



Fire Protection Training

Procedures Handbook 4300

FIRE PROTECTION SYSTEMS

TOPIC: Features Of Annunciator Panels

LEVEL OF INSTRUCTION: II

TIME FRAME: 30 Minutes

BEHAVIORAL OBJECTIVE:

Condition: A written examination

Behavior: The student will identify the features of annunciator panels.

Standard: With a minimum of 70% accuracy, according to the information contained in this lesson plan

MATERIALS NEEDED:

- Appropriate visual aids and supplies

REFERENCES:

- Fire Suppression And Detection Systems, John L. Bryan, Chapter 10, 1982

PREPARATION: The ability to respond quickly and efficiently to a fire alarm signal is vital to the successful operation of any alarm system. In simple applications, this can be performed by use of a single bell or light.

In complex settings however, a fire alarm system component known as an annunciator is used to pinpoint the physical location of alarm signals.



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FEATURES OF ANNUNCIATOR PANELS

PRESENTATION	APPLICATION
<p>I. FIRE ALARM SYSTEM DESIGN</p> <p>A. An Alarm System Consists Of Initiating Devices And Indicating Devices Connected By A Control Unit And Necessary Wiring</p> <p>B. In Complex Systems, Initiating Devices Are Wired Into Zones</p> <ol style="list-style-type: none">1. For ease of installation2. For clarity of identifying alarm signals3. For clarity of identifying trouble signals <p>C. Locations Of Initiating Zones May Be Displayed On One Or More Annunciator Panels</p> <p>II. ANNUNCIATOR PANELS</p> <p>A. Definition</p> <ol style="list-style-type: none">1. An electrical device used to indicate the source or location of a fire alarm initiating device <p>B. Styles</p> <ol style="list-style-type: none">1. Lamp display2. Target display<ol style="list-style-type: none">a. Flag drops into a window indicating an activated zone	<p>In complex systems, how are initiating devices wired?</p> <p>What is an annunciator panel?</p> <p>What are the styles of annunciator panels?</p>



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<ul style="list-style-type: none">3. Graphic<ul style="list-style-type: none">a. Scale map showing location of activated alarm zone C. Panel location and design is vital<ul style="list-style-type: none">1. Must be easily seen by responding fire units2. May be located in a place of authority or security<ul style="list-style-type: none">a. School officeb. Office building command center3. If numbers are used on a panel, an explanatory directory must be displayed4. Panel may be equipped with an audible "call back" device5. A call back switch may be provided<ul style="list-style-type: none">a. When panel is in the "ready" mode, operation of switch rings the bell (for testing)b. When panel is in the "fire" (annunciated) mode, switch silences the bell6. Zones should cover an appropriate area<ul style="list-style-type: none">a. One zone per floor, orb. One zone per 10,000 - 20,000 square feet, or	<p>What are some factors that influence location and design of panels?</p>



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<ul style="list-style-type: none">c. One zone per small building within a complex7. Annunciation that is too extensive wastes money8. Annunciation that covers too large an area does not locate the problem quickly enough9. Panel must indicate the nature of the indicating device<ul style="list-style-type: none">a. Manual pull stationb. Detectorc. Waterflow switchD. Access to annunciator panel face<ul style="list-style-type: none">1. If panel can be opened, fire department must have a key or other access means2. Panel must be safeguarded from vandalism by intruders	<p>What types of indicating devices are indicated on the panel?</p>



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APPLICATION:

In order to quickly locate the source of an alarm signal, firefighters should become familiar with the basic concepts of fire alarm annunciator panels. Since many different configurations of annunciator panels are available, it is advisable to become familiar with the specific types of panels in your area.

EVALUATION:

A written examination.

ASSIGNMENT:

To be determined by the Instructor(s).