

Diablo Canyon SSHAC Level 3 Study

SSC Sensitivity Results

Nick Gregor

November 6, 2012



PG&E DCPD SSHAC Study



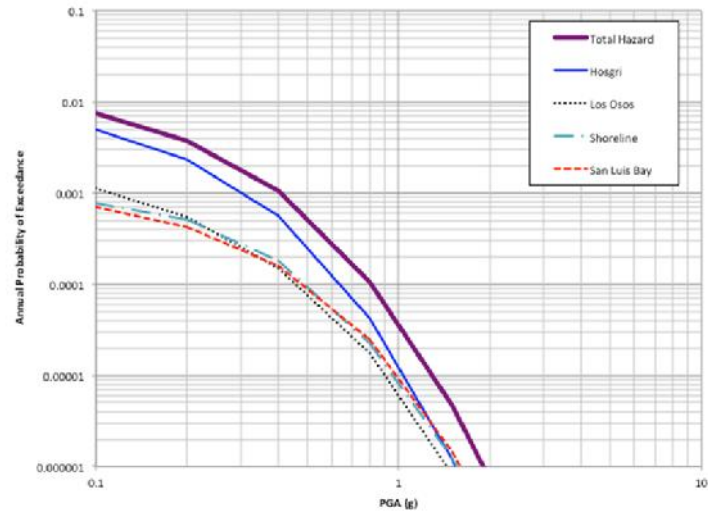
PG&E DCPD SSHAC Study

Sensitivity – Base Case

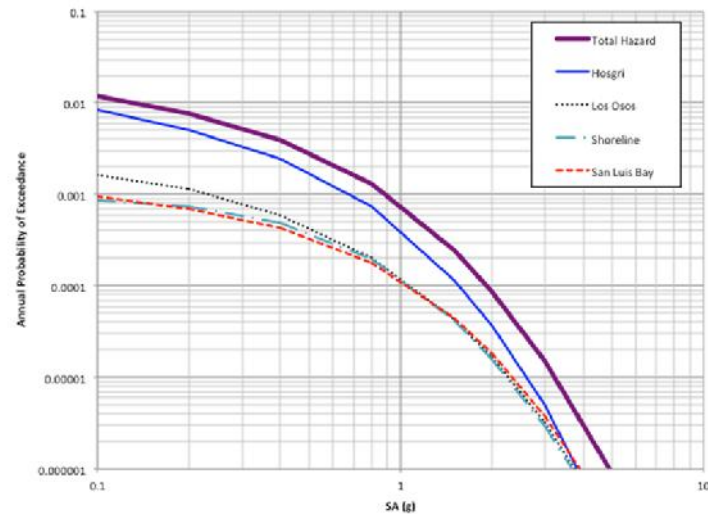
- Seismic Sources
 - Hosgri
 - Los Osos
 - Shoreline
 - San Luis Bay
- Ground Motion Prediction Equations (Shoreline Report)
 - 5 NGA Models (AS, BA, CB, CY, ID)
 - Equally weighted with Epistemic Uncertainty
 - Site Specific amplification adjustments
 - Single Station Sigma



SSC Sensitivity – Base Case, PGA

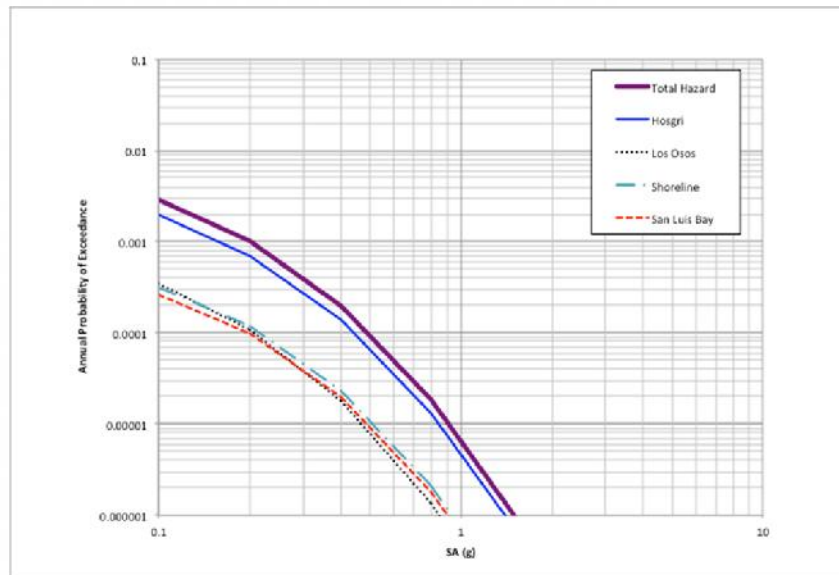


SSC Sensitivity – Base Case, 5 Hz





SSC Sensitivity – Base Case, 0.5 Hz

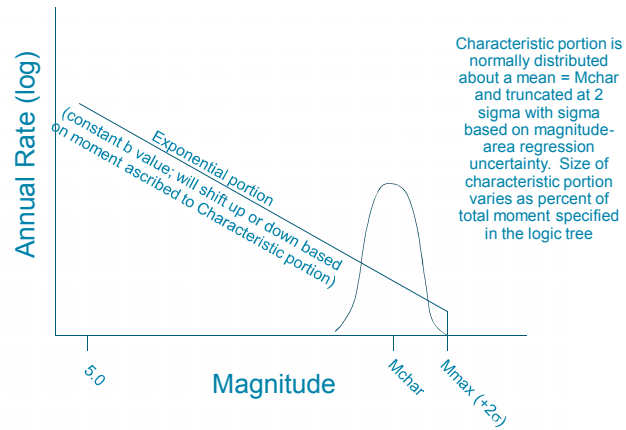


SSC Sensitivity – Logic Tree Parameters

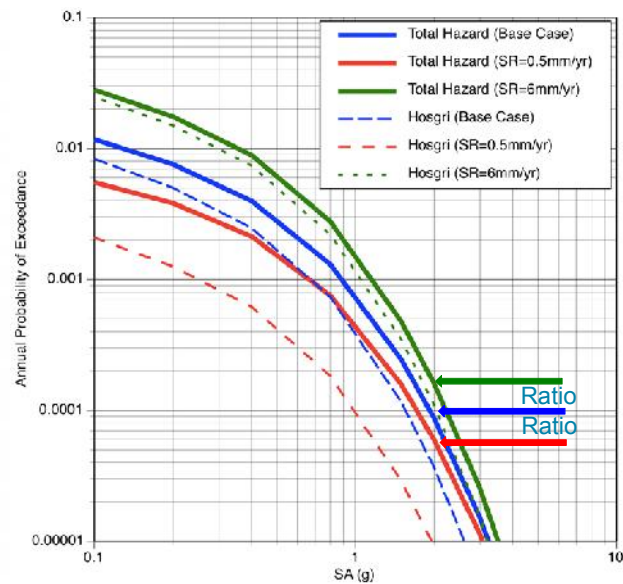
- Global Parameters
 - Recurrence Model
 - Magnitude Frequency Distribution
 - Magnitude – Area Relationship
 - Minimum Magnitude
- Fault Specific Parameters
 - Slip Rate
 - Dip / Location
 - Fault Length
 - Fault Rupture Length
 - Linked with Hosgri (Shoreline and San Luis Bay)



SSC Sensitivity – Magnitude Frequency Distribution

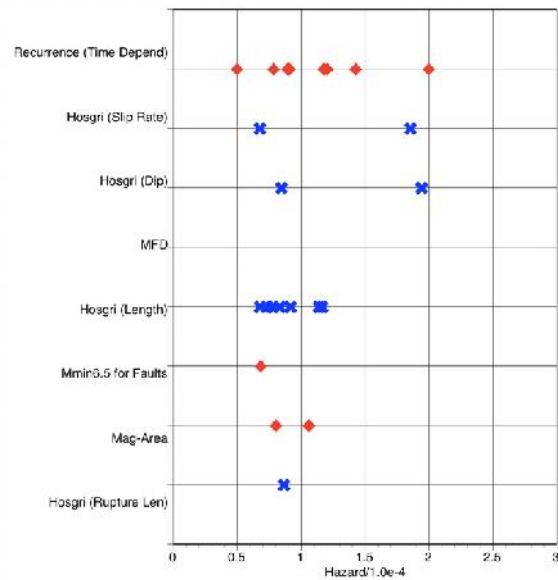


SSC Sensitivity – Example

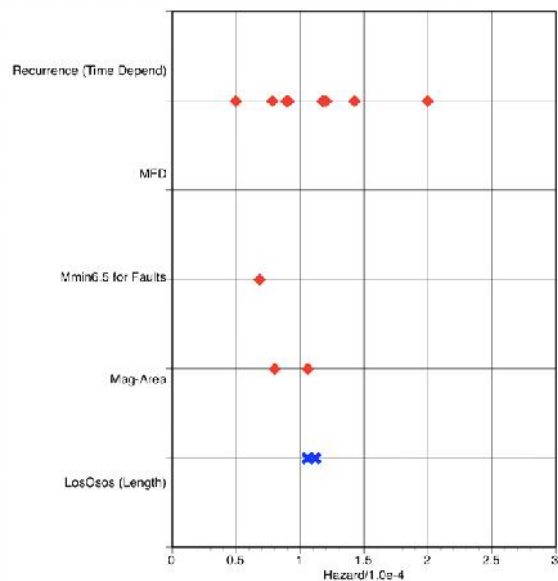




SSC Sensitivity Tornado Diagram – Hosgri (5 Hz)

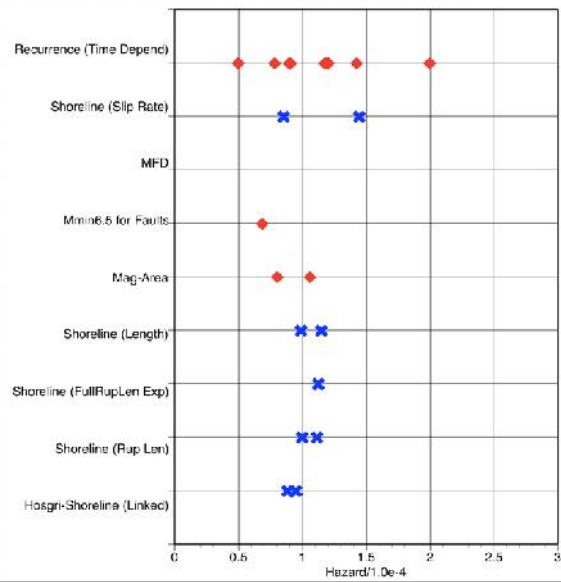


SSC Sensitivity Tornado Diagram – Los Osos (5 Hz)

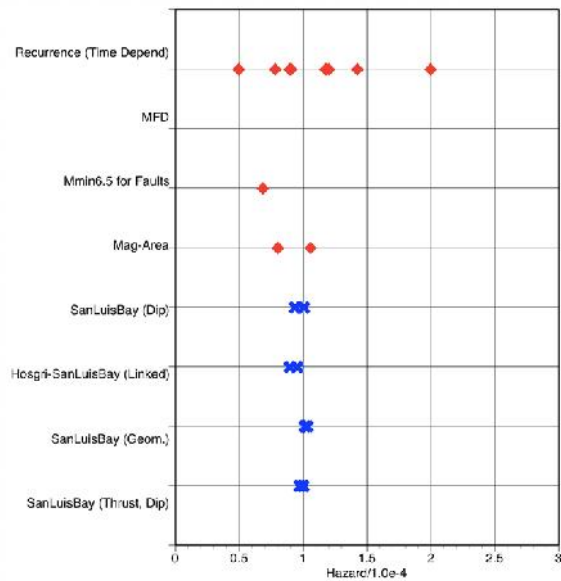




SSC Sensitivity Tornado Diagram – Shoreline (5 Hz)

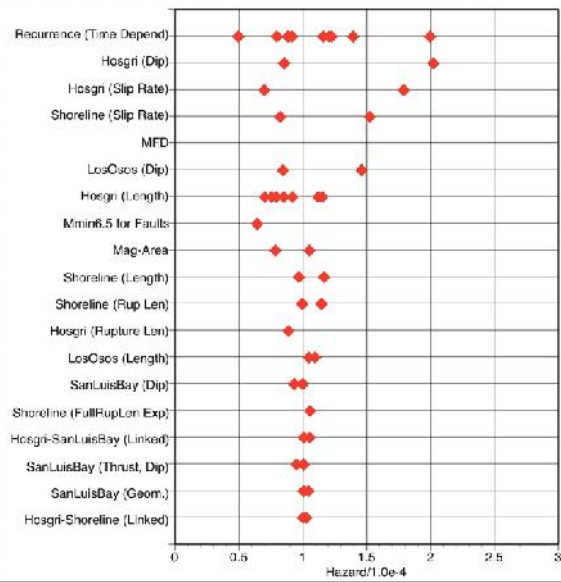


SSC Sensitivity Tornado Diagram – San Luis Bay (5 Hz)

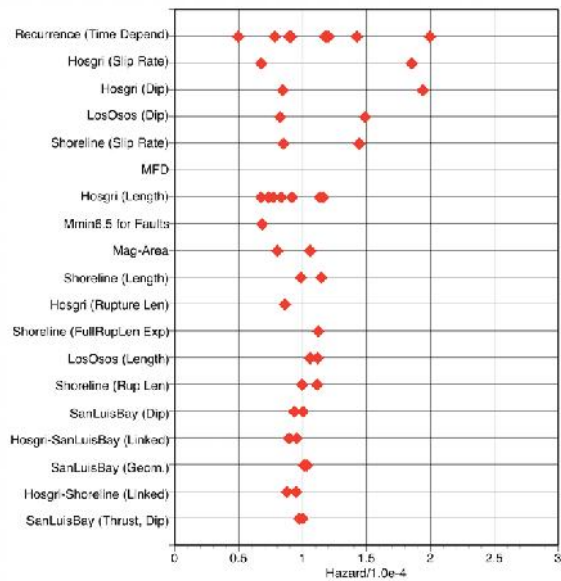




SSC Sensitivity Tornado Diagram - PGA

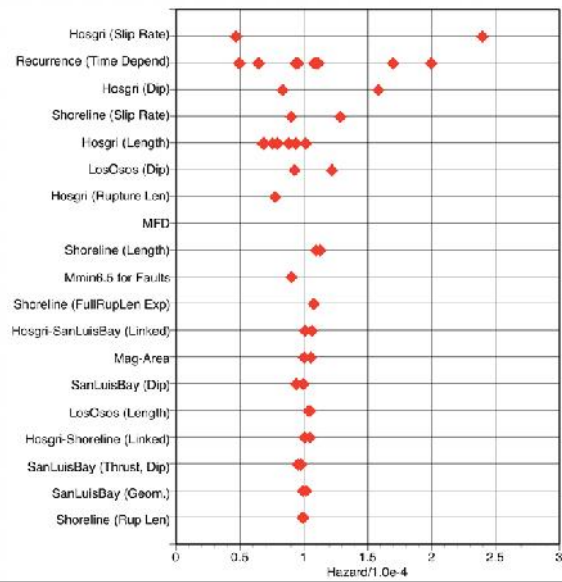


SSC Sensitivity Tornado Diagram - 5 Hz





SSC Sensitivity Tornado Diagram – 0.5 HZ



Diablo Canyon SSHAC Level 3 Study

Thank You

