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Michael Gbadebo
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Mr. Gbadebo,

In response to the FCC examiner's inquiry whether or not the two transmitters could transmit simultaneously, the pager and the LAN (Local Area Network) radio will not transmit at the same time. The following information supports this conclusion:

Two sequences are possible; the LAN radio transmits and then the pager transmits or vice versa. The product's software processes each action sequentially. During the first sequence, the controller must transfer the transmitted data to the LAN radio *as the data goes over the air* since the radio does not have a data buffer. Consequently, the controller can not command the pager to transmit until the LAN radio has finished transmitting. During the second sequence, the controller commands the pager to transmit and then *waits for the pager to receive an acknowledgement* from the paging network. Again, the controller can not command the radio to transmit while waiting for the paging network acknowledgement.

Additionally, in order to minimize current drawn from the C & I's power supply and thereby make the power supply as inexpensive as possible, the controlling software will be designed to preclude simultaneous transmissions. As you may know, the size and cost of capacitors in a power supply increases as the load current increases. Precluding simultaneous transmissions effectively cuts the total capacitance in half.

I believe this answers the examiner's question.

Sincerely,

Paul Finkel, Sr. Design Engineer
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