

OP Corporation
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Form 442, Question 7:

A. The complete program of research and experimentation proposed including description of equipment and theory of operation.

The program is a demonstration project of existing technology solutions, demonstrating standards currently in production or in pre-production in various parts of the world. Our work will be to briefly demonstrate some or all of the following technologies:

- DVB & DVB-H Digital Video Broadcast – Terrestrial and Handheld and suitable for handset use
- ISDB-T Integrated Services Digital Broadcasting – Terrestrial
- DAB/DMB (Digital Multimedia Broadcast) Eureka 147

The work will not be to develop or implement radios, systems or technologies, rather to briefly demonstrate some of the existing and possible capabilities.

B. The specific objectives sought to be accomplished.

A demonstration of digital transmission technologies referenced above. This license request is being made to operate on frequencies assigned to UHF Television. The technologies we will be demonstrating operate indoors only, at extremely low radiated power on a single UHF channel at a time. We will choose a locally unused UHF channel at the time we conduct our demonstrations, and thus not cause any interference. We proposed to use UHF channels for this demonstration as equipment is currently commercially available internationally. Rebanding will be necessary should any of these technologies be commercially deployed in the future.

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 line not already investigated.

As OP Corporation is the current licensee of 5 MHz of nationwide spectrum, we are investigating technologies which may be suitable for deployment. We intend to demonstrate these technologies at our corporation offices. Demonstrations will be relatively short in duration, lasting from a few minutes to an hour, and will occur a limited number of times during 2004, starting in March.

We are not aware of any of these technologies being used in the US at this time. Our investigation will help us determine the suitability, viability and applicability of these technologies to the US market, and ultimately help the commercial success of licensed spectrum.