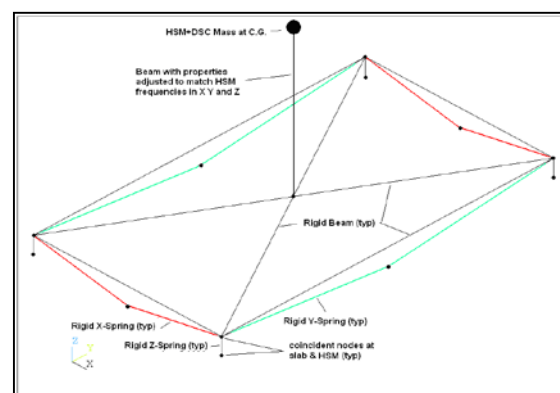
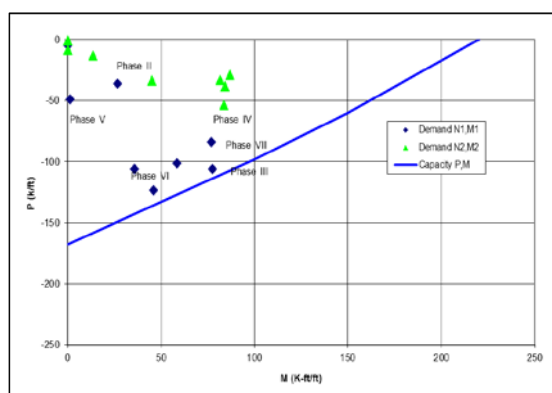
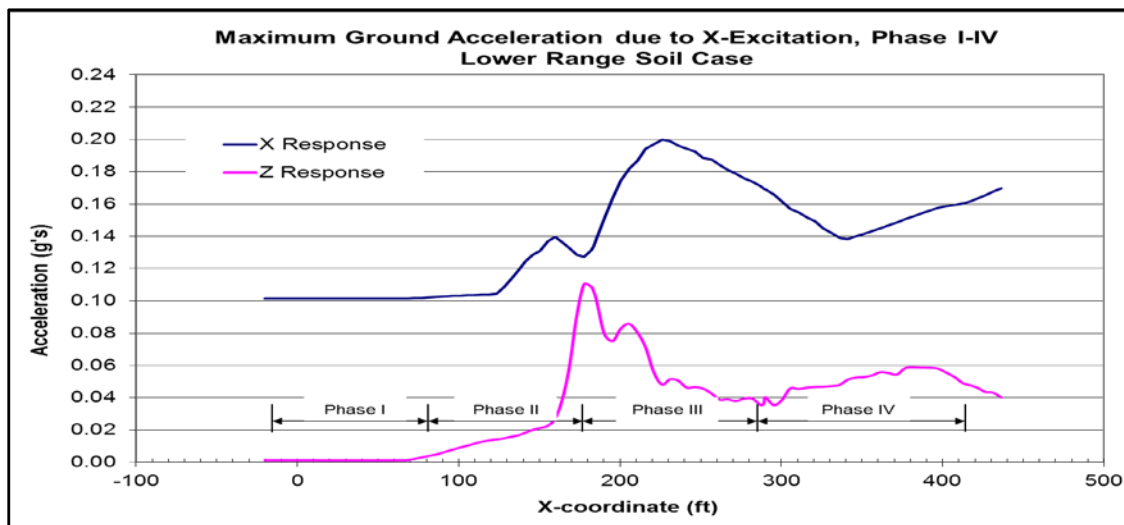
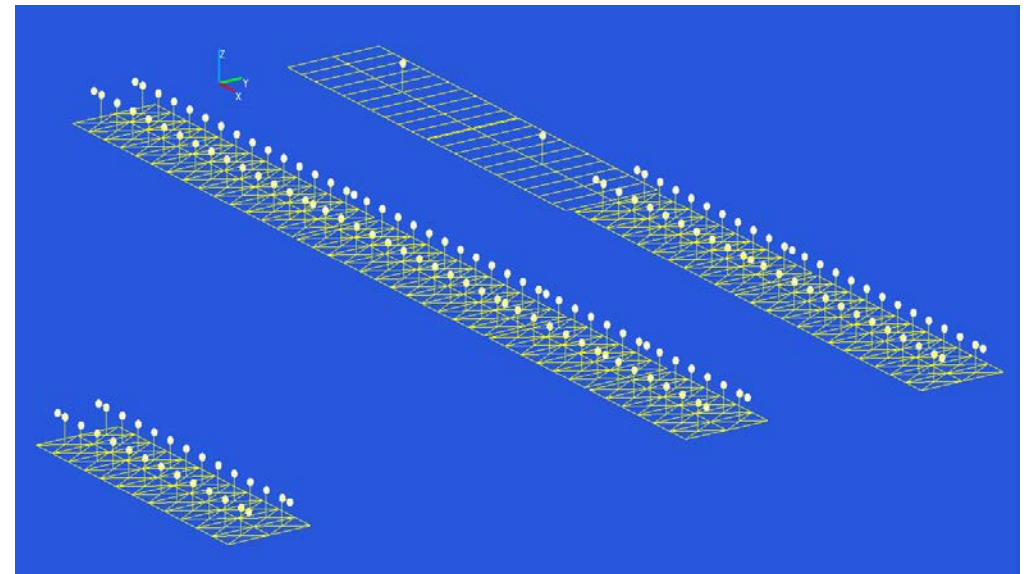
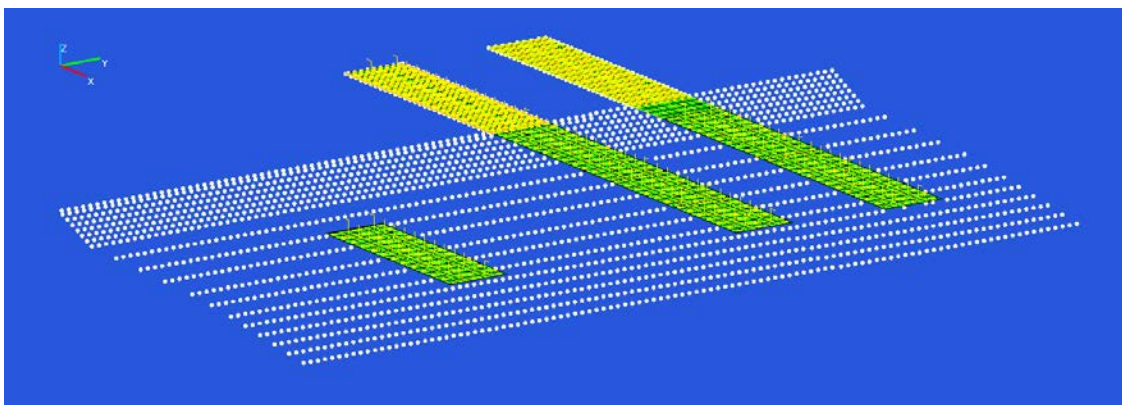
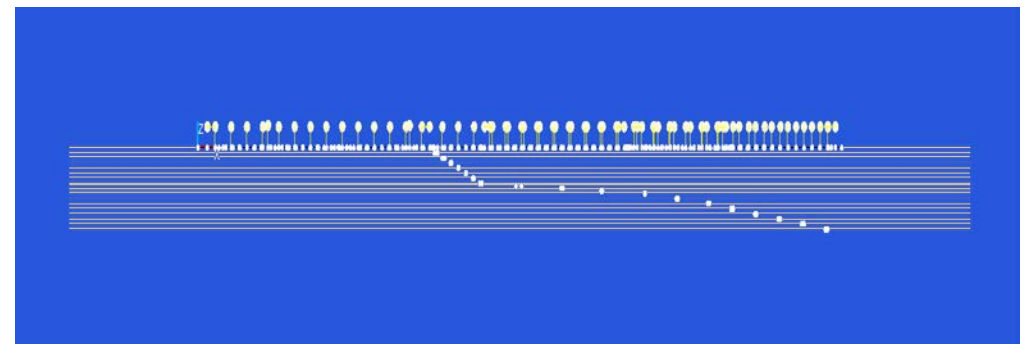
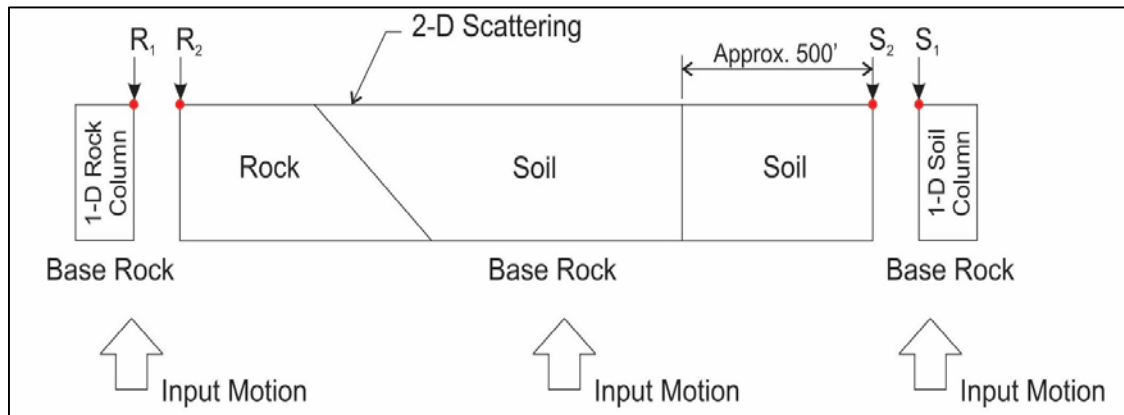
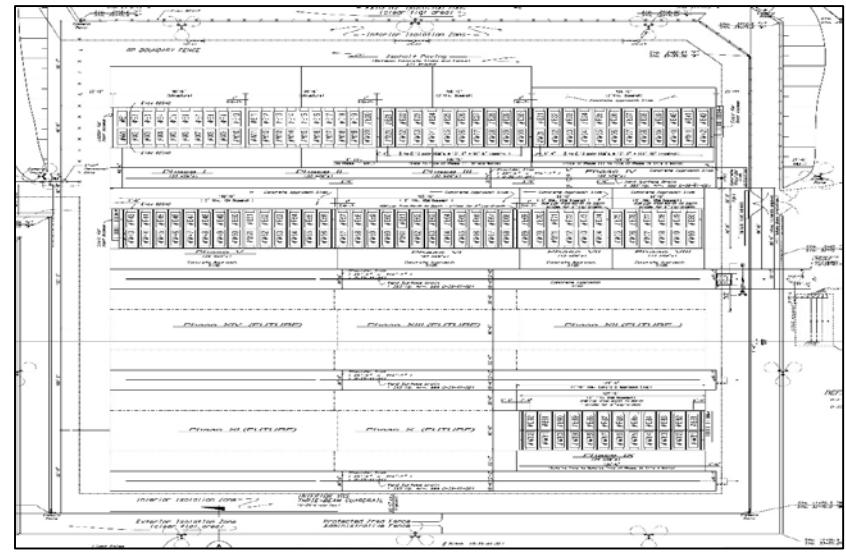


Seismic Qualification of Spent Fuel Storage Installation Expansion



An Independent Spent Fuel Storage Installation required expansion in order to accommodate the continued on-site storage of spent fuel at the facility. Seismic analysis of the proposed expansion required addressing the effects of the structure-soil-structure interaction and sloping rock condition at the site on the structural response. To meet these challenges, MTR/SASSI with the capability to efficiently analyze large-scale, 3-D structures founded on sloping rock condition was used. The results of the analysis in terms of the envelope of maximum accelerations, in-structure response spectra, and slab forces and moments were calculated and used for seismic qualification.