**NCD**

**Network Control Display**

1. A Network Control Display (NCD) shall be provided to display all intelligent system points. The NCD shall be capable of displaying information for all events on a fully utilized network of at least 300,000 points. Network display devices that are capable of displaying only a subset of network points shall not be suitable substitutes.

2. The NCD screen shall have a resolution of 1024x600 with touch capability, including audible and visible feedback, backlit by a long life, solid-state LCD. It shall also include a full QWERTY-style keypad on the color, touchscreen display. Additionally, the network display shall have the ability to scroll events by type (i.e. Fire Alarm, Supervisory Alarm, Trouble, etc) using the touchscreen.

3. The NCD shall have the ability to display up to 3,000 events in order of priority and time of occurrence. Counters shall be provided to indicate the total number of events by type.

4. The NCD shall mount in any of the network node fire alarm control panels. Optionally, the network display may mount in a backbox designed for this use. The NCD shall connect to the network over either a wire or fiber interface.

5. The NCD shall have an event history buffer capable of storing 10,000 events in non-volatile memory.

6. The NCD shall include touchscreen buttons for system-wide control of Acknowledge, Signal Silence, System Reset, Drill, and local Lamp Test.

7. The NCD shall include indication on the touchscreen of Fire Alarm, Trouble, Supervisory, Signals Silenced, Disabled Points, and other (non-fire) events. The NCD will also include LEDs to indicate primary power status and any off-normal event.

8. The NCD shall include a Master username and password and up to 49 additional usernames and passwords. Each password shall be up to 16 alpha-numeric characters in length. The Master password shall be authorized to access the programming and alter status menus. Each User password may have different levels of authorization. Each user access shall be saved in history.

9. The NCD shall allow control (on/off) of outputs and enable/disable of network points.

10. The NCD shall support a Windows® based programming utility. This utility shall allow the user to create an NCD database, upload/download an NCD database, and download an upgrade to the NCD executive. To ensure program validity, this utility shall check stored databases for errors. A compare function shall be included to identify differences between databases. The program utility shall have a secure connection to the NCD.

11. For time keeping purposes the NCD shall include a time of day clock.

12. The NCD shall incorporate display conditioning to prevent image persistence and screen distortion.

13. The NCD shall provide the ability to disable the touchscreen for a predetermined period to allow for cleaning. The time period for this mode shall be programable.

14. The NCD shall be capable of event based filtering, allowing all active events to be filtered by type for easier viewing.

15. The NCD shall utilize color coded user guidance to indicate the order of operation during an event