



DISCUSSION

Maps prepared by United States Geological Survey (USGS) in collaboration with the Federal Emergency Management Agency (FEMA)-funded Building Seismic Safety Council (BSSC) and the American Society of Civil Engineers (ASCE). The basis is explained in commentaries prepared by BSSC and ASCE and in the references. Ground motion values contoured on these maps incorporate:

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 a target risk of structural oldapse equal to 19% in 50 years
 based upon a generic structural fragility

 a factor of 1.1 and 1.3 for 0.2 and 1.0 sec, respectively, to
 adjust from a geometric mean to the maximum response
 regardless of direction
- regardees of carection

 deterministic upper limits imposed near large, active faults, which are taken at 1.8 times the estimated median response to the characteristic earthquake for the fault (1.8 is used to represent the 84th percentile response), but not less than 150% and 60% g for 0.2 and 1.0 see, respectively.

 As such, the values are different from those on the uniform-

As your, the values are different from those on the unfrom-hazard 2003 USGS National Seismic Hazard Maps for Puerto Rico and the U.S. Virgin Islands posted at http://earthquake.usgs.gov/hazmaps.

Larger, more detailed versions of these maps are not provided because it is recommended that the corresponding USGS web occasion is recommended using at the Corresponding USUS web tool (http://earthquake.using gov/designmaps or http://content.seinstitute.org) be used to determine the mapped walue for a specified location.

50 0 50 Miles 50 0 50 Kilometers

REFERENCES

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FIGURE 1613.2.1(6)

RISK-TARGETED MAXIMUM CONSIDERED EARTHQUAKE (MCE,) GROUND MOTION RESPONSE ACCELERATIONS FOR PUERTO RICO AND THE UNITED STATES VIRGIN ISLANDS OF 0.2- AND 1-SECOND SPECTRAL RESPONSE ACCELERATION (5% OF CRITICAL DAMPING)