



Diablo Canyon Advanced Seismic Studies Report Fact Sheet

Advanced Seismic Research: How did we get here?



PG&E maintains an ongoing Long Term Seismic Program to continually assess seismic safety at Diablo Canyon Power Plant (DCPP). Between 2010-2013, PG&E conducted advanced seismic research by land and sea to further document the seismic characteristics of the fault zones in the region surrounding DCPP. The final report, completed in 2014, has given PG&E, as well as scientists and regulators, an unprecedented view into the earth's crust that significantly increases our understanding of seismic characteristics near DCPP.

1. Why did PG&E perform advanced seismic research?

- Provides a more detailed picture of the region's complex geology
- Provides research to federal and state oversight bodies
- Supports new NRC-mandated seismic hazard re-evaluation, required for all U.S. nuclear power plants
- Provides research to local agencies to incorporate into emergency preparedness plans
- Supports Long Term Seismic Program, which continually assesses seismic safety at DCPP
- Complies with the California Energy Commission AB1632 report recommendation to perform 3D seismic reflection profiling and other advanced geophysical studies of the faults around DCPP



2. What do the results show us?

- Unprecedented look into the Earth along the local coastline
- Confirms previous analyses that the plant and major plant components are designed to withstand – and perform major safety functions – during and after a major seismic event
- Details key regional seismic features, including Hosgri and other faults
- Provides updated information on the level of potential shaking that could be produced by earthquakes on local geologic faults
- Significantly enhances understanding about the seismic risk to Diablo Canyon Power Plant
- Shows us how rock beneath the plant behaves during a seismic event

3. What happens next?

- Data will support PG&E's commitment to continually assess seismic safety at DCPP
- Research will support new, NRC-mandated seismic hazard re-evaluation, due March 2015
- Research results will be folded into Long Term Seismic Program

