



To: FCC Radio Licencing
Of: FCC

From: George Hogan
Of: The Wireless Works (UK) Ltd

Date: 22nd November 2004
Ref: Request for STA temporary trunked radio system, system technical information.

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Request for Special Temporary Authorisation of Temporary Short Term Event Radio System.

Dear Sirs

I am engineering a temporary system for the IBM/Lotusphere convention in Florida in January 2005. Please can you licence the following spectrum under a special temporary authorisation.

Venue: The Dolphin Hotel
1500 Epcot Resorts Boulevard
Lake Buena Vista
Florida
32830-2653 USA

Dates: 20th January 2005 to 28th January 2005 Inclusive. System will be removed from the USA on 29th January 2005.

Requirements: 255 Handportable radios with a trunked radio system for audio, audio Visual and convention staff communications.

Spectrum: 10 duplex pairs in the band 450 to 470MHz, if possible can these be allocated in the band 451.0250 MHz to 451.2500 MHz paired with 456.0250 MHz to 456.2500 MHz as this allocation has been successfully used before for a similar system at this venue. The feeder system includes amplifiers (cell enhancer) and as such please assign all the portable transmit frequencies in one 250KHz block.

Preferred frequencies:	Base TX MHz	Portable TX MHz
	451.0250	456.0250
	451.0375	456.0375
	451.0750	456.0750
	451.0875	456.0875
	451.1000	456.1000
	451.1375	456.1375
	451.1500	456.1500
	451.1625	456.1625
	451.1750	456.1750
	451.2125	456.2125



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Location of Base Station:

Walt Disney World Dolphin Hotel, Orlando Florida, Latitude 282204N,
Longitude 813320W

Base Station Equipment:

Type: Motorola GM360 fitted with ferrite isolators and hybrid combiner. A transmit bandpass filter is fitted. All equipment meets or is better than the EU specification ETS 300-086 and RTTE for 12.5KHz channel bandwidth equipments.

ERP: 10 Watts per channel from the roof of the Walt Disney World Dolphin Hotel Orlando florida. The antennae height is 40m (approximate) above ground level. Directional antennae with mechanical downtilt are used to provide controlled coverage. Transmitter power output (TPO) is less than 2W per channel (1.5W per channel at combiner output).

Bandwidth: 12.5KHz channels with peak deviation of +/- 2.5KHz. Signalling is FFSK to UK MPT1327 and MPT1343
Spurious emissions less than -36dBm conducted (base equipment). Less than -36dBm conducted below 1GHz and less than -30dBm conducted above 1GHz (portable equipment)

Emmission: 11K0F3E and FFSK in 12.5KHz channel as above.

Frequency stability: better than +/- 2.5ppm under all conditions

Cell Enhancer Equipment ERP: 10mW output per channel and all spurious less than -36dBm.

Channel allocation protocol:
The system controller implements 'level 1 monitoring' as required by 47 CFR 90.187(b) to prevent traffic allocation on channels with co-channel signals from other systems.

Portable equipment:

Type: Motorola GP680 to ETS 300-086 and RTTE. EWP 1Watt handheld. Bandwidth 12.5KHz. Emmission 11K0F3E. Quantity of units = 225.

Legal Name in USA for representation:

The Wireless Works UK
c/o Ms Rachael Bickerton
A88 62 Park Terrace West
New York
NY 10034
Tel: +1 (212) 613 3130
Fax: +1 (212) 613 3146

Contact telephone for engineering technical information:

George Hogan
+44 7802 301 625

Best regards

George Hogan (sent electronically)