

There will be a **Model # LS 7000/7300** with redundancy per UL 864 9th edition Keltron Central Fire Proprietary Alarm receiver. Remote interactive workstations at the gate house in building 16, **Domino Building 2nd Floor FA 121** Fire Control room and **Security** offices over the company Ethernet shall display Alarm, Trouble and Supervisory events as programmed by point number and required for each area. The remote fire alarm panels will be addressable type with the Keltron transmitters and addressable serial interfaces as required. The transmitters will transmit the serial port data to the central receiver which will provide point identification to the central operator. Graphical display maps will indicate the area and point in alarm as required. System shall be capable of receiving data from new Addressable and hard wired inputs from existing non-addressable Fire alarm via the Keltron transmitters or direct connect of existing Coded signals.

The Keltron central receiver shall be capable of, and listed for, receipt of remote serial and zoned alarms from

1. UL listed Radio transmitters Rf750
2. Ethernet IP transmitters 922, 924, 928
3. Existing coded building signals. 703 receiver.
 - a. Capability of the Receipt of the existing Plant Coded signals will allow for the orderly transfer of alarm reporting from the existing plant coded system to newer Radio and Ethernet protocols if required during transfer.

Under Phase 1, this phase, the Silent Knight 5820XL head end networked panel will provide a serial output to the Keltron Serial interface transmitter which will transmit all point identifiers to the central Keltron UL 864 9th edition receiver for redistribution of addressable alarm reporting throughout the plant LAN as a virtual private network. The SK 5820 XL will also report full alarm signal data via Verizon PSTN land lines in accordance with Central Station requirements.

Sequence of operation:

The initiation of any fire alarm, trouble and supervisory signal will report to the central Keltron UL 864 9th edition Radio / IP / Coded Receiver and Computerized display. Report of Fire or Life safety alarms will initiate the plant wide alarm Computerized Displays as designated by the Safety compliance officer and the authorities having jurisdiction for municipal Fire and Life safety response. The remote designated operator dispatch workstations shall receive and display programmed messages and alarms. All points of Life safety alarm, trouble and supervisory events shall be logged into the central data base and print out as programmed for future recall as required.

The Keltron Fire Alarm dispatch Software will provide a Dispatch operators screen that will be fully compliant for Proprietary, Municipal and Central Station dispatch operation. Alarm events shall display via CRT Screen and audibly alert which shall include but not be limited to individual displays by Point on the Graphical display, wave file verbal instruction or alarm tones by event for audible alert in addition to the dispatch screen with preprogrammed instructions. The Dispatch Life Safety computers shall be UL listed for Fire Alarm monitoring, be redundant with an automatic switch over upon failure of a single CPU or server and operate on 24 VDC with 24 hours of backup battery power.