



MOTOROLA

1501 W. Shure Drive
Arlington Heights, IL 60004

Federal Communications Commission
Experimental Licensing Branch, MS 1300E1
445 12 Street, S.W.
Washington, DC 20554

October 18, 1999

RE: Notification of Experimental Operation
Station WB2XCJ
File No. 0110-EX-PL-1999
Motorola Ref. No. 99-10-01

To Whom It May Concern:

As required by the conditions of experimental license file number 0110-EX-PL-1999, call sign WB2XCJ, this letter serves as notification of Motorola's intent to conduct a test within the boundaries of the granted license (copy attached). Pursuant to special condition number 7 of the license, the pertinent technical information for the proposed test is included.

Area of Test: Arlington Heights / Schaumburg IL
Coordinates for centroid of test area: 42 08 13N -88 00 03W
Radius of test area from centroid (km): 12
Date of test start: 11/1/99
Proposed date of test completion: 12/15/99
Number of base transmitters: 2
Power of base transmitter (ERP): 36 dBm
Frequency band of base operation (MHz): 860.765
Duty cycle: 50%
Number of mobile transmitters: 0
Power of mobile transmitters (ERP): Not Applicable
Frequency band of mobile operation (MHz): Not applicable

The testing will consist of signal strength measurements at various locations within the test area. The transmitters will be stationary. Motorola will also comply with all other relevant FCC and FAA rules and regulations, as well as any other relevant conditions on the station license.

If there are any further questions, please contact me at the address and phone number listed below.

Sincerely,

A handwritten signature in cursive script that reads "Stan Benes". The signature is written in dark ink and is positioned above the typed name and address.

Stan Benes
Experimental License Coordinator
Motorola, Inc.
1501 W. Shure Drive MS-2D5
Arlington Heights, IL 60004
(847) 632-5048

Ron Johnson
Senior Resource Manager
Motorola
5555 N. Beach St.
Ft. Worth, TX 76034

RECEIVED
MAY 23 2000
FCC MAIL ROOM

Federal Communications Commission
Experimental Licensing Branch, MS 1300E1
445 12th Street, S.W.
Washington, DC 20554

**Re: Experimental Radio License WB2XCJ
Notification of Commencement of Experimental Operations**

To Whom It May Concern:

As required by the conditions of experimental license file number 0110-EX-PL-1999, call sign WB2XCJ, this letter serves as notification of Motorola's intent to conduct a test within the boundaries of the granted license. Pursuant to special condition number 7 of the license, the pertinent technical information for the proposed test is as follows:

Motorola Experiment Reference Number:

Purpose of test: Demonstration of LMDS technology

Area of Test: Schaumburg, Illinois

Date of test start: 24 May 2000

Date of test completion: 25 May 2000

Number of base transmitters 2

Power of base transmitter (ERP): Hub : 37 dBm ERP
CPE : 50 dBm ERP max, 36 dBm ERP typ

Frequency band of base operation (MHz): 31.0-31.075 GHz, 31.225-31.3 GHz

Duty cycle: continuous

Number of mobile transmitters: 0

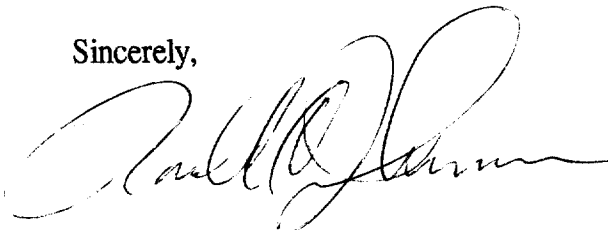
Power of mobile transmitters (ERP): N/A

Frequency band of mobile operation (MHz): N/A

Compliance with other conditions:

Should you have any questions regarding this notification or need further information, please call Ron Johnson at voice: (817) 245-6231; fax: (817) 245-6085; email: QFWA01@email.mot.com) or our FCC counsel, Kurt DeSoto of Wiley Rein & Fielding, at voice: (202) 719-7235; fax: (202) 719-7207; email: kdesoto@wrf.com.

Sincerely,



5/22/00

Ron Johnson
Senior Resource Manager
Motorola
5555 N. Beach St.
Ft. Worth, TX 76034

Federal Communications Commission
Experimental Licensing Branch, MS 1300E1
445 12th Street, S.W.
Washington, DC 20554

Re: Experimental Radio License WB2XCJ
Notification of Commencement of Experimental Operations
Location(s): Atlanta, GA Frequency(ies): 31.0-31.075 GHz, 31.225-31.3 GHz.

To Whom It May Concern:

As required by the conditions of experimental license file number 0110-EX-PL-1999, call sign WB2XCJ, this letter serves as notification of Motorola's intent to conduct a test within the boundaries of the granted license. Pursuant to special condition number 7 of the license, the pertinent technical information for the proposed test is as follows:

Motorola Experiment Reference Number: 060100

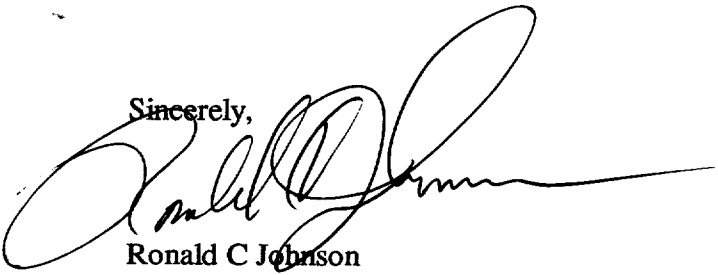
Purpose of test: LMDS Demonstration for Supercomm2000

Area of Test:	Atlanta, GA
Date of test start:	June 6, 2000
Date of test completion:	June 8, 2000
Number of base transmitters	2 (1 Hub, 1 CPE)
Power of base transmitter (ERP):	Hub : 5W ERP CPE : 100W ERP max, 4W ERP typ
Frequency band of base operation (MHz):	31.0-31.075 GHz, 31.225-31.3 GHz
Duty cycle:	continuous
Number of mobile transmitters:	0
Power of mobile transmitters (ERP):	N/A
Frequency band of mobile operation (MHz):	N/A

Compliance with other conditions: Motorola will ensure compliance with all conditions on the license.

Should you have any questions regarding this notification or need further information, please call Ron Johnson at voice: (817) 245-6231; fax: (817) 245-6085; email: QFWA01@email.mot.com) or our FCC counsel, Kurt DeSoto of Wiley Rein & Fielding, at voice: (202) 719-7235; fax: (202) 719-7207; email: kdesoto@wrf.com.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read 'Ronald C Johnson', written over the printed name.

Ronald C Johnson

6/1/00

9 Oct. 2000

Ron Johnson
Senior Resource Manager
Motorola
5555 N. Beach St.
Ft. Worth, TX 76034

Federal Communications Commission
Experimental Licensing Branch, MS 1300E1
445 12th Street, S.W.
Washington, DC 20554

**Re: Experimental Radio License WB2XCJ
Notification of Commencement of Experimental Operations**

To Whom It May Concern:

As required by the conditions of experimental license file number 0110-EX-PL-1999, call sign WB2XCJ, this letter serves as notification of Motorola's intent to conduct a test within the boundaries of the granted license. Pursuant to special condition number 7 of the license, the pertinent technical information for the proposed test is as follows:

Purpose of test: Development of LMDS technology

Area of Test: Scottsdale Arizona
Date of test start: 16 Oct. 2000
Date of test completion: 1 August 2001

Hub Transmitters, Downstream (Quantity 4)

(A) Frequency Range: 28,050 to 28,350 MHz
(B) Maximum RF Power: +17 dBm (50 mW)
(C) Maximum ERP: +31 dBm (2.00 W)
(D) Peak/Mean: All power levels are MEAN
(E) Emission designator: 6M00D7W
(F) Modulating Signal: 30 Mbps digital data using 64 QAM format
(G) Necessary Bandwidth: Each transmit channel will occupy 6 MHz of bandwidth based on the normal channelization of the outbound signal from a cable modem. The total frequency bandwidth requested provides channelization for all of the possible cable modem frequencies so that all possible operating parameters may be investigated.

Hub Transmitters, Pilot (Quantity 4)

(A) Frequency Range: 27,644 MHz
(B) Maximum RF Power: +17 dBm (50 mW)

(C) Maximum ERP: +31 dBm (2.00 W)
(D) Peak/Mean: All power levels are MEAN
(E) Emission designator: 3M00F1N
(F) Modulating Signal: FM, 24.414 kHz at 8 MHz peak deviation

These above hub transmitters are located at N33 deg, 27.62 min, W111 deg, 54.397 min, on the Motorola Scottsdale property.

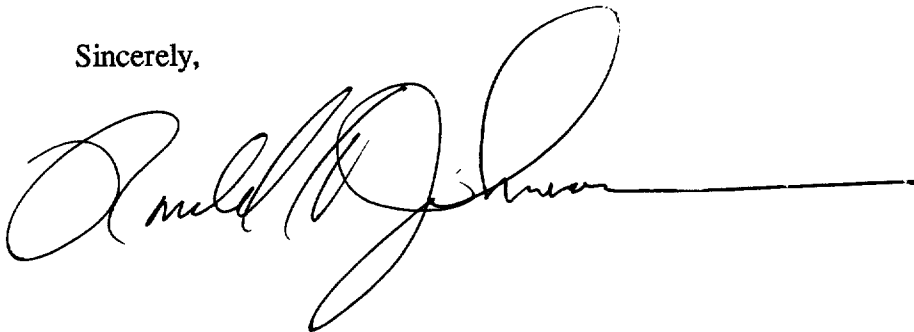
Customer Premises Transmitters (Quantity 8)

(A) Frequency Range: 31,076 to 31,106 MHz
(B) Maximum RF Power: +13 dBm (20 mW)
(C) Maximum ERP: +48 dBm (100 W)
(D) Peak/Mean: All power levels are MEAN
(E) Emission designator: 3M20D7W
(F) Modulating Signal: 1.336 Megabits per second using 16 QAM format
(G) Necessary Bandwidth: Each transmit channel will occupy 3.2 MHz of bandwidth based on the normal channelization of the inbound signal from a cable modem. The total frequency bandwidth requested provides channelization for all of the possible cable modem frequencies so that all possible operating parameters may be investigated.

Six of the above Customer Premise transmitters are located on the Motorola Scottsdale property. Two of them are located at ASU Sun Devil Stadium, N33deg, 25.628 min, W111 deg, 56.007 min.

Should you have any questions regarding this notification or need further information, please call Ron Johnson at voice: (817) 245-6231; fax: (817) 245-6085; email: QFWA01@email.mot.com or our FCC counsel, Kurt DeSoto of Wiley Rein & Fielding, at voice: (202) 719-7235; fax: (202) 719-7207; email: kdesoto@wrf.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Johnson", with a long horizontal line extending to the right.

12 Oct. 2000

Ron Johnson
Senior Resource Manager
Motorola
5555 N. Beach St.
Ft. Worth, TX 76137

Federal Communications Commission
Experimental Licensing Branch, MS 1300E1
445 12th Street, S.W.
Washington, DC 20554

**Re: Experimental Radio License WB2XCJ
Notification of Commencement of Experimental Operations**

To Whom It May Concern:

As required by the conditions of experimental license file number 0110-EX-PL-1999, call sign WB2XCJ, this letter serves as notification of Motorola's intent to conduct a test within the boundaries of the granted license. Pursuant to special condition number 7 of the license, the pertinent technical information for the proposed test is as follows:

Purpose of test: Development of LMDS technology

Area of Test: Tempe, Arizona
Date of test start: 16 Oct. 2000
Date of test completion: 1 August 2001

Hub Transmitters, Downstream (Quantity 4)

(A) Frequency Range: 28,050 to 28,350 MHz
(B) Maximum RF Power: +17 dBm (50 mW)
(C) Maximum ERP: +31 dBm (2.00 W)
(D) Peak/Mean: All power levels are MEAN
(E) Emission designator: 6M00D7W
(F) Modulating Signal: 30 Mbps digital data using 64 QAM format
(G) Necessary Bandwidth: Each transmit channel will occupy 6 MHz of bandwidth based on the normal channelization of the outbound signal from a cable modem. The total frequency bandwidth requested provides channelization for all of the possible cable modem frequencies so that all possible operating parameters may be investigated.

Customer Premises Transmitters (Quantity 8)

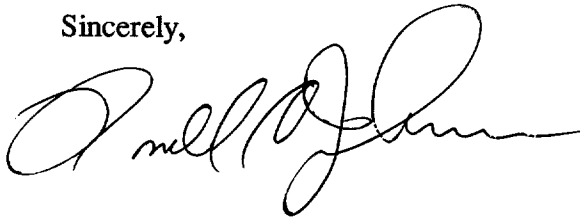
(A) Frequency Range: 31,076 to 31,106 MHz

(B) Maximum RF Power: +13 dBm (20 mW)
(C) Maximum ERP: +48 dBm (100 W)
(D) Peak/Mean: All power levels are MEAN
(E) Emission designator: 3M20D7W
(F) Modulating Signal: 1.336 Megabits per second using 16 QAM format
(G) Necessary Bandwidth: Each transmit channel will occupy 3.2 MHz of bandwidth based on the normal channelization of the inbound signal from a cable modem. The total frequency bandwidth requested provides channelization for all of the possible cable modem frequencies so that all possible operating parameters may be investigated.

Eight of the above Customer Premise transmitters and Four of the Hub transmitters will be used intermittently at a Motorola facility at 8600 S. Science Dr., Tempe, AZ, N33 deg. 20.3 min , W111 deg. 53.8 min.

Should you have any questions regarding this notification or need further information, please call Ron Johnson at voice: (817) 245-6231; fax: (817) 245-6085; email: QFWA01@email.mot.com or our FCC counsel, Kurt DeSoto of Wiley Rein & Fielding, at voice: (202) 719-7235; fax: (202) 719-7207; email: kdesoto@wrf.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Johnson", with a stylized, flowing script.



MOTOROLA

21 Nov. 2000

Ron Johnson
Senior Resource Manager
Motorola
5555 N. Beach St.
Ft. Worth, TX 76137

Federal Communications Commission
Experimental Licensing Branch, MS 1300E1
445 12th Street, S.W.
Washington, DC 20554

**Re: Experimental Radio License WB2XCJ
Notification of Commencement of Experimental Operations**

To Whom It May Concern:

As required by the conditions of experimental license file number 0110-EX-PL-1999, call sign WB2XCJ, this letter serves as notification of Motorola's intent to add the Hub Transmitter, Pilot equipment to the list provided on the Notification memo dated 12 October 2000 and to continue to conduct tests within the boundaries of the granted license. Pursuant to special condition number 7 of the license; the pertinent technical information for the proposed test is as follows:

Purpose of test: Development of LMDS technology

Area of Test: Tempe, Arizona
Date of test start: 16 Oct. 2000
Date of test completion: 1 August 2001

Hub Transmitters, Downstream (Quantity 4)

(A) Frequency Range: 28,050 to 28,350 MHz
(B) Maximum RF Power: +17 dBm (50 mW)
(C) Maximum ERP: +31 dBm (2.00 W)
(D) Peak/Mean: All power levels are MEAN
(E) Emission designator: 6M00D7W
(F) Modulating Signal: 30 Mbps digital data using 64 QAM format
(G) Necessary Bandwidth: Each transmit channel will occupy 6 MHz of bandwidth based on the normal channelization of the outbound signal from a cable modem. The total frequency bandwidth requested provides channelization for all of the possible cable

modem frequencies so that all possible operating parameters may be investigated.

Hub Transmitters, Pilot (Quantity 4)

- (A) Frequency Range: 27,644 MHz
- (B) Maximum RF Power: +17 dBm (50 mW)
- (C) Maximum ERP: +31 dBm (2.00 W)
- (D) Peak/Mean: All power levels are MEAN
- (E) Emission designator: 3M00F1N
- (F) Modulating Signal: FM, 24.414 kHz at 8 MHz peak deviation

Customer Premises Transmitters (Quantity 8)

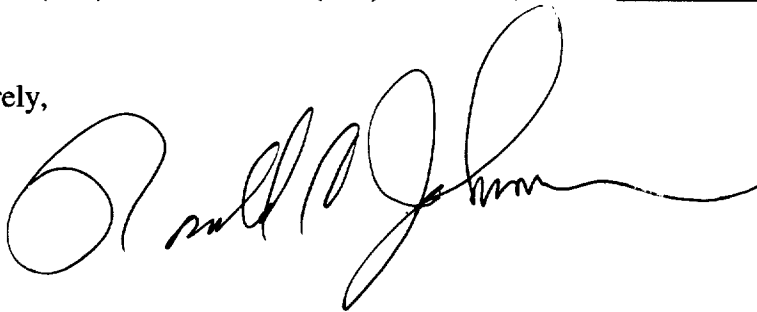
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- (G) Necessary Bandwidth: Each transmit channel will occupy 3.2 MHz of bandwidth based on the normal channelization of the inbound signal from a cable modem. The total frequency bandwidth requested provides channelization for all of the possible cable modem frequencies so that all possible operating parameters may be investigated.

Eight of the above Customer Premise transmitters, Four of the Hub transmitters and Four of the Hub transmitters, Pilot will be used intermittently at a Motorola facility at 8600 S. Science Dr., Tempe, AZ, N33 deg. 20.3 min, W111 deg. 53.8 min.

The copy of the 12 October 2000 Notification of Commencement of Experimental Operations is attached for your reference.

Should you have any questions regarding this notification or need further information, please call Ron Johnson at voice: (817) 245-6231; fax: (817) 245-6085; email: QFWA01@email.mot.com or our FCC counsel, Kurt DeSoto of Wiley Rein & Fielding, at voice: (202) 719-7235; fax: (202) 719-7207; email: kdesoto@wrf.com.

Sincerely,

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