



Contour intervals, % g	Explanation
175	Point value of spectral response acceleration expressed as a percent of gravity
150	Contours of spectral response acceleration expressed as a percent of gravity. Hatchures point in direction of decreasing values.
125	
100	
80	
75	Locations of faults (see DISCUSSION).
60	
50	
40	
30	
25	
20	
15	
10	
8	
6	
4	
2	
0	

DISCUSSION

The acceleration values contoured on this map are for the random horizontal component of acceleration. For design purposes, the reference site condition for the map is to be taken as Site Class B. The values on the map are based on the edge of the fault line located closest to the earth's surface. Only the portion of the fault used in determining design values is shown. The number on the fault is the deterministic median spectral response acceleration times 1.5. The values on the fault portion shown may be used for interpolation purposes. The values on the map are based on the edge of the fault line located closest to the earth's surface. Only the portion of the fault used in determining design values is shown. The number on the fault is the deterministic median spectral response acceleration times 1.5. The values on the fault portion shown may be used for interpolation purposes.

The National Seismic Hazard Mapping Project Web Site, <http://seis.nsi.gov>, contains electronic versions of this map and other maps. Data values, and AEC/ASCE coverages used to make the maps are also available.

Map prepared by U.S. Geological Survey.

REFERENCES

Building Seismic Safety Council 2004, NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures, Part 1 - Provisions, FEMA 450.

Building Seismic Safety Council 2004, NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures, Part 2 - Design Parameters, FEMA 450.

Leyendecker, E., Frankel, A., and Rukstales, K., 2001, Seismic Design Parameters, U.S. Geological Survey Open-File Report 01-437.

Leyendecker, E., Frankel, A., and Rukstales, K., 2004, Seismic Design Parameters, U.S. Geological Survey Open-File Report (in progress).

Map of Alaska Seismic Hazard Mapping Project Web Site, <http://seis.nsi.gov>.

Wesson, R., Frankel, A., Mueller, C., and Hansen, S., 1999, Probabilistic Seismic Hazard Maps of Alaska, U.S. Geological Survey Open-File Report 99-36.

Wesson, R., Frankel, A., Mueller, C., and Hansen, S., 1998, Probabilistic Seismic Hazard Maps for Peak Horizontal Acceleration and Horizontal Spectral Response Acceleration for 0.2, 0.3, and 1.0 Second Periods U.S. Geological Survey Geologic Investigation Series I-2679, scale 1:7,500,000.

FIGURE 1613.5(12)
MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION FOR ALASKA OF
1.0 SEC SPECTRAL RESPONSE ACCELERATION (5% OF CRITICAL DAMPING), SITE CLASS B