Ground Motion Selection and Modification (GMSM) Working Group
10am – 2pm September 18, 2006

Participants: Marcello Bianchini, Yousef Bozorgnia, Allin Cornell, Christine Goulet, Erol Kalkan, Nico Luco, Tom Shantz, Polsak Tothong, Jennie Watson-Lamprey, Tony Yang , Farzin Zareian

List of ground motion selection and modification methods

Nico's presentation will be posted on the GMSM website.

The lead authors from the Nicos list are requested to review the information from the list and fill in any missing information.

An email will be distributed to the lead authors from the list of selection methods requesting that they review the information we have compiled on their method and provide any additional information as necessary. They will also be asked to provide suites of ten time series, details below. The information is to be returned to the GMSM working group by October 16th for inclusion in the COSMOS meeting. Jennie, Nico, Christine and Yousef will draft the email and send it out.

Progress on nonlinear structural models

Farzin provided the group with the structural characteristics of the models that were requested, he will forward the information to be posted on the GMSM website. Additionally, he has completed the structural analysis runs using the 98 time series and will distribute the results to Christine and Jennie.

Tony Yang gave an overview of the upcoming analyses for tall buildings.

Progress on Estimation of Structural Response

Jennie will update the blue line and green line using NGA GrMPEs, check the spectral acceleration values, and add a histogram of the nonlinear runs using the 98 unscaled records.

Requests for time series

Suites of time series will be requested from the lead authors of time series selection methods. They are requested to provide suites for estimation of either the pdf of maximum interstory drift conditioned on magnitude, distance, mechanism and site or the pdf of maximum interstory drift conditioned on magnitude, distance, mechanism, site and the plus one sigma pseudo-spectral acceleration at the fundamental period. Response spectra will be provided to aid in selection. The structure is the 4-story RC building modeled by Curt. The event is: Mw = 7, Rrup = 10km, strike slip, Vs30 = 400m/s. The suite is to consist of not less than seven and no more than ten time series selection from the PEER NGA database. The group requests the record number,

component and a scale factor to apply. The information is to be returned to the GMSM working group by October 16th for inclusion in the COSMOS meeting.

Upcoming Meetings

Monday October 23rd – Coordination meeting for GMSM public meeting

Friday October 27th – GMSM Public Meeting
Yousef, Jennie, Christine and Nico will compile a list of attendees. The meeting will take place either at UC Berkeley campus or RFS.

Thursday November 9th – Next GMSM working group meeting

Friday November 17th – COSMOS Annual Meeting Technical Session
The agenda can be found on the COSMOS website.