

Question 7 response.

As part of a development effort to design and market digital land mobile radio base stations, subscriber and other infrastructure equipment, Motorola has instituted various testing programs. Some of these tests will include actual "on-the-air" testing of systems in various configurations. Among these configurations are single site, voting and wide area simulcast. In order to solve and overcome the numerous problems associated with a new radio technology, experiments will be conducted to check the successful delivery of a message, be it voice, or high speed digital data, individually or in combination. Specifically, new hardware and software will be verified. Design decisions for error coding will be verified under actual field conditions. Data will be taken to compare performance of existing FDMA digital radios to new TDMA digital radios under field conditions.

Supplementary Statement to Experimental Radio Station License Applications

1. As a supplementary statement concerning applicants qualifications for carrying out a general development program and furthering the art of communications in the applicable categories the general following information is indicated.
2. The applicant, Motorola, Inc., seeks operating authority for radio transmitting equipment to conduct propagation tests and develop communications equipment with a view to improving communications and safety services in the frequency bands specified.
3. The Land Mobile Products Sector of Motorola, Inc. is adequately staffed with engineers and technicians who are familiar with regulations and restrictions governing the use of communication equipment operating on the experimental frequencies specified. All equipment will be controlled and operated by qualified personnel.
4. Motorola engineering and operating personnel are familiar with the Commission's rules and regulations governing the applicable services, and understand and agree to the applicable requirements.
6. Motorola, Inc. is in the business of designing, developing, and manufacturing communications and electronics equipment and maintains manufacturing, research, and development establishments in Schaumburg, Illinois and environs. Motorola also maintains research and development organizations in Florida, Arizona and Texas.
7. Motorola research facilities investigate such areas as microwave, telemetering, selective calling, personal telepoint, FM communications, radar, automatic control, mobile data, paging, video, trunking, cellular telephone, and bandwidth efficient digital voice communications.
8. Constant improvements and new developments require an organized plan of experimental laboratory work and field testing, followed by field testing and verification of the general objectives dictating these activities. Field tests are made only in those cases where the practical application seems justified by research, development, and laboratory investigations. Practical field test applications will be under the exclusive control of the applicant, and transmitting

stations involved will be operated in accordance with the rules and regulations issued by the FCC.

9. The applicant understands that the frequencies for field test operations will be on an experimental basis as provided by the rules. It is understood that the grant of authority shall not be construed as a finding by the Commission that the frequencies authorized for the field tests are the best for the services considered, that the applicants are qualified to operate other than an experimental license, or that any future authorization to operate other than experimentally will be considered that there is an obligation to permit other than an experimental program of operation on the frequencies specified.

10. The applicant desires and is willing to conduct experimental programs under the rules and regulations and understands that the authority that may be granted is subject to cancellation at any time without hearing. It is further understood that such experimental operation is subject to non-interference to existing services.

11. The research and development facilities and personnel of Motorola, Inc., in addition to development, are available for supervision and control of the practical field tests that may result from authority to operate subject communications and electronic equipment. Such field surveys are indicated because of the possible existence of probably unknown radio systems use factors, geographical factors, effects of meteorological conditions, etc.

12. It is understood that authority to operate under experimental classifications require an independent application for authorization for different equipment and applications.

13. In addition to holding a number of experimental licenses, Motorola, Inc. also holds numerous licenses in other services.

14. Motorola, Inc. recognizes that the rules, regulations, authorizations, and operations of the Federal Communications Commission dominating this applicant's field testing are in the best interests of the continued improvements in the art.