Exhibit ID
Harris Canada
6/8/00

EXHIBIT IDENTIFICATION

Exhibit No.	Description
A	Need for Experimental License
B	STA Request
C	ROLL Specifications
D	Anti-Drug Statement

EXHIBIT A
HARRIS CANADA, INC.
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 product and respond to the public's needs.

The present cellular system under development is the Radio Local Loop ("ROLL") modification and upgrade. 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 June 10, 2000. Because of the short time period, an STA request is filed simultaneously with this application.

ENGINEERING STATEMENT of NORWOOD J. PATTERSON

Re EXPERIMENTAL LICENSE and STA for

HARRIS CANADA, INC.

Harris Canada, Inc. ("Harris") is, and has been, a leading developer of the cellular radio system. They are continually upgrading and developing unique, user friendly radio base systems, hand held and transportable systems within their research and development (R&D) departments.

It is a known fact that even with the best R&D department, nothing can take the place of actual operation in the real world, at different locations, and under varying set of conditions. The data developed under actual operation in the real world often brings to light modifications, changes, and new techniques, which are then implemented in the final product. It is for these reasons that Harris needs the experimental license herein requested.

The 800 Systems, after final development, will process an application to the FCC for equipment authorization through our firm, Radio & Tv Engineering Company. Tests will be made to demonstrate that the 800 Systems meet all FCC Rules & Regulations for an equipment authorization to operate within the switched telephone system of cellular radio FCC §2 Subpart J and FCC §22 Subpart K.

Operation of this system at Trade Shows and at the Harris CBC building will offer an exceptional opportunity to get hands-on operation feed back from the public and corporate users.

This system is unique, as it is designed to bring cellular systems on a transportable system to remote sites such as resort areas, remote construction sites, rural and temporary areas. It is also unique in that it is expandable as the needs increase, from a small 3-trunk system to a 124-trunk system.

Within their R&D department, Harris has on line at this time the development of a new system known as the 800 base. This will be a large, more sophisticated system, and actual use of the experimental license within the next two years will be very beneficial with field input during the development process.

The systems being transportable lend to use within remote areas prone to natural disasters such as areas of repeated cyclones, tornadoes, floods and earthquakes. Input from users and the general public for these disaster usage is invaluable in the R&D development process.

CONCLUSION:

Harris continues on the cutting edge of new developments, as they were the first to develop the data transmission system of transmitter facilities via the cellular system in their 800 product. The FCC issued an experimental license in the 1990s and it was very helpful during the final R&D in the development of the 800 System. An STA for the CBC demonstration and a permanent experimental license for the next two years will serve the public in the development of their input to Harris during radio shows and demonstrations. This input is invaluable in the development of the final product of the 800 base systems. The operations requested are as outlined in FCC Rules ¶5.152(a) through (k). A waiver of FCC ¶5.152 is hereby requested (station ID). See Exhibit for technical specifications and product description. Also see Exhibit for Harris' Anti-Drug Statement.

I do hereby certify that I have prepared the enclosed data and, under penalty of perjury, that data of my own knowledge is correct. As to other information and belief, I believe that information to be true.

Norwood J. Patterson

Date 6-22-2000

Ex C

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.

HARR

WIRELESS ACCESS DIVI

HEAD OFFICE:

WIRELESS ACCESS DIVIS

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CANADA T2E 8M4

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CERTIFICATION RE ANTI-DRUG ACT OF 1988

By checking Yes, the applicant certifies that, in case of an individual applicant, he or she is not subject to a denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C.862, or in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial or federal benefits, that includes FCC benefits, pursuant to that section. For a definition of a "party" for these purposes, see 47 C.F.R. 1.2002(b).

[X] Yes [ ] No

Harris Canada, Inc.

Norwood J. Patterson, agent

Norwood J. Patterson
Agent

Date 6-8-2000

FCC-Anti-Drug-Certification

* * * * * END OF REPORT * * * * *

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