Immersion Entertainment, L.L.C.
Section 5.57 Narrative Statement, Exhibit A
FCC Experimental Application, Form 442

The applicant is a telecommunications research and development firm which has developed a proprietary system for gathering and distribution of video and audio signals for viewing by subscribers at a motorsporting or other live sporting event using Head Mounted Displays (HMDs). The system involves the combining of multiple audio signals with selected television camera video mounted at various locations during the event, including those within or atop the racing cars, or on participants, such as skier helmet cameras. The video and audio feeds will be obtained from video production companies on site, and form no part of this experimental facility. The experimental authorization will address only the wireless distribution of the video and audio feeds to the subscribers in the stands at the race course.

The system combines various automobile racing audio feeds, such as broadcast audio, certain Part 90 two-way radio communications concerning the event which are subject to reception and disclosure, and other inputs with the in-car camera video signal. This is made available to viewers in the stands via stereo headphones and an HMD via a single, low-power UHF television transmitter operating on unused UHF television channels, so as to enhance the event for spectators. The wireless distribution system, from the single transmitter to the subscribers HMDs requires experimental authorization due to the use of Part 73 television channels. Within the motorsports track area, the video and audio signals to be distributed are fed into a low-power UHF television broadcast transmitter and small antenna, which transmits the combined signal to subscribers within the confines of the track. The HMD is connected to a battery-operated receiver acting as a TV tuner which de-multiplexes the signal for viewing on the HMD.

The experimental proposal involves the use of a single, low-power transmitter, with a broadband, type-accepted amplifier on unused UHF television channels. The channel selected will be in each case not less than 70 miles distant from the nearest co-channel NTSC or DTV broadcast facility, including low-power television stations and translators. Transmitter power within the racetrack area will be not more than 20 watts TPO. A certificated broadband amplifier will be used, and the system will be capable of station identification. The transmitting antenna will be an omnidirectional, biconical monopole manufactured by TMC Design Corporation, model number BM-03-A/C-L, which has a gain of minus 3dB, ground-mounted near the center of the racecourse. Transmissions from any location will be temporary, limited at each racecourse to the duration of the race, save for brief, necessary pre-race testing of facilities.

This proposal is necessary for development of the system and testing of the concept, as per Section 5.202(i) and in order to gather information preparatory to the filing of a rulemaking petition to permit permanent, licensed operation of these facilities for the benefit of fans of outdoor sporting events, especially motorsports events.

Consistent with Section 5.65 of the Commission's Rules, the applicant will contact the District Director in the appropriate area prior to commencement of operations at any location. The applicant will also coordinate all operation with the SBE frequency coordinator at the appropriate area prior to commencement of operation. Operation will cease at any racecourse venue in the event of interference to over-the-air television broadcast reception, though none is anticipated, given the operating parameters proposed and the geographic separation between co-channel television stations.

The technical contact person for this authorization will be Mr. Mark Wood, who can be reached at (770) 368-2488, or by e-mail at markalanwood@worldnet.att.net. Other inquiries should be addressed to communications counsel, Christopher D. Imlay, at (202) 686-9600, or by e-mail at bfitpc@aol.com.