

Time Domain Corporation
Experimental STA Request
June 4, 2002
File No. 0214-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 devices to be demonstrated are:

PulsON™ Application Demonstrator (PAD)	The PAD is a laboratory evaluation device only and is not marketed. The PAD will use an omni-directional Time Domain Diamond dipole antenna. Note that this antenna has virtually no gain across the spectrum of the transmitted signal, unlike a classic reference dipole designed for narrowband operation.
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SoldierVision™	SoldierVision™ 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 SoldierVision™ is varied in time so as to produce a spectrum that approximates gaussian noise.
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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.