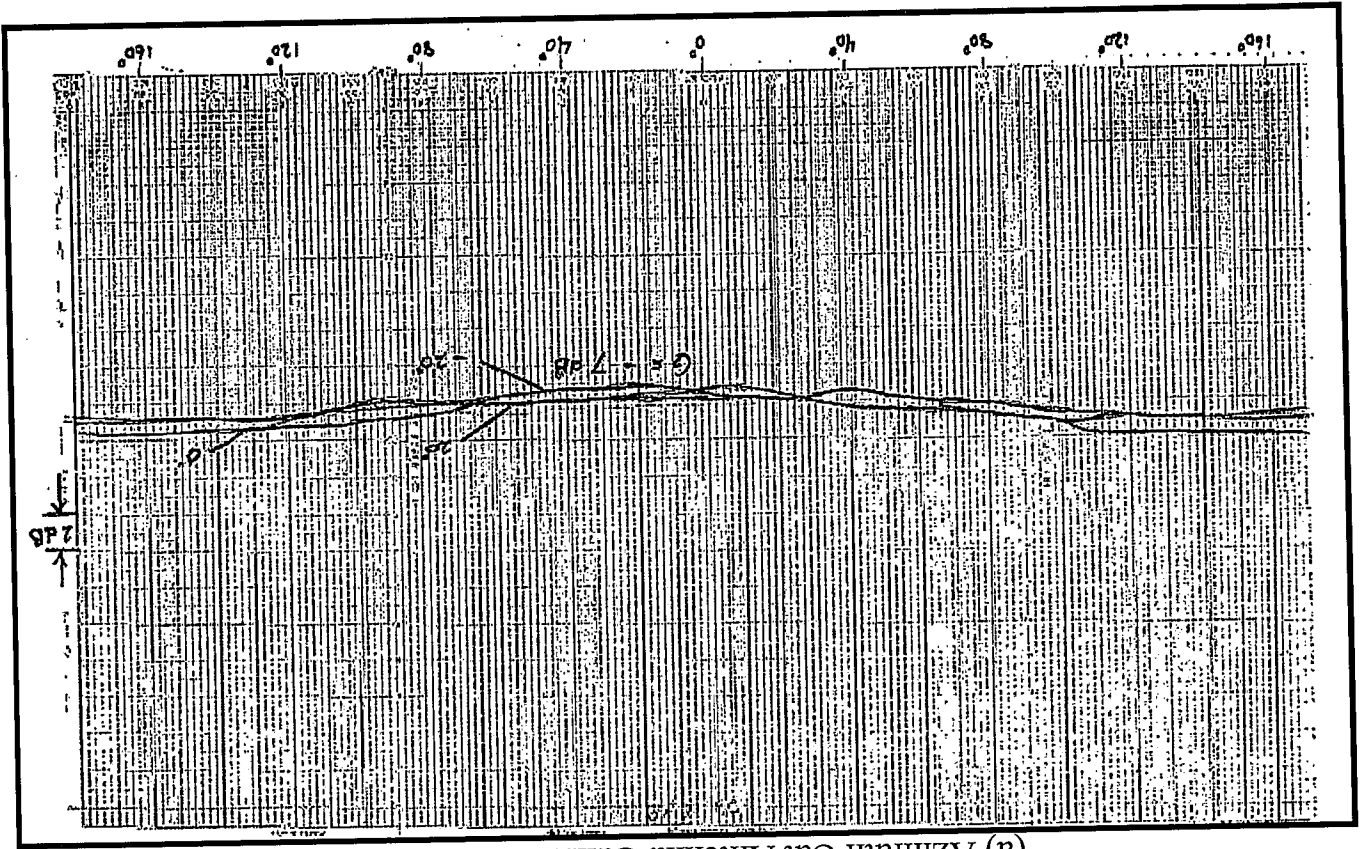


- Notes:
- 1) Gain variation in azimuth shown for elevation angles of 0° and ±20°.
  - 2) The x-axis represents the azimuth angle and spans from -180° to +180°. Each major axis division line represents 20° of azimuth.
  - 3) The y-axis represents the antenna gain. Each major axis division line represents 2 dB of gain.



(a) Azimuth Cut Antenna Gain Pattern

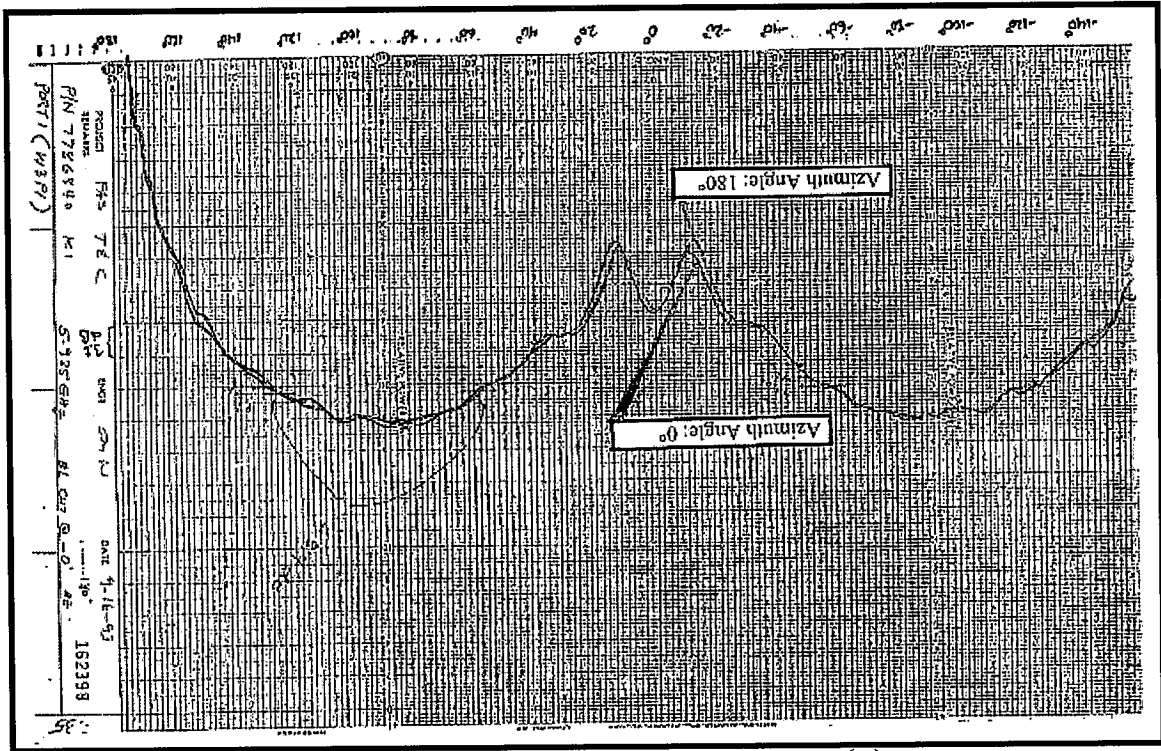
Beam Polarization: Horizontal  
 Peak Antenna Gain: 2.0 dBi  
 Beam Peak G/T: -28.9 dB/K  
 Command Threshold Flux Density @ Beam Peak G/T: -96.3 dBW/m<sup>2</sup>  
 [Schedule S Beam Designation: C MDB]

**Exhibit 20: C-Band Command Beam - Emergency**

**Exhibit 20: C-Band Command Beam – Emergency (continued)**

Beam Polarization: Horizontal  
 Peak Antenna Gain: 2.0 dBi  
 Beam Peak G/T: -28.9 dB/K  
 Command Threshold Flux Density @ Beam Peak G/T: -96.3 dBW/m<sup>2</sup>  
 [Schedule S Beam Designation: C MDB]

(b) Elevation Cut Antenna Gain Pattern



Notes:

- 1) Gain variation in elevation shown for the azimuth angle of 0° and 180°.
- 2) The x-axis represents the elevation angle and spans from -140° to +180°. Each major axis division line represents 20° of elevation.
- 3) The y-axis represents the antenna gain. Each major axis division line represents 3.2 dB of gain.