

Requirements for Operational ANSS ShakeMap Systems

An Operational/Technical Plan is required for all ANSS ShakeMap operations. The following elements need to be addressed or described; those in **bold** elements are required prior to online public ShakeMap access or delivery.

- 1. Triggering:**
 - A. Automatic Triggering System
 - B. Location & Magnitude Reliability
 - C. Authoritative Solutions
- 2. Station Coverage & Requirements:**
 - A. Near or near-real time data flow
 - B. Compute Five Parameters (PGA, PGV, SA at three periods) for all stations.
- 3. Regional Coverage:**
 - A. Coverage extent, define and justify
 - B. Alarm for events outside boundaries
- 4. System Specifications**
 - A. Site Corrections
 - B. Attenuation Relationships
- 5. Operational Personnel:**
 - A. Installation & Development
 - B. Response, Emergency Contact
 - C. User Coordination
- 6. Hardware, Software, Backup:**
 - A. Backup hardware offsite/onsite
 - B. Software/Hardware Monitoring & Paging (e.g, Big Brother)
- 7. Web Page Distribution and Uniformity:**
 - A. Delivery to Earthquake Program Web Servers
- 8. Scenario Earthquakes:**
 - A. Consistent with USGS National Hazard Maps
- 9. Documentation:**
 - A. Provide Region-Specific Documentation for the ShakeMap Manual
 - B. Modify Regional Pages to reflect Regional Specifics
- 10. ANSS Coordination:**
 - A. Coordinate Operational Plan within Region with ANSS
 - B. Provide Software/Feedback to ANSS
 - C. Provide and Update Emergency Contact Information
- 11. User Coordination and Interaction**
 - A. List Significant users, Outreach Plans