

EXHIBIT A: Particulars Of Operation

Part 4 Of Form 442

TRANSMIT FREQUENCIES	POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH
(A)	(B)	(C)	(D)	(E)	(F)	(G)
Subscriber Unit: 891 MHz, 892 MHz; 902 MHz, 903 MHz; 913 MHz, 914 MHz;	33 dBm	45 dBm <i>32W</i>	Peak	306KG1D	270.833 kbps digital signal, 577 us pulse duration, 4.615 ms repetition rate	306K
Basestation: 936 MHz, 937 MHz; 947 MHz, 948 MHz; 958 MHz, 959 MHz;	46 dBm	51 dBm <i>126W</i>	Peak	306KG1D	270.833 kbps digital signal, 577 us pulse duration, 4.615 ms repetition rate	306K

cell-base
over

890
942, 943
944, 945

EXHIBIT A

UPLINK (Mobile To Base Station)

CHANNEL NUMBERS	UPLINK FREQUENCIES (MHz)				
1 - 5	890.200	890.400	890.600	890.800	891.000
6 - 10	891.200	891.400	891.600	891.800	892.000
11 - 15	892.200	892.400	892.600	892.800	893.000
16 - 20	893.200	893.400	893.600	893.800	894.000
21 - 25	894.200	894.400	894.600	894.800	895.000
26 - 30	895.200	895.400	895.600	895.800	896.000
31 - 35	896.200	896.400	896.600	896.800	897.000
36 - 40	897.200	897.400	897.600	897.800	898.000
41 - 45	898.200	898.400	898.600	898.800	899.000
46 - 50	899.200	899.400	899.600	899.800	900.000
51 - 55	900.200	900.400	900.600	900.800	901.000
56 - 60	901.200	901.400	901.600	901.800	902.000
61 - 65	902.200	902.400	902.600	902.800	903.000
66 - 70	903.200	903.400	903.600	903.800	904.000
71 - 75	904.200	904.400	904.600	904.800	905.000
76 - 80	905.200	905.400	905.600	905.800	906.000
81 - 85	906.200	906.400	906.600	906.800	907.000
86 - 90	907.200	907.400	907.600	907.800	908.000
91 - 95	908.200	908.400	908.600	908.800	909.000
96 - 100	909.200	909.400	909.600	909.800	910.000
101 - 105	910.200	910.400	910.600	910.800	911.000
106 - 110	911.200	911.400	911.600	911.800	912.000
111 - 115	912.200	912.400	912.600	912.800	913.000
116 - 120	913.200	913.400	913.600	913.800	914.000
121 - 124	914.200	914.400	914.600	914.800	

NOTE: There are 124 Rf channels in the Uplink band, spaced 200 kHz apart. For experimental operation, two Rf channels are required, spaced at least 1 MHz apart. Required frequencies are shown in Item 4 of Form 442. (*Particulars of Operation*)

EXHIBIT A (Continued)

CHANNEL NUMBER/FREQUENCY CHARTS

DOWNLINK (Base Station To Mobile)

CHANNEL NUMBERS	DOWNLINK FREQUENCIES (MHz)				
1 - 5	935.200	935.400	935.600	935.800	936.000
6 - 10	936.200	936.400	936.600	936.800	937.000
11 - 15	937.200	937.400	937.600	937.800	938.000
16 - 20	938.200	938.400	938.600	938.800	939.000
21 - 25	939.200	939.400	939.600	939.800	940.000
26 - 30	940.200	940.400	940.600	940.800	941.000
31 - 35	941.200	941.400	941.600	941.800	942.000
36 - 40	942.200	942.400	942.600	942.800	943.000
41 - 45	943.200	943.400	943.600	943.800	944.000
46 - 50	944.200	944.400	944.600	944.800	945.000
51 - 55	945.200	945.400	945.600	945.800	946.000
56 - 60	946.200	946.400	946.600	946.800	947.000
61 - 65	947.200	947.400	947.600	947.800	948.000
66 - 70	948.200	948.400	948.600	948.800	949.000
71 - 75	949.200	949.400	949.600	949.800	950.000
76 - 80	950.200	950.400	950.600	950.800	951.000
81 - 85	951.200	951.400	951.600	951.800	952.000
86 - 90	952.200	952.400	952.600	952.800	953.000
91 - 95	953.200	953.400	953.600	953.800	954.000
96 - 100	954.200	954.400	954.600	954.800	955.000
101 - 105	955.200	955.400	955.600	955.800	956.000
106 - 110	956.200	956.400	956.600	956.800	957.000
111 - 115	957.200	957.400	957.600	957.800	958.000
116 - 120	958.200	958.400	958.600	958.800	959.000
121 - 124	959.200	959.400	959.600	959.800	

NOTE: There are 124 Rf channels in the Downlink band, spaced 200 kHz apart.
For experimental operation, two RF channels are required, spaced at least 1
MHz apart. Required frequencies are shown in Item 4 of Form 442. (Particulars
of Operation)

EXHIBIT B: Narrative Statement on Aydin's Wireless Local Loop Project

Wireless Local Loop Project Summary

Aydin Corporation is developing products for Wireless Local Loop(WLL). The WLL products are a low-cost alternative to expensive wired local loops. WLL products will allow first-time basic telephone service for much of the world's population. With the experimental license, over-the-air BER experiments help validate the performance of WLL digital voice, data, and fax transmission. Wireless products include a GSM heritage basestation and a large number of Subscriber Units(SU). Experimental radio testing will include one basestation and up to 4 SUs.

Objectives To Be Accomplished

Over a two year period, the RF experiments will verify proper link operation for a variety of different link configurations and services. All links will be unencrypted and operate between one basestation(BTS) and a number of Subscriber Units. Link testing over time will include these six items:

- initial RF line-of-sight operation verifying adequate received signal strength by BTS & Subscriber Unit
- SU decoding of BTS messages
- proper synchronization of TDMA frames
- point-to-point links between BTS and fixed SUs
- links between BTS and transportable SUs
- link operation and BER measurements for BTS-SU links up to 20 miles from basestation
 - for digital compressed voice service
 - for data and fax service
 - at selected frequencies across the basestation and SU transmit bands

Equipment And It's Operation

BASESTATION

The BTS can transmit on one or more channels in the band from 935 to 960 MHz (see Exhibit A for listing of frequencies). A total of 124 RF channels exist in this band, spaced 200 kHz apart. Link operation is duplex, with the SU transmit frequency operating 45 MHz lower than the corresponding BTS transmit frequency. Links in both directions use time-division multiplexing, with each RF channel having 8 timeslots of duration 577 us. The 8-slot frame has a 4.615ms repetition rate. The BTS antenna will be omnidirectional for links using a transportable SU and directional for links to fixed SUs. See attached link configuration diagrams. Maximum antenna gain is 15 dBi. Vertical polarization is used for all links.

SUBSCRIBER UNIT

The SU can transmit on one or more channels (selectively, not simultaneously) in the band from 890 to 915 MHz(see Exhibit A for listing of frequencies). It operates with the same TDM scheme as the BTS and uses a directional antenna with 15 dBi maximum gain. Up to four SUs will be tested with the BTS. See attached link configuration diagrams.

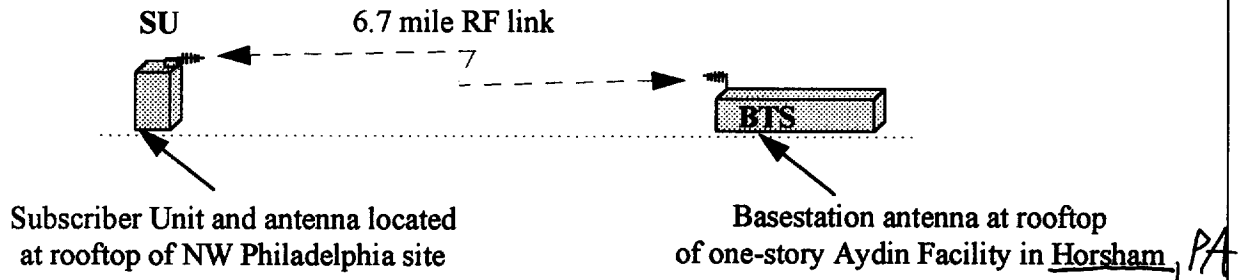
Experimentation Contributes To WLL Promise For Quality And Implementation Without Delays

WLL promises higher quality voice services than other digital compressed voice services provided by cellular and land mobile systems. Ideally, it should be near toll-quality as provided by wired local loops. The planned experiments will verify the delivery of near toll quality voice and acceptable data and fax services using BER measurements. Existing WLL systems have been cellular-based with lower service quality. Also, WLL promises fast deployment into both urban and less populated areas. The experiments will debug link-related problems encountered in these environments and help us to deploy the systems without delays.

EXHIBIT B: Narrative Statement (Continued)

Experimental Link Configurations

Configuration For Fixed Link



Configuration For Links To Transportable SUs

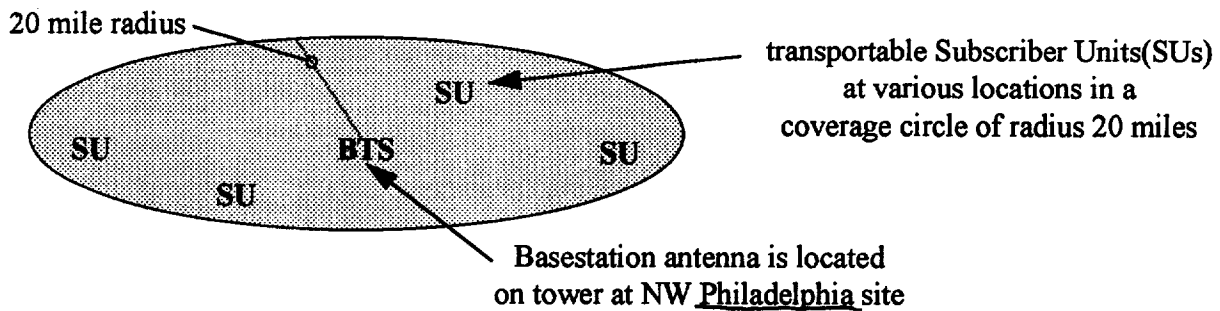


EXHIBIT C: Vertical Profile Sketch Of Existing NW Philadelphia Site

NW Philadelphia Site Details

The site described sketched below is an existing site with the following details:

1. The site has FAA clearance. See FAA aeronautical study number 85-8EA-0329-0E.
2. The rooftop location at this site will be used for Subscriber unit install, with a link back to basestation at Horsham factory.
3. The antenna tower will be used for BTS operation with link to transportable SUs at various remote locations.
4. The BTS and Subscriber unit will not simultaneously operate from this site.

Vertical Profile Sketch Of NW Philadelphia Site

