

EXHIBIT ID

HARRIS CANADA, INC.

<u>Exhibit</u>	<u>Description</u>
A	Need for Experimental License
B	STA Request
C	ROLL Specifications
D	Letter from GTE re Telco Facilities for "Wireless '97" (CTIA) Show, San Francisco; Frequencies, ERP, etc.

EXHIBIT A

This Exhibit is an explanation of the necessity
for Harris Canada, Inc. to have an Experimental
License.

EXHIBIT A

EXPERIMENTAL RESEARCH PROGRAM

The Applicant, Harris Canada, Inc. (Harris) is one of the leading manufacturers of cellular base stations. As such, Harris is continuing to find new ways to improve their produce and respond to the public's needs.

The present cellular system under development is the Radio Local Loop ("ROLL"). This system will supply and extend telephone service fast and affordable. The systems have capability of serving 64 channel provider telephone service up to 5,000 persons. The systems will be compatible with two (2) wire systems or radio connections via digital RF links.

The Experimental License is necessary over the next two (2) years to test the product and its development with actual operating systems and demonstrate to the public the various latest features to get input from the public, telephone system operators, and distributors, to make sure the latest and most desirable features are included.

The first use of the Experimental License will occur the first week of March, 1997. Because of the short time period, an STA request is filed simultaneously with this application. See Exhibit B attached.

EXHIBIT B

STA REQUEST

This Exhibit is a copy of the STA simultaneously
filed with the FCC Form 442.



EX B

Consultants:

Norwood J. Patterson, President

1416 Hollister Lane Los Osos, Ca. 93402
Ph. (805) 528-1996 Fax: (805) 528-1982

February 10, 1997

Federal Communications Commission
Attn: Carl Huie, Room 230
2000 M Street N. W.
Washington, DC 20554

Re: STA Request for Radio Show (Wireless '97)
in San Francisco, CA March 1-5, 1997

Applicant: Harris Canada, Inc.
c/o Norwood J. Patterson
1416 Hollister Lane
Los Osos, CA 93402

Fee Attached: \$45.00 Harris Check #1885, and Drug Statement

Dear Mr. Huie:

On or about February 11, 1997 an FCC Form 442 for an experimental license was filed with the FCC including the appropriate fee for Harris Canada, Inc. (Harris). Since time is of the essence, this STA is being filed.

STA Requirements:

Harris is a major manufacturer of cellular base stations. They are continually improving and upgrading their FCC type acceptance approved base stations. During the research and development (R&D) portion of their production, it is essential to get input from the public, telephone systems, and distributors as to features and operating compatibility. There is an industry wide radio show being presented in San Francisco at the Moscone Convention Center. It is very important for Harris to get input from the public, telephone operators, and distributors of the features of their new base station system "Radio Local Loop" (ROLL). It is not expected that the permanent FCC Experimental License can be processed within the time constraints of about two (2) weeks. Therefore, this request.

STA Location, ERP, etc.

Wireless '97 Show (CTIA) location is the Moscone Convention Center, San Francisco, CA.

Co-ordinates (NAD 27):
37° 46' 39" N. Lat.
122° 24' 40' W. Long.

Transmitter Power: 1 mW

Antenna: Vertical 1/4 wave length

Gain: Numerical 1 (0 dB)

Frequencies: As assigned by Cellular Provider GTE (see letter attached)

Antenna Location: Within Booth Area 10-12 ft. above floor level

Emission: 40KOF8W (F1D) for all channels. It is expected to operate one (1) non-standard control channel and three (3) amps voice channels.

Conclusion:

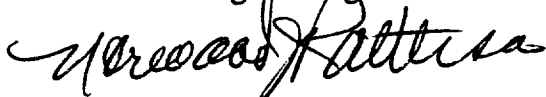
Should you have any further questions I'll be prompt to respond via phone or Fax. Upon issuance of the STA please FAX a copy to me at 805-528-1982.

The original of this FAX and FCC Form 442 are being sent today by UPS Next Day Service (track #N576 240 347 9) to Mellon Bank and a copy to you.

Thanks for your prompt services.

Sincerely yours,

Radio & Tv Engineering Co.



Norwood J. Patterson
President

NJP:gdp
encl.

cc: Harris Canada, Inc.
Mr. John Yam

EX C



WIRELESS ACCESS DIVISION

RoLL Product Line

	Model 832	Model 932	Model 864	Model 964
Maximum subscriber lines per Controller	1024	1024	5000*	5000*
2-Wire interface	✓	✓	optional	optional
Digital trunk interface	optional	optional	✓	✓
Analog trunk interface	optional	optional	optional	optional
EAMPS	✓		✓	
ETACS		✓		✓
Radio channels per Controller	32	32	64	64
Max. RoLL systems per site	4	4	2	2
Erlangs per Controller (2% blocking)	22.8	22.8	52.5	52.5

*Limited by grade of service

System Specifications

Physical

Multiplexer (MuX), Wireless Access Unit (WAU) and RF frames

213.4 x 58.4 x 76.2 cm
84 x 23 x 30 in.

MuX Voltage -42 to -56 Vdc (from Local Exchange)
WAU Voltage +27 ± 10% Vdc

Environmental (Operating)

Temperature 0°C to +55°C
Humidity 5% to 95% (non condensing)
Altitude 3000 meters

Electrical

RF output per channel at antenna port 18 watts (nominal)
Receive sensitivity at antenna port -119 dBm EAMPS (nominal)
-115 dBm ETACS (nominal)

Radio Frequencies

RF frequency range
EAMPS: Rx 824-849 MHz
Tx 869-894 MHz
ETACS: Rx 872-905 MHz
Tx 917-950 MHz

Product descriptions available on request.

Harris has made every effort to ensure the accuracy of this information, but makes no representations or warranty that the material is free from

HEAD OFFICE:

WIRELESS ACCESS DIVISION

HARRIS CANADA, INC.
6732 - 8TH STREET N.E.
CALGARY, ALBERTA
CANADA T2E 8M4

TEL: (403) 295-5000



12677 Alcosta Blvd- Dept #493
P.O.Box 6011
San Ramon, CA 94583-0811

EX D

Mar 1-5

ROLL digital
884
Mury

F A X C O V E R S H E E T

DATE: January 29, 1997 **TIME:** 7:12 PM
TO: Pete Varasse **PHONE:** 817-849-2216
Harris Corp. Wireless Access **FAX:** 817-849-2110
FROM: S. Cathy Chang **PHONE:** 510-904-3541
RF Engineer **FAX:** 510-904-3529
RE: CTIA - Frequency Request
CC:

Number of pages including cover sheet: 3

Message

Pete,

I am sending you the forms that will be sent out to all the CTIA vendors shortly. Could you please fill out the information and send it back to me?

The control channel you requested will have to be a non-standard control channel. Also, you will have to have your power set to about 1 mW or less. Your equipment should ONLY cover YOUR booth area. Any coverage that extends past your booth may cause interference. You should have your phones/handset units to be transmitting at the lowest power possible (i.e. VMAC 7).

To verify again, you are requesting 1 non-standard AMPS control channel and 3 AMPS voice channels. Please state this on your form back to me.

I will probably not be able to give you the exact frequencies until closer to the show since we are having difficulty finding frequencies at this time.

If you have any questions, please just give me a call.

Thanks, Cathy