

Mitsubishi Materials USA Corporation
Request for Special Temporary Authority

EXHIBIT

(1) Name, address, phone number of the applicant.

Mitsubishi Materials U.S.A. Corporation
399 Park Avenue
New York, New York
212-688-9550

(2) Description of why an STA is needed.

The STA is needed to allow field strength surveys in support of a pending application to operate an Experimental Radio Station. That Station will be used to test and demonstrate Mitsubishi Materials' SWIFTcomm system. SWIFTcomm is an economical wireless data communications system operating at common data rates with seamless integration to the Internet. It is designed to enable the practical and economical interconnection of many devices that are today unconnected.

(3) Description of the operation to be conducted and its purpose.

Field strength surveys will be conducted from the two sites below to a distance of approximately 10 kilometers. One of the requested four frequencies will be in use at either site at any one time. Mobile receiving equipment will be used to measure and record signal levels at various receiving locations. These data will be used to verify and correct a propagation model that will be used in planning future experimental operations.

(4) Time and dates of proposed operation.

The proposed operation is expected to start upon grant of the STA, and end within 30 days of grant. It is expected that most of the operation will take place during the hours of 8:00 a.m. to 6:00 p.m. EDT. Operation at other times, however, may take place.

(5) Class of stations and call sign.

The transmitters will be fixed and have no associated call sign.

(6) Description of the location and geographical coordinates of the proposed operation.

Site 1 -- Mitsubishi Materials

399 Park Avenue

New York, New York

Geographic coordinates (NAD 83):

Lat: 40 deg 45 min 32 sec N

Lon: 73 deg 58 min 18 sec W

Site 2 -- Park Lane

118-18 Union Turnpike

Kew Gardens, Queens, NY

Geographic coordinates (NAD 83):

Lat: 40 deg 42 min 44 sec N

Lon: 73 deg 50 min 05 min W

(7) Equipment to be used, including name of manufacturer, model and number of units.

The transmitter will be a Hewlett-Packard Model HP/E4430B signal generator and associated options. The antenna will be a custom version developed by Mitsubishi Materials.

(8) Frequencies desired.

At both Site 1 and Site 2:

462.86250 MHz

462.88750 MHz

464.48750 MHz

464.56250 MHz

(9) Maximum effective radiated power (ERP).

5 watts ERP maximum. Lower power levels may be used.

(10) Description of emissions.

The carriers may be unmodulated, or modulated to contain digital information. The Occupied Bandwidth is not expected to exceed 12.5 kHz.

(11) Overall height of antenna structure above the ground.

Site 1: 555' AGL (169.2 meters) maximum

Site 2: 233' AGL (70.0 meters) maximum

At both sites, the antenna will be situated on top of existing buildings at a height less than six meters above the top of the existing structures.