in length, are utilized for the ground plane. Transmission lines are typically 3 1/8" diameter. An L/C network is used for impedance matching at the base of the antenna.

QSL cards are not available for WGU-20 signal confirmation. A similar format for verification is as follows:

Confirming Reception of WGU-20

Date: 13 Nov. 84

Time: 9:54 p.m. E.S.T.

Mode: A3

Freq.: 179 KHZ

Power Output: 10 KW.

Antenna: 700' Vertical, Top loaded

Your interest and signal report in regard to our broadcast are appreciated.