**Answer sheet Module: Nonlinear response history analyses of structures**

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|  | **Required result** |
| 1f | Summarize the results in the following figures:   1. A plot of the response spectra of selected and scaled ground motion records.   **MCEr**  **DBE**   1. Save the analysis data from EE-UQ, and then post process the data with following outputs. 2. A plot of the peak inter-story drift ratios (PID) and their average, median, and dispersion. 3. A plot of the peak floor acceleration (PFA) and their average, median, and dispersion. 4. The maximum PID and PFA of the median profile along the building height.   **MCEr**  Maximum PID =  Maximum PID of the median =  Maximum PFA =  Maximum PFA of the median =  **DBE**  Maximum PID =  Maximum PID of the median =  Maximum PFA =  Maximum PFA of the median = |
| 1g | Comment on your results. Do you think that this building is safe? Why? How do the NLRHA results relate to the pushover results from Module No. 3? How do the peak floor accelerations relate to the response spectrum? |