KINEMETRICS

OASIS *for* pEQ BORA

On-line Alerting of Structural Integrity and Safety for

Post-**E**arthquake **B**uilding **O**ccupancy **R**esumption **A**ssessment

OASIS *for* pEQ BORA is a hardware and software system for real-time occupancy resumption assessment and on-line structural monitoring for continuous integrity evaluation in response to earthquakes.

The OASIS *for* pEQ BORA consists of three subsystems: Sensor, Data Acquisition, and Software Monitoring. The subsystems can include any of the following:

Sensor Subsystems

- Acceleration
- Wind
- Temperature
- Strain
- Tilt/Deflection
- Other

Data Acquisition Subsystem

- Granite - High Dynamic Range, IP Aware, Communication Centric Multi-channel Recorder with up to 24 channels at 130 dB dynamic range.
- Q330 - Low-Power High Resolution Network-Aware System in modules of 6 channels at 135 dB dynamic range to make up data acquisition blocks of up to 36 channels.

FEATURES

OASIS *for* pEQ BORA vital functions:

- In-situ and remote, real-time alerting using onscreen imaging, light and audible alarms
- Data acquisition as a high dynamic range accelerograph
- Remote control and display of system functions
- Long-term health monitoring

Key Benefits

- For critical structures, vital lifeline applications
- Highly flexible
- Expandable through networking
- High resolution
- Continuous data transmission and display

Monitoring Software Subsystem

- Data collection and computation of velocity, displacement, drift and response spectra from acceleration data
- Real-time monitoring, Display & Alerting based on user-selectable drift ratios, including the display of the structure with color-coded alarm/alert levels
- Remote command/control of sensor & data acquisition through TCP/IP
- Execution of user-supplied Windows executable (or batch file) for further analysis, and more...

USA - 222 Vista Ave., Pasadena, CA 91107
Tel (626)795-2220 I Fax (626)795-0868

Switzerland - Z.I. Le Tresi 6B, 1028 Preverenges
Tel +41 (21) 803-2829 I www.kinemetrics.com

12-10-13