

MAJOR PROJECT EXPERIENCE

OFFSHORE ENGINEERING

Platform Grace, Santa Clara Unit, Santa Barbara Channel, California, for Standard Oil of California -As Senior Engineer for Dames & Moore, participated in preliminary site investigation, supervised final studies of seismic hazard, site stability and soil properties for soil-structure interaction analyses.

Platforms Ellen, Elly and Eureka, Beta Prospect, San Pedro Bay, California, for Shell Oil Company - Consultant to Shell staff on geotechnical and earthquake engineering aspects of project. Participated in site investigations, prepared site stability report and assisted in coordinating work of other geotechnical consultants.

Guyed Tower Feasibility Study, for Shell Oil Company - In association with PMB Systems Engineering, Inc., served as a consultant to Shell staff on feasibility study for a guyed tower offshore Southern California.

Platform Gina, Santa Barbara Channel, California, for Union Oil Company of California - Consultant to Union staff on pile capacities and stiffnesses and their modification under earthquake loadings. Provided input to INTRA analysis.

Platform Gilda, Santa Barbara Channel, California, for Union Oil Company of California - In association with PMB Systems Engineering, Inc., third party review of seismic design criteria and foundation engineering.

Platform Edith, San Pedro Bay, California, for Chevron USA - In association with McClelland Engineers, recommended seismic design criteria, coordinated site stability study and served as consultant on overall geotechnical studies.

Pitas Point Platform, Santa Barbara Channel, for Texaco - In association with PMB Systems Engineering, Inc., third part review of seismic design criteria and foundation engineering.

Chevron Mudslide Platform, South Pass Block 58, Gulf of Mexico - Third party review in association with PMB Systems Engineering, Inc.

Santa Ynez Unit, Santa Barbara Channel, for Exxon U.S.A. - Consultant to Exxon staff on planning of geotechnical site investigations for deep water platforms.

Platform Hermosa and Hidalgo, off Pt. Arguello, California, for Chevron USA - With McClelland Engineers, coordinator for seismic risk and site stability studies and consultant on overall geotechnical studies.

Jack-up Rig Sites, Offshore Southern California, for Shell Oil Company - Reviewed need for soil borings and site specific seismic studies for jack-up rigs.

Erawan, Satun and Platong Fields, Gulf of Thailand, for Union Oil Company of California - Consultant on pile capacities and driveability.

Evaluation of Potential for Liquefaction and Nonlinear Site Response Analyses, Vorwata VR-A Site and pipelines, Tangguh Project, Irian Jaya, for ABSG Consulting and British Petroleum.

Geotechnical Input to Spud Can Penetration and Seismic Studies of Maari Jackup Structure, Offshore New Zealand, for Digital Structures and Shell Oil Company.

Review of Geotechnical Aspects of Certification of Maleo Producer, Offshore Java, for ABS.

Site Response Analyses for the Banyu Urip Project, Offshore Java, for Exxon-Mobil.

Review of seismic hazard, site response, liquefaction and pile-soil interaction studies, Mahogany and Savonette Platforms, Offshore Trinidad, for BPTT.

Review of seismic hazard, site response, liquefaction and pile-soil interaction studies, Juniper Field, Offshore Trinidad, for BP America.