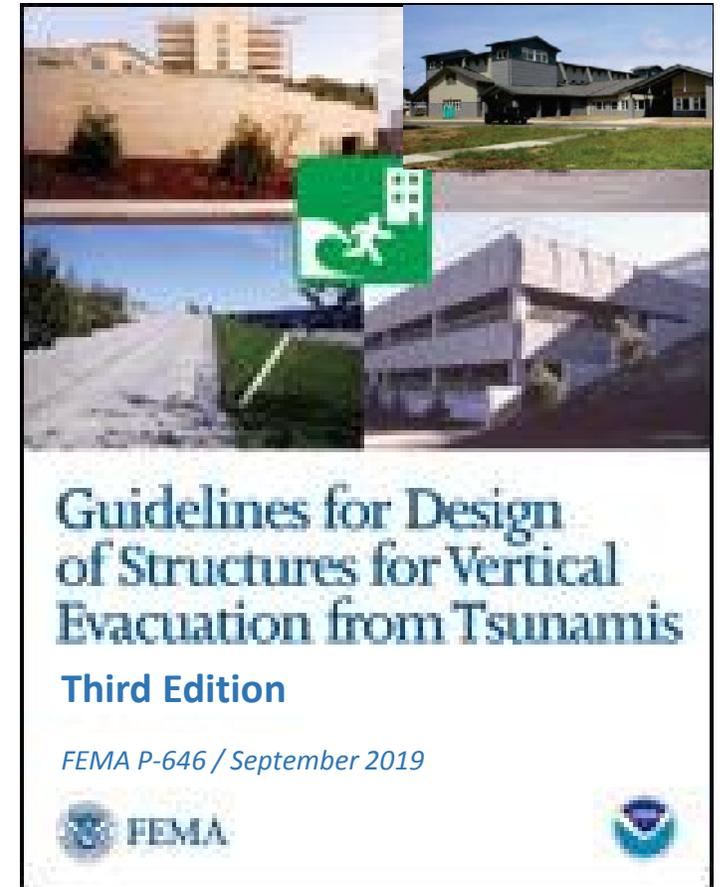


Update of Design Guidelines for Tsunami Vertical Evacuation Refuge Structures

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Updates

- This new third edition has been substantially changed since the prior edition, and since the review draft that was sent to out NTHMP partners.
 - The basis for many of these changes was the review comments from our reviewers.
- It has been completely re-organized and re-written to better recognize and achieve the dual purpose of both technical and lay audiences.
- Planning and operational considerations from FEMA P-646A have been incorporated into this document (deleting the need for FEMA P-646A).
- Planning considerations have been updated and expanded.
- Sources for potential funding have been significantly expanded.
- The distinction between refuge and shelter has been emphasized.

Updates

- Tsunami hazard assessment and modeling has been significantly updated (based on NTHMP comments).
- An explanation of the ASCE Tsunami Design Geodatabase has been added.
- The loads chapter has been significantly revised to provide additional guidance and commentary on the ASCE/SEI 7-16 provisions.
 - Design criteria that was in conflict with ASCE/SEI 7-16 have been removed.
 - It now includes an overview of the ASCE/SEI 7-16 provisions, and highlights key design aspects.
- A new chapter on considerations for existing buildings has been added.
 - This includes the concept of identifying a tsunami refuge of last resort.
- Update of all references to the latest editions of each.

Table of Contents

1. Introduction
 2. Background on Historic Tsunami Effects
 3. Planning and Funding
 4. Options for Vertical Evacuation
 5. Siting, Spacing, Sizing and Elevation Considerations
 6. Operation and Maintenance
 7. Tsunami Hazard Assessment
 8. Load Determination and Structural Design Criteria
 9. Considerations for Existing Buildings
- Appendix A: Vertical Evacuation Structure Examples
- Appendix B: Community Design Example

