

Time Domain Corporation
Experimental STA Request
September 12, 2001
File No. 0332-EX-ST-2001

Exhibit 1

This STA proposes operation at the World Trade Center in New York at the site of the September 11 plane crashes. Operations would be conducted in cooperation with the New York authorities responsible for conduct of rescue operations to whom an invitation to use the equipment is being extended.

The equipment to be used is prototype equipment designed for through-the wall radar applications. It would be modified for the proposed application. The modification would result in a radiated power of up to 1 mW eirp, which is far greater than the Part 15 general limits. The added power is requested in order to deal with the need to search through far more absorbent materials than the walls through which the equipment is designed to operate.

The equipment can be switched off immediately if harmful interference is suspected. A Time Domain engineer will be sent with the equipment. At this moment, Time Domain is not certain that its offer of the equipment will be accepted, given the state of the hardware development. If the offer is accepted, attempts to find persons trapped in the rubble must be made over the next 24 hours. A mobile phone number will be provided to OET staff and to NTIA staff for contact with the Time Domain engineer at the scene.

The Equipment is a prototype equipment that uses the "time modulated" ultra wideband (UWB) technology developed by Time Domain Corporation ("Time Domain"). The device is a field disturbance sensor, the RadarVision™. This device 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 antenna to be used for the RadarVision™ is that which was approved under FCC ID NUF-CW, except that this demonstration equipment does not contain a

deadman's switch. The equipment does, however, include a timer that limits transmit time to a maximum of 20 minutes.