

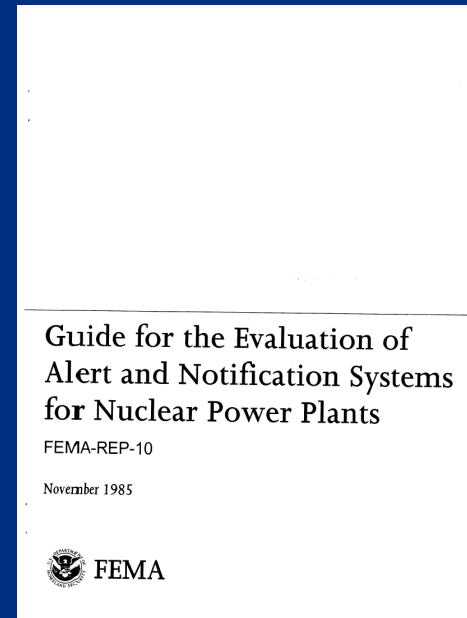
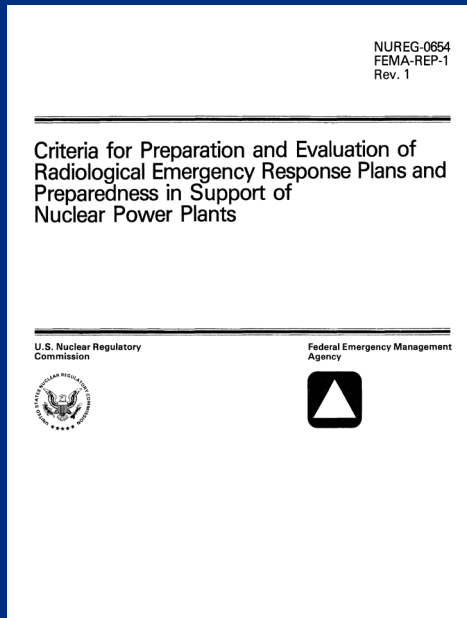
# The Future of Alert and Notification Systems

*2019 Southeast REP Workshop*

J.T. Ackermann, FEMA

# Previous FEMA/NRC Guidance

- NUREG-0654/FEMA-REP-1, Rev. 1 App. 3 (1980)
- FEMA-REP-10 (“Guidance for the Evaluation of Alert and Notification Systems for Nuclear Power Plants”) (1985)



FEMA

# Current Guidance for Evaluating ANS

- FEMA does not require a specific ANS system, nor will it endorse any system(s).
- OROs may submit alternative systems and other newer technologies for approval if they can document that the system meets the minimum acceptable design objectives.
- OROs may use alternative systems not yet approved by FEMA concurrently with approved systems to augment the alert and notification process.



FEMA

# Minimum Acceptable Design Objectives

Capability to provide an alert signal and an informational/instructional message to the population on an area-wide basis throughout the 10 mile emergency planning zone (EPZ) within 15 minutes

Initial notification system will assure direct coverage of essentially 100% of the population within 5 miles of the site

Notification methods will be established to assure coverage within 45 minutes of essentially 100% of the population within the entire plume exposure EPZ who may not have received the initial notification.

Utility operators identify and develop, in conjunction with state, local, and tribal governmental officials, the administrative and physical means for a backup public alert and notification system capable of covering essentially 100% of the population within the entire plume exposure EPZ in the event that the primary method is unavailable.



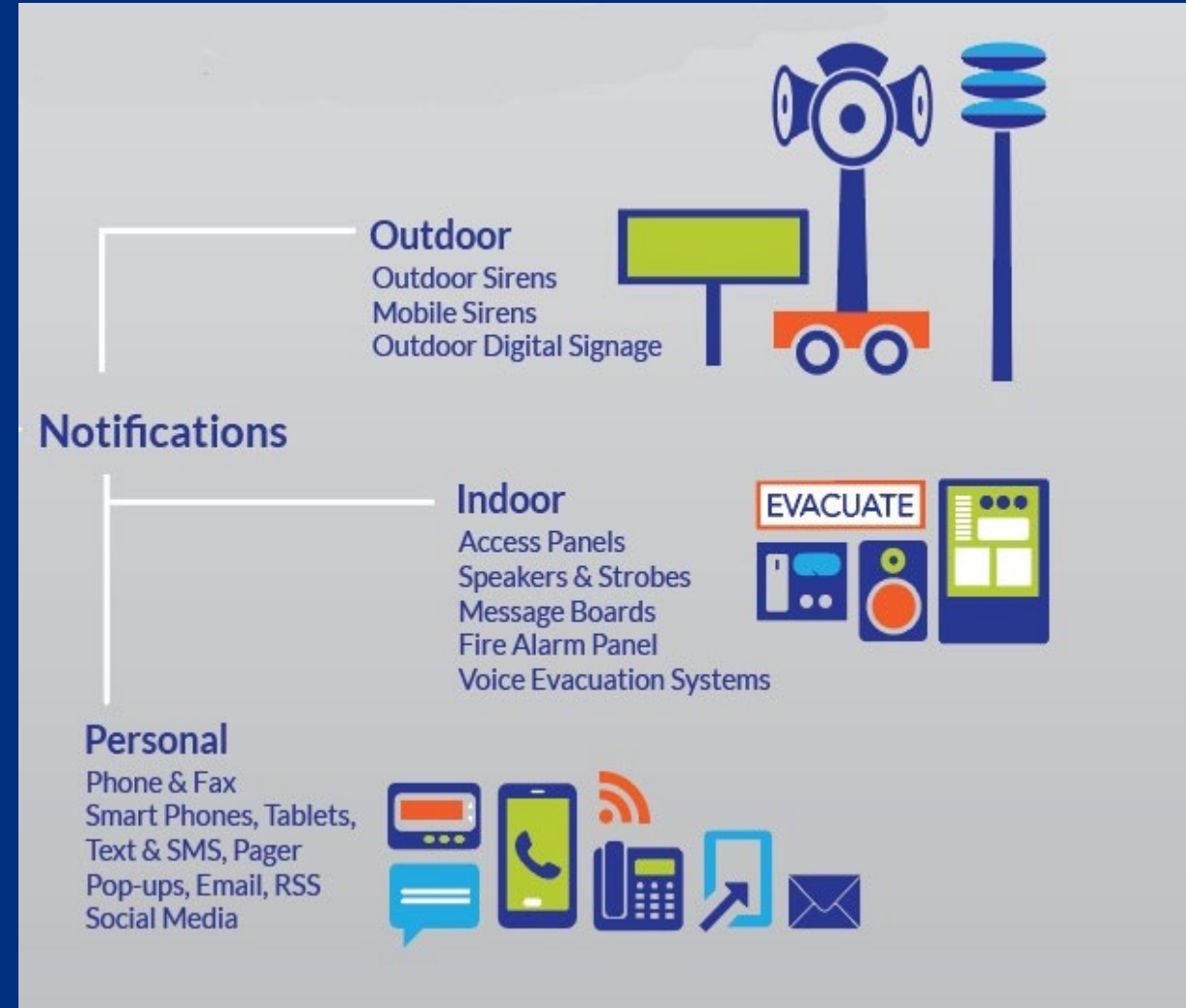
FEMA

# Looking Forward

- Replacement of “Primary” and “Backup” Systems with Redundant Communications
- Larger Communication and Technological Ecosystem
- Continuously Evolving Technology



FEMA



# What's Next?

- FEMA RIV is proposing the development of a working group
  - Federal, State, Local & Private Industry Partnership
  - Develop an All-Hazard ANS Guide
    - What ANS options are available?
      - What are the limitations of the system?
      - Is the system appropriate for my community?
    - How can systems be tested?
    - How do we coordinate systems across jurisdictions?
    - How do we apply for approval of ANS?



FEMA



FEMA