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### **New Technology Introductory Disclosure**

This is a non-confidential introduction of a new method of communication. The purpose of this outline is to explore any possible interest you may have in this new technology.

### **General Description**

The invention, NSR, fully optimizes the use of the electromagnetic spectrum by increasing the information content per hertz of bandwidth by many orders of magnitude over current communication methods. The narrow bandwidth capability of NSR can be used with both analog and digital communication methods.

For digital communication, NSR supports data rates that exceed millions of bits per hertz of bandwidth. For analog communication, even at low frequencies, NSR allows thousands of TV-type transmissions within the AM radio band. At higher frequencies, NSR would carry millions of TV-type transmissions per megahertz of bandwidth. The high data rates and narrow bandwidth of NSR solves the current and future needs of increasing global communication requirements.

Not only does NSR use bandwidth more efficiently, but it is also compatible and non-interfering with current communication methods. NSR will not interfere with current services nor will current services interfere with a signal using NSR. Furthermore, a signal transmitted using NSR can be invisible. This makes it impossible for unintended recipients to decode, find the source, or even detect the existence of the transmission. These features make NSR secure and easy to implement without disruption to current communication methods.

### **Commercial Applications**

The technological advantages of NSR make it an ideal replacement for all current communication methods. The abundance of available spectrum using NSR makes it perfect for use in cell phone and other mobile communication devices. NSR significantly reduces the cost of limited bandwidth associated with current methods.

The high data rates are able to increase the capability of cable and satellite systems and the non-interfering nature of NSR allow for TV or broadband Internet to be available over the existing power lines. NSR would allow fast and secure distribution of broadband video on demand.

### **Military Applications**

NSR is also ideal for military applications, including friend or foe tracking, identification, and tactical communication. The invisibility of NSR provides an undetectable source for missile control and targeting systems. A GPS system using NSR would be undetectable and not usable by an enemy, while remaining effective under strategic or tactical conditions. NSR offers great improvements to unmanned vehicle control and observation platforms. Although no experiments have been done at this time with radar, it should be possible to produce a stealthy radar system using NSR technology.

The use of NSR goes well beyond the limited applications expressed here. If you have any interest, questions, or need additional information, please contact me.

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