

Time Domain Corporation  
Experimental STA Request  
December 30, 2002  
File No. 0469-EX-ST-2002

## **Exhibit 1**

### **Signal Description**

This request seeks authority to demonstrate prototype equipment that uses the “time modulated” ultra wideband (UWB) technology developed by Time Domain Corporation (“Time Domain”). The device to be demonstrated is:

#### **RadarVision™**

RadarVision™ generates a signal that is unmodulated in the sense that it does not convey information. The device is used to determine the presence of persons behind walls. It was the subject of a limited waiver granted by the Office of Engineering and Technology. See Letter of June 29, 1999, from Dale Hatfield, to David Hilliard, Counsel for Time Domain. See Exhibit 3 of this request. The position of the unmodulated pulse employed by the RadarVision™ is varied in time so as to produce a spectrum that approximates gaussian noise.

If an emission designator were to be applied to this device, Time Domain believes that 2G00P0N would be descriptive of the signal. The nominal center frequency of the signal is 2.0 GHz. The radiated power is below the Part 15 general limits. For the purpose of this STA, it should be specified as < -73 dBW/MHz. The total radiated power is 36 microwatts EIRP.