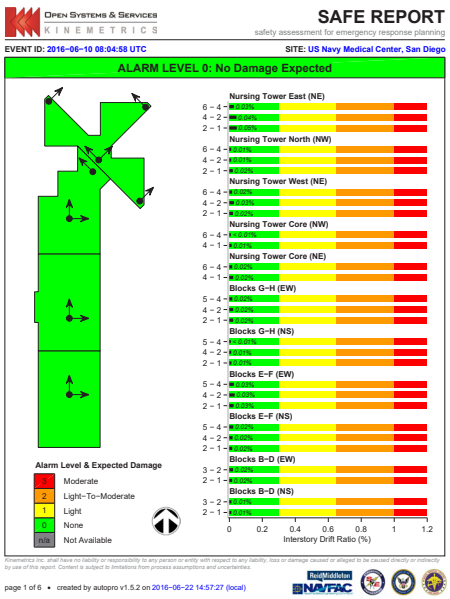
APPLICATION OF SEISMIC MONITORING SYSTEMS (SMS) FOR POST-EARTHQUAKE BUILDING SAFETY EVALUATIONS

SMS PROJECTS INCLUDE


Burj Khalifa


Naval Hospital Bremerton


Naval Medical Center San Diego


OPEN SYSTEMS & SERVICES KINEMETRICS

SAFE REPORT

safety assessment for emergency response planning

EVENT ID: 2016-06-10 08:04:58 UTC

SITE: US Navy Medical Center, San Diego

ALARM LEVEL 0: No Damage Expected

Nursing Tower East (NE)
6 – 4
4 – 2
2 – 1
Nursing Tower North (NW)
6 – 4
4 – 2
2 – 1
Nursing Tower West (NE)
6 – 4
4 – 2
2 – 1
Nursing Tower Core (NW)
6 – 4
4 – 1
Nursing Tower Core (NE)
6 – 4
4 – 1
Blocks G–H (EW)
5 – 4
4 – 2
2 – 1
Blocks G–H (NS)
5 – 4
4 – 2
2 – 1
Blocks E–F (EW)
5 – 4
4 – 2
2 – 1
Blocks E–F (NS)
5 – 4
4 – 2
2 – 1
Blocks B–D (EW)
3 – 2
2 – 1
Blocks B–D (NS)
3 – 2
2 – 1
0 0.2 0.4 0.6 0.8 1 1.2
Interstory Drift Ratio (%)

Alarm Level & Expected Damage
3 Moderate
2 Light–To–Moderate
1 Light
0 None
n/a Not Available

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Lessons learned from past earthquakes have demonstrated that hospitals and other essential facilities are susceptible to dangerous, costly, and unnecessary evacuations. This is often due to the uncertainty in determining whether or not a structure is safe to occupy or needs to be evacuated immediately following an earthquake.

By combining advanced engineering, instrumentation technology, and disaster management software, Reid Middleton and Kinemetrics have collaborated to develop and deploy innovative post-earthquake response tools that empower on-site facility management personnel to rapidly make informed decisions on the post-earthquake condition of their buildings. This webinar will provide real-world case studies of how these tools can aid in post-earthquake safety assessments for hospitals and other essential facilities.

This informative webinar + Q&A will help engineers, building managers, and disaster preparedness professionals understand how to better protect buildings and people during an earthquake.

WHEN: July 29, 2020; 10:00am

REGISTER: https://bit.ly/304l4e0

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PRESENTER

Erik Bishop, P.E.

Erik works as a senior engineer at Reid Middleton, Inc., a 70-person structural and civil engineering firm with offices in Washington, California, and Alaska. His structural practice includes new design, seismic evaluations and rehabilitation design of buildings and lifeline infrastructure, seismic resiliency studies, and the implementation of seismic instrumentation and post-earthquake response technologies. He has participated on engineering teams to research lessons learned from earthquakes and tsunamis in China (2008), Chile (2010), Mexico (2017, 2018), and California (2019). Building on these experiences, Erik has worked in several capacities in order to improve the seismic safety and resiliency of our communities, including providing post-earthquake safety evaluation trainings (ATC-20/45/Cal OES SAP), working on the development of earthquake response tools for emergency managers, and participating in various earthquake preparedness advocacy efforts. He was selected as a Housner Fellow in 2017 through the Earthquake Engineering Research Institute (EERI).

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