Status Report – October 23, 2003

Activity: Real-time Earthquake Display

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The Real-time Earthquake Display project began organizational activities in the last quarter of FY03. Activities were focused on two tasks:

- Identifying sites for installing the prototype earthquake display systems.

  Oregon: Salem, Oregon Emergency Management and Seaside, Clatsop County. In addition, six other coastal counties have expressed interest in the system if sufficient funding exists

  Washington: State EOC and the City of Seattle Emergency Management. A meeting between NTHMP and latter agencies is planned for November 5th.

  California: Mendocino County Emergency Management Authority (Ukiah) EOC, State OES, USGS Menlo Park

  Following successful installation in these three states, we intend to expand effort to Hawaii and Alaska.

- Preparation of a contract to enhance CISN Display software to facilitate its use by emergency responders in all regions of the US, Puerto Rico, and Guam. Contract should be awarded by end of November. CISN Display software is still in beta mode and release of Version 1 is expected in 1st quarter of 2004. Product enhancements specific to this project and funding by this project will include:

  i) **Additional Maps**: Maps for the following regions. Provide direct zoom capability from global scale to regional scale.

     (1) Global

     (2) Hawaii

     (3) Alaska

     (4) Puerto Rico

     (5) Guam

     (6) West Coast of Canada, the US and Mexico

  ii) **Default view**: Modify software so that the center-latitude/longitude values entered by the user become the default values.

  iii) **Banner**: Allow users ability to replace existing "The California Integrated Seismic Network Display" banner with one of their own design.

  iv) **GIS**: To facilitate user configuration of Display for their particular region, compile GIS layers, where available, for all regions in the US, Puerto Rico, and Guam that include the following landmarks, at minimum:

     (1) Towns/Urbanized areas

     (2) National, State and/or County boundaries

     (3) Lakes, Major rivers

     (4) State or Local Roads

     (5) Major Highways

     (6) Faults

v) **Configurable Product Buttons**: Provide users the ability to configure the type of information to be displayed in the 3 buttons currently labeled “Info”, “Products”, and “ShakeMap”. For example, users may wish to display, if available, buttons for “Tsunami Warning Statement”, “Mechanism”, and “Aftershock Statement”.

vi) **Event ID association**: The federated nature of the ANSS creates complications for earthquake information in terms of a single, unchanging “handle” or event ID number for an event. Modification will enable the West Coast/Alaska Tsunami Warning Center (WC/ATWC) tsunami warning/watch statements to be shown even if their earthquake location is superceded by locations from other sources like the NEIC or regional networks.

vii) **Improved Audible Alarming Behavior:** Develop client software that enables users to configure multiple rules for generating audible alarms based on earthquake information. Alarm criteria will include, for example

(1) Geographic region (inclusive/exclusive) specified as either a) multipoint polygon or b) center point + radius

(2) Minimum earthquake magnitude

(3) Reviewed status

(4) Maximum earthquake depth

(5) Local time of day interval (inclusive/exclusive)

viii) **Email**: Provide an e-mailer program with each copy of the software client. This module would allow users to custom configure emailing options for events that satisfy rules as described in above “alarm” section. The email alerts and list of email addresses would be configured via an interface on the Display. Software should only issue one email alert if multiple alarm rules are satisfied.