## Earthquake Ground Motion, 0.2 Second Spectral Response International Building Code 2012:

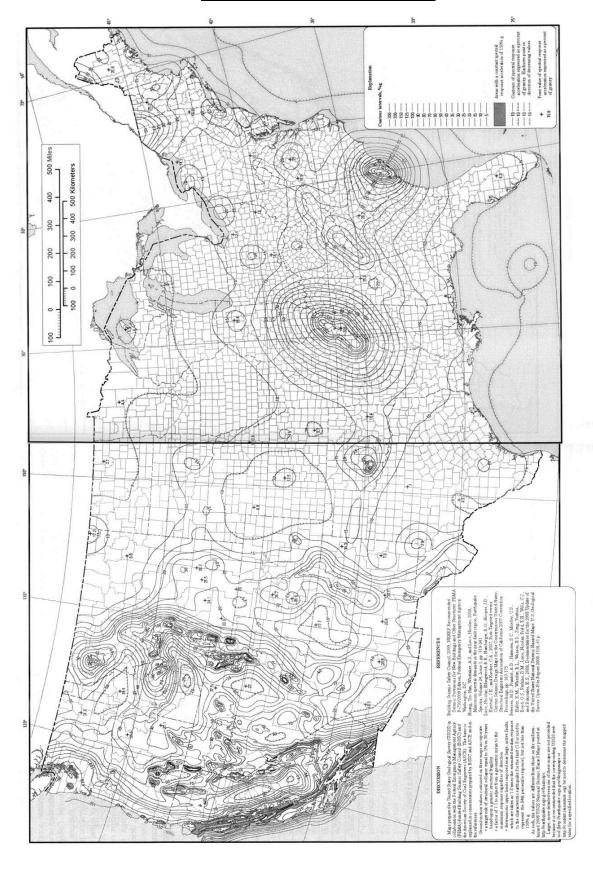


FIGURE 1613.3.1(1)
RISK-TARGETED MAXIMUM CONSIDERED EARTHOUAKE (MCE<sub>B.</sub>) GROUND MOTION RESPONSE ACCELERATIONS
FOR THE CONTERMINOUS UNITED STATES OF 0.2-SECOND SPECTRAL RESPONSE ACCELERATION
(5% OF CRITICAL DAMPING), SITE CLASS B

## US Geological Survey, Earthquake Hazards Program, ShakeMap Scientific Background at http://earthquake.usgs.gov/eqcenter/shakemap/background.php

## Spectral Response Maps

Following earthquakes larger than magnitude 5.5, spectral response maps are made. Response spectra portray the response of a damped, single-degree-of-freedom oscillator to the recorded ground motions. This data representation is useful for engineers determining how a structure will react to ground motions. The response is calculated for a range of periods. Within that range, the International Building Code (IBC) refers to particular reference periods that help define the shape of the "design spectra" that reflects the building code.