

NATIONAL FOOTBALL LEAGUE

Super Bowl, February, 2007 Special Temporary Authorization Request

Statement of Experimental Purpose

The coordination of frequencies, and spectrum management and planning at a major sporting event held in an urban environment is an engineering challenge. The Society of Broadcast Engineers, Incorporated (SBE) and the National Football League have jointly developed a prototype program of frequency coordination and spectrum management for such events. It is the intention of SBE to extend this program to other event venues, such as NASCAR, the Olympics, Major League Baseball, and other events at which the demand for spectrum far outstrips the availability of allocated spectrum.

The Super Bowl is the annual event which is the ultimate challenge in RF spectrum management and private sector, real-time frequency coordination. The engineering techniques for insuring compatible RF use by all concerned, though reasonably well-developed in less congested RF environments, is tested to the extreme at the Super Bowl. The use of the T-band channels proposed herein is to facilitate both the operations of the Super Bowl and the coordination of the RF environment in it, and to develop protocols for successful, interference-free, compatible spectrum sharing.

In addition, the frequency coordinators will be testing a new linked repeater system, enabling the frequency coordinators to talk, via linked, extremely low-power repeaters, from inside an enclosed stadium to the outside secured perimeter, for coordination purposes.