FPST 1373 Emergency Communication Systems Outline

I. Features of Emergency Communication Systems
   a. Not everything fire hardened
   b. Security overrides
   c. Typically one-way communication
      i. Attempts to get more two-way options
   d. Voice systems
      i. Must have message templates for all emergencies
   e. Alert tone to attract attention
   f. Must use things different than fire
      i. Amber strobe
      ii. White cases
   g. Strobes can be in stairs
   h. Combine video and audio
   i. NFPA72 Annex G contains more guidance
II. Reasons for using mass notification systems
   a. Emergencies other than fire
   b. Notification to more than just building occupants
III. Application of mass notification systems
   a. Risk analysis to determine threats and solutions
      i. Consider all potential scenarios
      ii. Will use multiple
   b. Layers
      i. Layer 1: Building occupants
      ii. Layer 2: People around building
      iii. Layer 3: People with a connection to the building/campus
      iv. Layer 4: General public
   c. Systems
      i. EVACS
         1. Similar to traditional fire alarm
      ii. In-Building MNS
         1. Used for a wide variety of hazards and responses
      iii. Wide-Area MNS
         1. Outdoor warnings
         2. Stricter safeguards because of potential impact
      iv. DRMNS
         1. Sends messages to individual recipients
      v. Two-Way ECS
         1. In building systems to allow people to contact Firefighter Command Center
         2. Used for first responder communication