

June 24, 1996

*software dev for
Japan equipment*

Exhibit No. 1

(For Item No. 10 of FCC Form 422 Application, submitted June 24, 1996)

10. (a) The complete program of research and experimentation proposed including description of equipment and theory of operation

This is a program of research and experimentation for a private business Personal Access Communications system pursuant to proposed standard J-STD-014A "Personal Access Communications System Unlicensed (version A) Air Interface Standard".

This plan of experimentation will utilize base stations and personal handsets for purposes of private business wireless telephony. System performance will be measured in the manner of base station layout, voice channel traffic management methods, and subscriber usability. All equipment (base stations and handsets) is manufactured by Nippondenso Company, Ltd., as indicated in Item No. 13 of FCC Form 422 (dated June 24, 1996).

10. (b) The specific objectives to be accomplished

- (1) Performance of Nippondenso's private business Personal Access Communications system will be studied under realistic field RF propagation and subscriber voice traffic conditions.
- (2) Different methods of base station layouts will be analyzed for optimal performance such as traffic capacity, handover performance, and subscriber coverage.
- (3) Various subscriber services for personal handsets will be evaluated.
- (4) Integration and interoperability with existing communications networks will be evaluated.

10. (c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along lines not already investigated.

The use of "micro-cellular" type private business wireless communications systems is not well established. This program will help determine guidelines for private business wireless communications systems design, configuration, and implementation.



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