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Paul Krebs
Manager
U.S. Spectrum Regulations

Sept. 14, 2001

Mr. Carl Huie
Federal Communication Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA. 15251-5320

RE: Special Temporary Authorization Application (STA)

Nortel Networks hereinafter referred to as "Nortel", wishes to apply for an Experimental STA, to aid in the Red Cross relief effort at the disaster area in New York City, World Trade Towers. This GSM cellular system would be deployed for pico cell coverage within the general area of the World Trade Center complex. Nortel is requesting this experimental STA per the requirements and guidelines set forth in CFR 47 sections 5.55 and 5.56. This system will be deployed for the duration of clean up/emergency operation

Nortel Point of Contact

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The class of station is Fixed and Mobile and nature of service is Telephony.
Antennas will not exceed 20 feet above the ground.

Requested Channels: 12 6 ea..Trans, 6 ea. Rec.

Product Description:

Mobile Handset Information:

MS Output Power : 1W(30dBm)
Mobile Antenna Gain : 0dBi

Station Class:MO

Frequency: 1710 to 1785 MHz

BTS Information:

BTS Output Power: 20W(43dBm)
Emission Type: 311KGXW

Station Class: FX

Frequency :1805 to 1880 MHz

Antenna Height: 20 ft AGL
BTS Antenna Gain: 12 dBi
Sectors: 1 (Omni)
Power EIRP: 55dBm

Misc. Notes:

Frequency of operation: GSM 1800: Uplink Frequency: **1710 to 1785 MHz** Downlink Frequency :**1805 to 1880 MHz** with duplex spacing of 95 MHz resulting in 374 Channels of 200 KHz each. Channels are numbered from **512 to 885** and are referred to as the **Absolute Radio Frequency Channel Number (ARFCN)**. The applicable frequency formula for GSM 1800 are:

$$F_{\text{uplink}}(n) = 1710 \text{ MHz} + (0.2 \text{ MHz}) * (n-511)$$

$$F_{\text{downlink}}(n) = F_{\text{uplink}}(n) + 95 \text{ MHz} \text{ where } n=\text{ARFCN}, 512 = n = 885$$

Should you have any question please feel free to contact me at 972-685-7123

The original of this application and fee processing form with credit card payment has been sent by express courier to the FCC c/o The Mellon Bank, 3 Mellon Bank Center, 27th Floor, Room 153-2713, 525 William Penn Way, Pittsburgh, PA. 15259-0001, Attn: Wholesale Lockbox shift Supervisor, Phone 412-234-5494

Your assistance is greatly appreciated



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