

July 12, 1968

TO: Wm. N. Morris, Jr., Sheriff
FROM: Henry S. Lesh, Sr.
SUBJECT: SPECIAL INTELLIGENCE GROUP COMMUNICATIONS

The recommendation for the intelligence group communications requirement is as follows:

- A. Basic unit is a two frequency transmit, two frequency receive, hand held portable. Transmit on the 159+ MC riot control frequency, Receive on the 154+ riot control frequency.
- B. A portable repeater, in a housing, with self-contained emergency battery power with recharging capability; a specially adapted antenna designed to attach to common roof-top projections.
- C. A monitor receiver on the 2nd transmit frequency of the portables at the central dispatch point. This frequency chosen simply for compatible proximity to the frequency 1 transmit frequency.
- D. The 2nd receive frequency of the portables to be 155.25, the frequency 1 of the Central Dispatch at present.

The above system would give all intelligence portables virtually city-wide portable to portable operation on a confidential frequency and maintain the ability to communicate with the dispatcher at the option of the portable user, in a crash situation.

The projected cost of the above for the Shelby County intelligence group would be \$23,000.00 and include the following:

25 portables with cases, straps, and 2 rechargeable batteries each, 2 each
12 unit chargers, 26 pairs of extra crystals for alternate confidential
frequency for Portables and Repeater, if compromised, Repeater, Antenna
duplexer, antenna and housing.

The above projections are for 150 MC equipment that is compatible with the present radio system. The single occasion, special purpose, for which this group of units is proposed to facilitate would enjoy much greater security operating in the U.H.F. range rather than the V.H.F. range as proposed. The range, using the repeater, would be virtually identical. The cost would be approximately 20% additional. The increase in security arises from the fact that the news media has, and habitually uses, 150 MC equipment to eavesdrop; the various interested groups possess and utilize the cheap, short range tunable pocket receivers so readily available now. The U.H.F. route could still provide two-frequency safety availability to the main radio dispatcher thru an auxilliary transmitter and receiver provided for the purpose at Central Dispatch. The only disadvantage would be the lack of compatibility with the general system for later use.