



AT&T Bell Laboratories

EXHIBIT No. 1

American Telephone and Telegraph Co. has been in the forefront of cellular telephone development from its earliest days. The attached experimental license (KB2XTH) has been used over the years to do the required developmental work in this field. In order to use the cellular spectrum more efficiently, CDMA is being proposed for future cellular service.

Due to CDMA technology, the addition of a bandwidth of 1.25 MHz per channel will be required. In order to perform developmental testing of Cellular Systems using CDMA technology, a bandwidth of 1.25 MHz per channel needs to be added to this license.



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EXHIBIT No. 2

- a) The program of research to be performed under this license will be to test new and modified AT&T Cellular base station and mobile equipment using CDMA technology to increase the number of cellular telephone subscribers per channel from 1 to as many as 12.
- b) The objective of these tests is to enable as many calls as possible to be carried on one cellular channel.
- c) The theoretical studies have shown that at least ten calls and possibly as many as twelve calls can be put on one channel, using the proposed modulation method. With the overwhelming response of the public to cellular telephone service, the existing channels are becoming overloaded, especially in large metropolitan areas. By sharing channels in the manner proposed more of the public will be able to use this service without using any more of the radio spectrum.