

**M6.0 South Napa, California
Earthquake
(American Canyon, CA)
August 24 2014**



OSHDPD EOC

Time of Occurrence

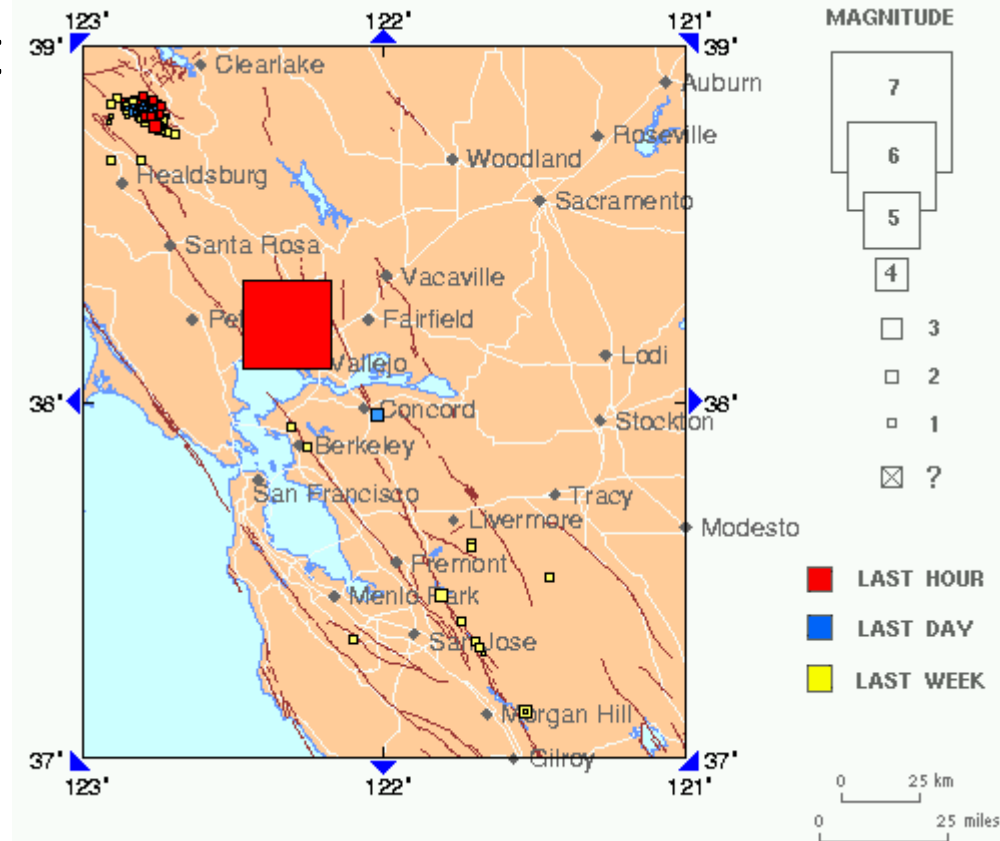
- August 24, 2014
- at 3:20 a.m.
Local time



Time stood still

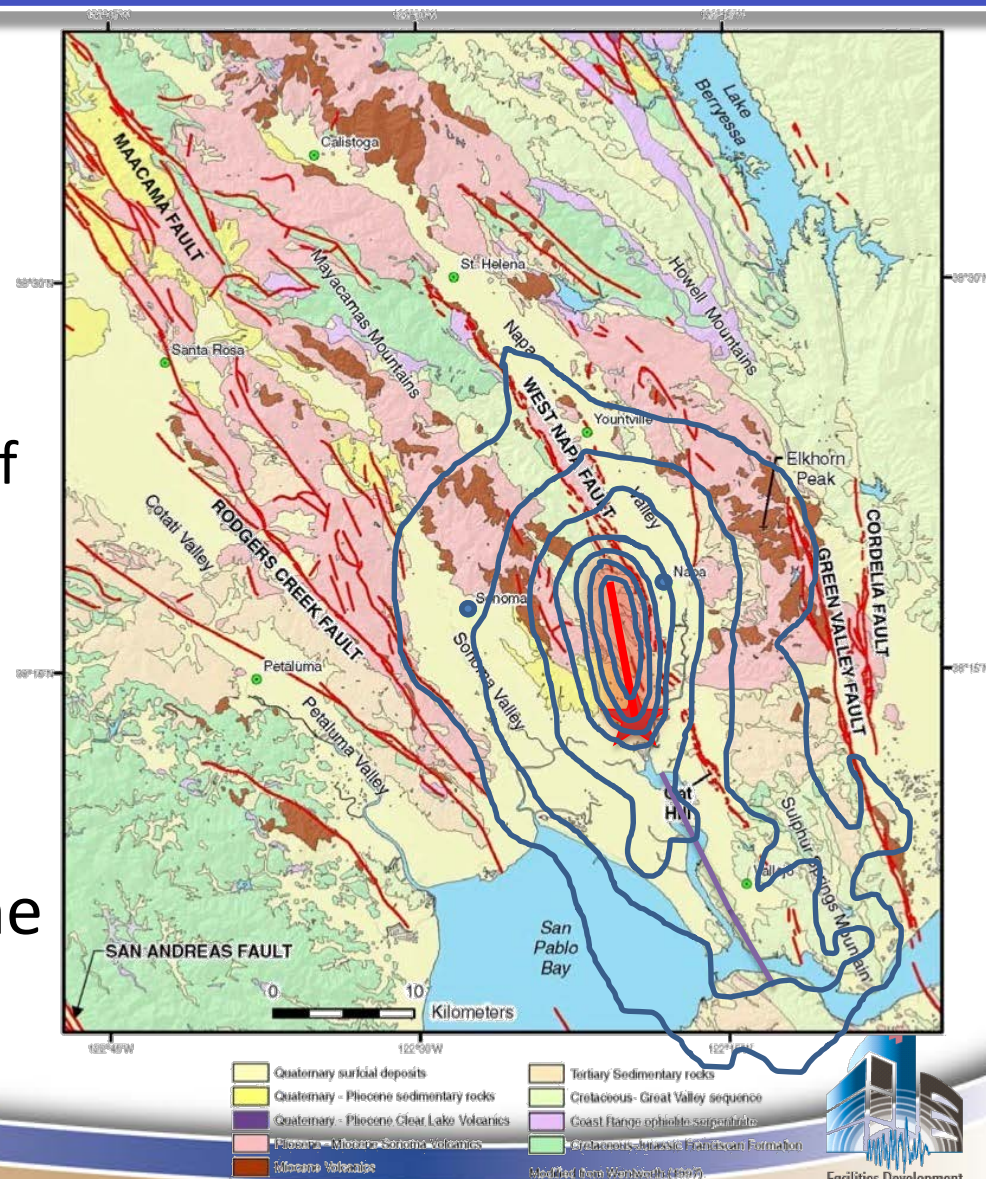
Earthquake Stats

- Magnitude 6.0 - moment magnitude (Mw)
- Distance from American Canyon, CA 4 miles NW
- Napa, CA -5 miles SSW
- Vallejo, CA - 9 miles NNW
- Santa Rosa, CA - 26 miles SE
- Depth 7.0 miles



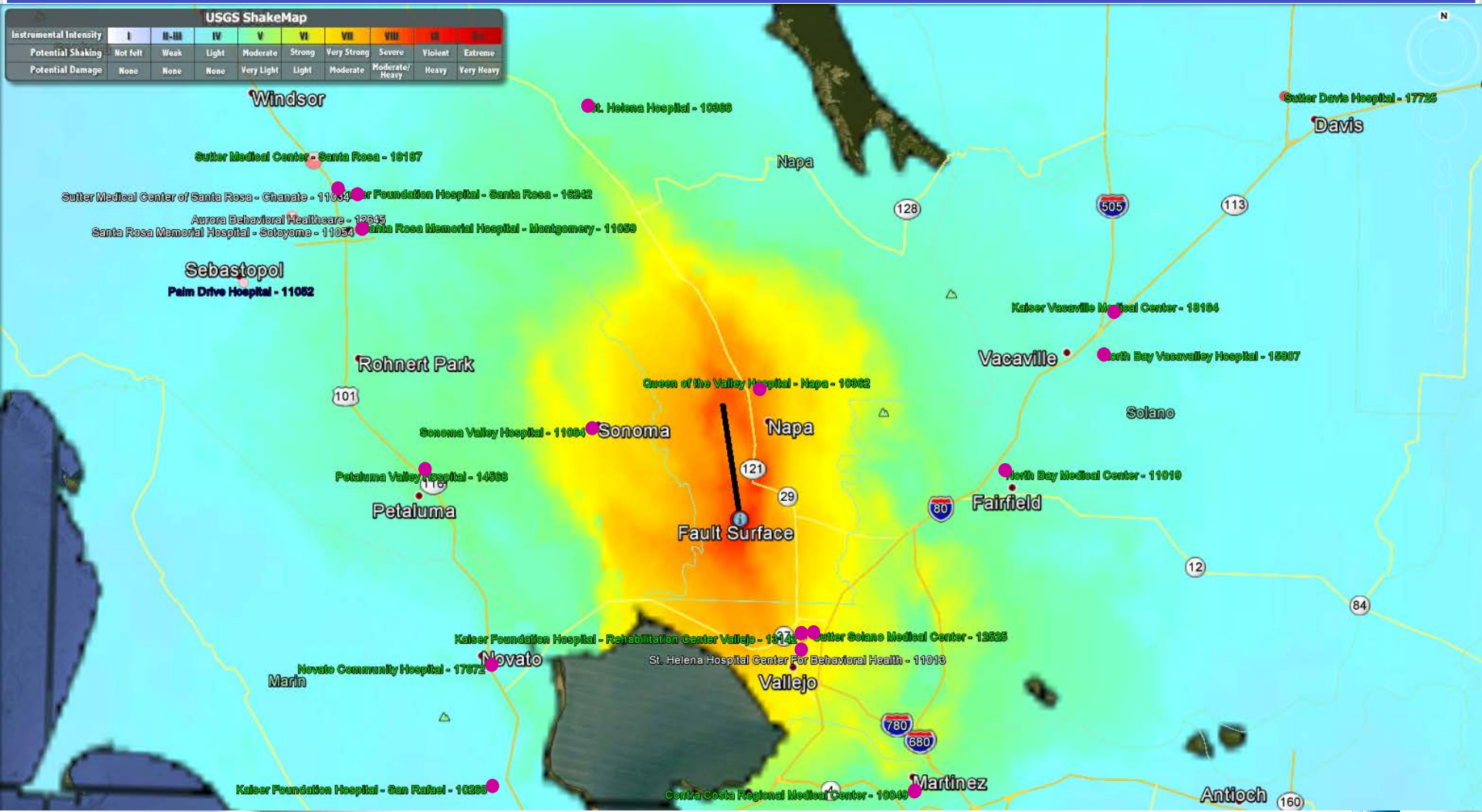
Franklin Fault or West Napa Fault?

- Quake originally attributed to the Franklin Fault
 - Inactive for thousands of years.
- After inspecting the damage, CGS declared quake occurred on the West Napa Fault, not the Franklin Fault.



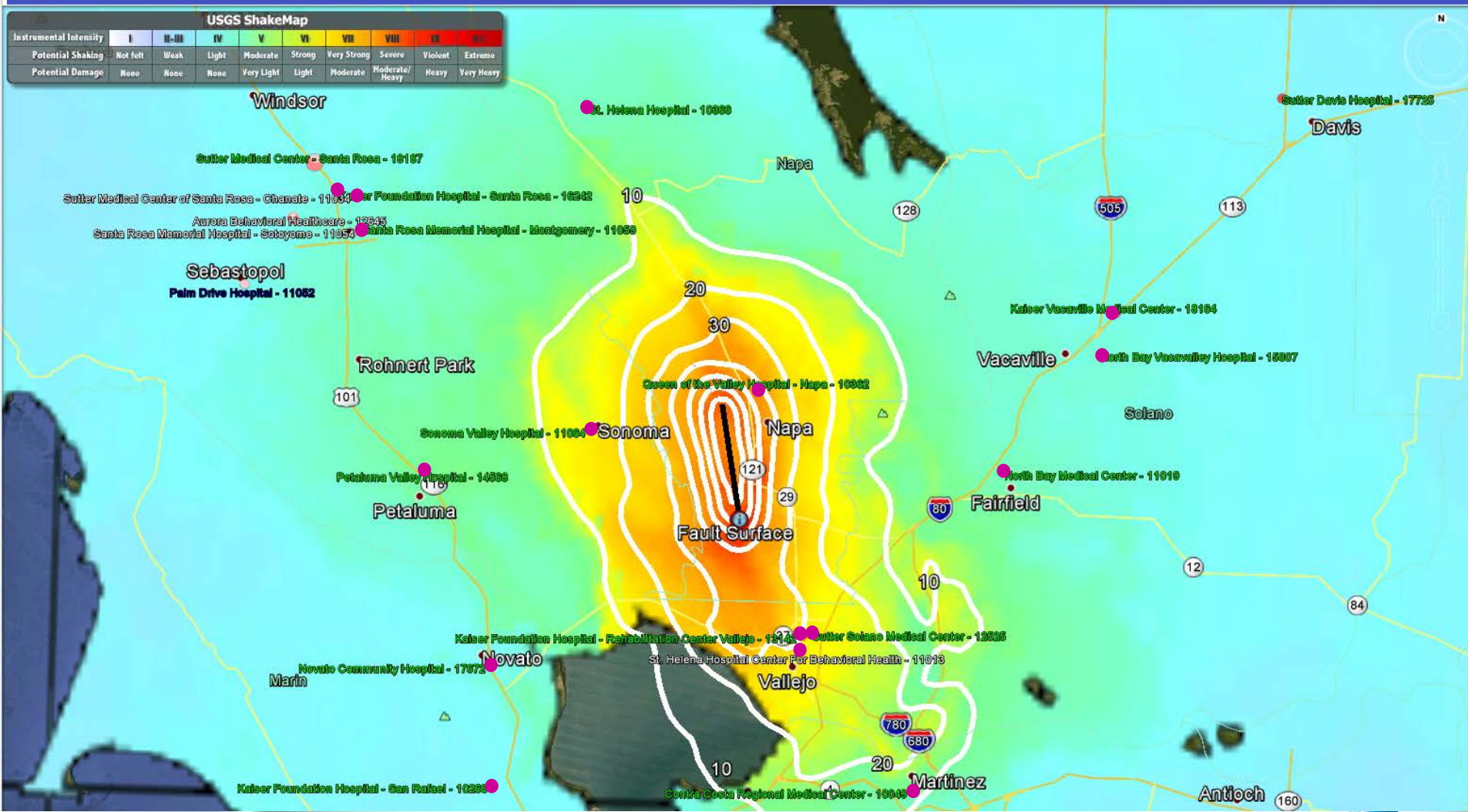
Shakemap

USGS ShakeMap									
Instrumental Intensity	I	II-III	IV	V	VI	VII	VIII	IX	X
Potential Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Potential Damage	None	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy



• Designates GAC Hospital

Shakemap - PGA



Hospital Response

- Queen of the Valley Medical Center reported **208** patients treated or admitted
 - 17 were admitted and one person in critical condition.
 - 13-year-old boy was taken in serious condition to UC Davis Medical Center.
- St. Helena Hospital reported treating eight people as of 6 p.m. Sunday

Hospital Response

- Triage tents set up to



**Queen of the Valley
Medical Center**



OSHDP Response

- EOC Activated on 8/24/14 at 0408 hours
- EOC Personnel
 - EOC (Room 452)
 - Total = 13
 - Field Operations = 22
 - ACOs = 7
 - DSE = 7
 - FLSO = 3
 - SSE = 3
 - SArch = 1
 - PSE = 1



10 Teams @
Peak Assessment



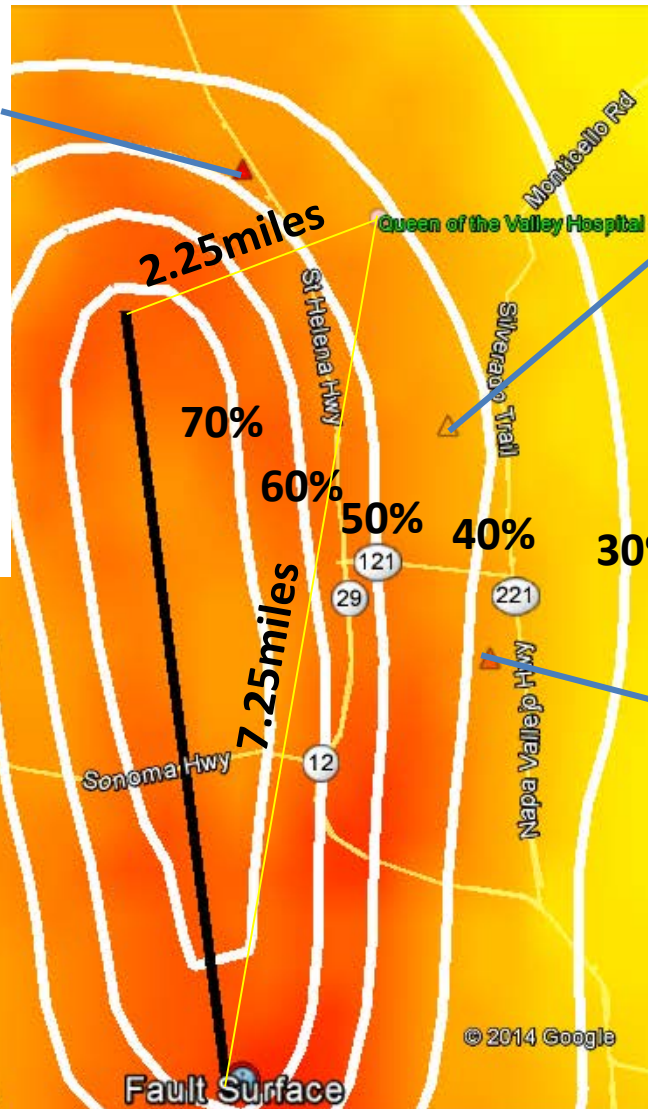
OSHPD Response

- Facilities under OSHPD jurisdiction
 - 6 General Acute Care Hospital Facilities with 58 Buildings

Hospital Name	Epicentral Dist(miles)
Kaiser Foundation Hospital - Rehabilitation Center Vallejo	7.1
Sutter Solano Medical Center	7.2
Queen of the Valley Hospital - Napa	7.7
Sonoma Valley Hospital	9.4
North Bay Medical Center	15.1
St. Helena Hospital	24.3

Network: NP
 Station ID: 1765
 Name: CA:Napa;FS 3
 Location:
 Lat: 38.3305
 Lon: -122.3184
 Distance to source: 2.6 km
 Intensity: 9.1
 PGA: 45.07 %g
 PGV: 86.87 cm/sec
 PSA0.3sec: 61.05 %g
 PSA1.0sec: 102.09 %g
 PSA3.0sec: 24.08 %g

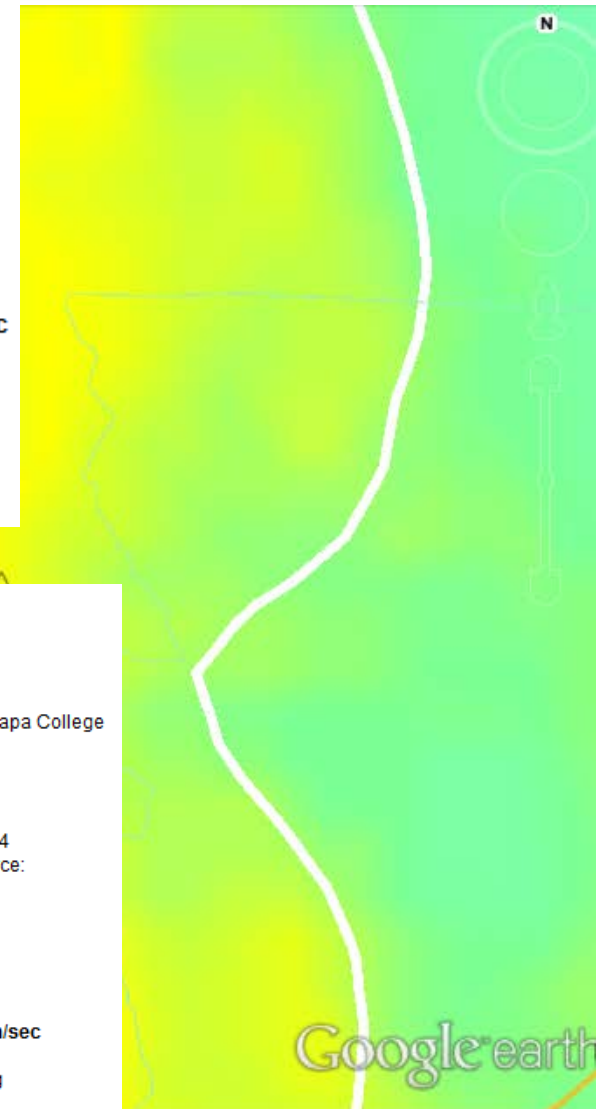
n of the Valley




Network: NC
 Station ID: N016
 Name: Main St Napa
 Location:
 Lat: 38.2988
 Lon: -122.2848
 Distance to source: 3.9 km
 Intensity: 7.7
 PGA: 64.68 %g
 PGV: 34.42 cm/sec
 PSA0.3sec: 119.78 %g
 PSA1.0sec: 41.67 %g
 PSA3.0sec: 14.67 %g

nt Motion

Network: CE
 Station ID: 68150
 Name: Napa - Napa College
 Location:
 Lat: 38.2704
 Lon: -122.2774
 Distance to source: 4.0 km
 Intensity: 8.4
 PGA: 35.80 %g
 PGV: 54.77 cm/sec
 PSA0.3sec: 81.62 %g
 PSA1.0sec: 52.51 %g
 PSA3.0sec: 10.12 %g



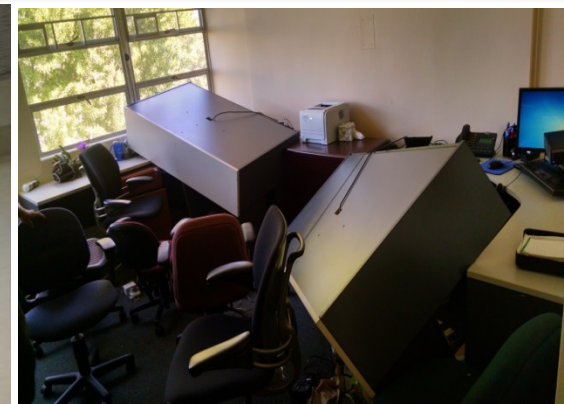
OSHDP Response

- GAC Post EQ assessment Postings
 - Queen of the Valley
 - 3 Yellow Tags 
 - Main Hospital – Building 01 -1957 (SPC1/NPC2)
 - » 2 elevators out of service
 - » Ceiling damage
 - » Cracks in elevated floor slabs/beams

Queen of the Valley MC



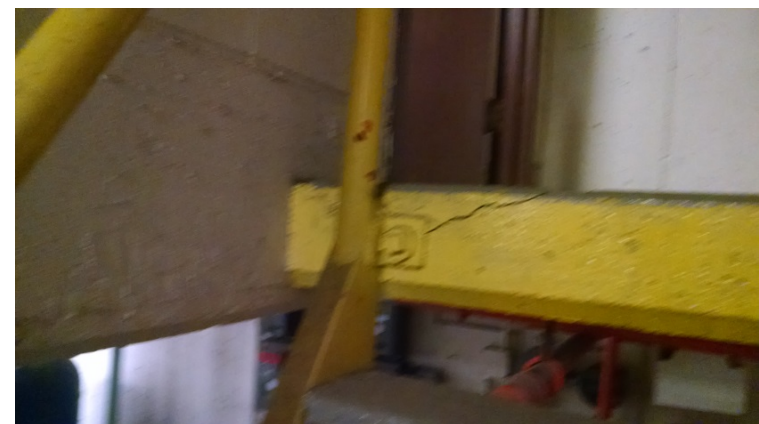
Corridor water leak



Main Hospital 3rd floor



Main hospital roof telephone rack severely out of plumb



Boiler room crack in landing

Queen of the Valley MC




Main Hospital Crack in Precast Beam



Crack in partition wall below cracked beam

OSHPD Response

- GAC Post EQ assessment Postings
 - Queen of the Valley
 - 3 Yellow Tags 
 - South Nursing Wing - Building 07 (SPC3/NPC2 3 Story bldg.)
 - » Substantial damage with displacement of storefront entrance and window system
 - » 1st floor Patient room #1114 multiple cracks in gypsum walls due to building drift.
 - » 2nd floor ICU rooms #3, 4, 5, 6, 7, Rooms 16, ICU Nurse Managers Office and Respiratory therapy
 - Exterior walls deflected out approximately ½”
 - Stucco exterior walls pulled down from upper deck at the top of wall approximately ½”

Queen of the Valley MC



South Nursing Wing Roof electrical panel damage



South Wing Nursing Tower ICU 2nd floor exterior wall (stucco on stud walls) leaning out ½"

Queen of the Valley MC



**South Nursing Wing North Elevator
Tower Seismic Joint Damage**

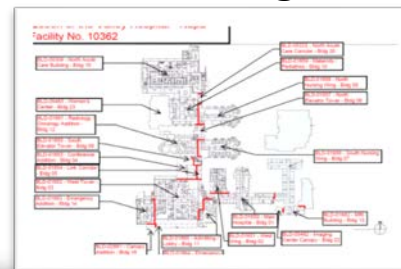


**Damage with displacement
of storefront entrance and
window system**




Queen of the Valley MC




**Bridge link 3rd floor damage
to ceiling**



OSHDP Response

- Remainder of 5 GACs Green tagged 
 - 38 Green Tags (55 Total)
- 1 General Acute Psychiatric
 - St. Helena Hospital Center For Behavioral Health
 - 1 Green Tag 
- 16 SNFs
 - 16 Green Tags 

OSHDP Response

- GAC Post EQ assessment Postings
 - Queen of the Valley
 - 3 Yellow Tags 
 - North Acute Care Corridor – Building 18 (SPC5s/NPC NYA 3 Story bldg.)
 - » Ceiling grid damaged and dropped on floor. Grid appeared to lack lateral bracing.
 - Remainder 17 buildings Green Tagged 