

# FPST 1373 Voice Message Systems Outline

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- I. Audibility and intelligibility
  - a. Acoustically Distinguishable Space (ADS)
    - i. Location with consistent audible characteristics
  - b. Improved intelligibility
    - i. Smaller speakers
  - c. Intelligibility testing
    - i. Must be audible
      - 1. No minimum dB levels
    - ii. Options
      - 1. Stipa signal
      - 2. Trained listeners
      - 3. AHJ can understand
    - iii. Preferred to test when fully occupied
      - 1. Can lead to improved performance if furniture is installed
    - iv. Not required in areas where it may not be able to be met
- II. Appropriateness of voice messages
  - a. Provides more detail
  - b. Required in large occupancies
  - c. Live compared to pre-recorded
    - i. Delay in getting initial message delivered
    - ii. Need quality speaker
    - iii. Accuracy in reading script
  - d. Give information audibly and visually
  - e. Use standard alerts
  - f. Independent of people present
  - g. No conflicts between means of delivery
  - h. Distinct for all emergencies
  - i. Displayed long enough to comprehend
  - j. Eliminate background noise
- III. Content of emergency messages
  - a. Live messages override pre-recorded
  - b. Order of content depends upon length of message
    - i. Attention
    - ii. Source
    - iii. Event
    - iv. Location
    - v. Actions
    - vi. Time
  - c. Actions
    - i. Evacuate
    - ii. Relocate
    - iii. Defend-in-place
  - d. Simple messages
  - e. Most important information at beginning or end
  - f. Repeat frequently at pace that is urgent, but understandable
  - g. Instructions for all populations

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- h. Provide details
- i. Needs of vulnerable populations
  - i. Audible
  - ii. Visual
  - iii. 5<sup>th</sup> grade vocabulary
  - iv. Repeated
  - v. Two instructions or less
  - vi. Personify the risk