

RECENT MAJOR PROJECT EXPERIENCE

EPRI/DoE Ground Motion Study - Developed guidelines for conduct of site investigations and site response analyses including updated generic shear modulus reduction and damping curves.

Mormon Island Auxiliary Dam, California - Member of consulting board (with J.K.Mitchell, L.W.D.Finn and R.B.Peck) for Bureau of Reclamation on seismic upgrade.

Seven Oaks Dam, San Bernardino County, for Los Angeles District, Corps of Engineers. Consultant on design and construction of major dam adjacent to the San Andreas fault.

San Francisco - Oakland Bay Bridge, East Span Seismic Safety Project - With Earth Mechanics Inc., member of seismic ground motion team, team leader for studies of seismic stability of the Oakland Mole.

Yucca Mountain Nuclear Waste Repository - Member of Seismic Advisory Panel (with J.C.Stepp, C.A.Cornell, R.P.Kennedy and C.A.Costantino).

San Pablo Dam, Orinda, California - Member of board of technical review board (with J.K.Mitchell and Don Babbitt) for East Bay Municipal Utility District on seismic upgrade to a major dam in a populated area.

Chemical and Metallurgical Research Laboratory Replacement, Los Alamos National Laboratory. Consultant on seismic issues associated with design of major nuclear research facility.

Idaho National Laboratory. Member, Blue Ribbon Panel for review of seismic design of IWTU (with C.A.Costantino, T.Houston, R.Lee and W.Lettis).

Bay Area Rapid Transit System, San Francisco Transition Structures and TBT Uplift Studies. Consultant to Parsons Brinkerhoff and BART.

Treasure Island, San Francisco Bay. Key consultant to development team on proposed \$6 billion commercial-residential re-development of former Navy base located on potentially liquefiable sands and soft Bay Muds. Facilitator of Independent Review Panel comprised of Professors J.K.Mitchell, I.M.Idriss, R.B.Seed and R.W.Boulanger.

Hondsbosche and Pettermer Dikes, for ARCADIS NL, the Netherlands. Third party review of proposed raise of critical North Sea dike.

Delta Stewardship Council, California. For ARCADIS US, initial project manager for independent review of the Bay Delta Conservation Plan.

Delta Protection Commission, California. With University of the Pacific Business Forecasting Center, principal contributor to Delta Economic Sustainability Plan.