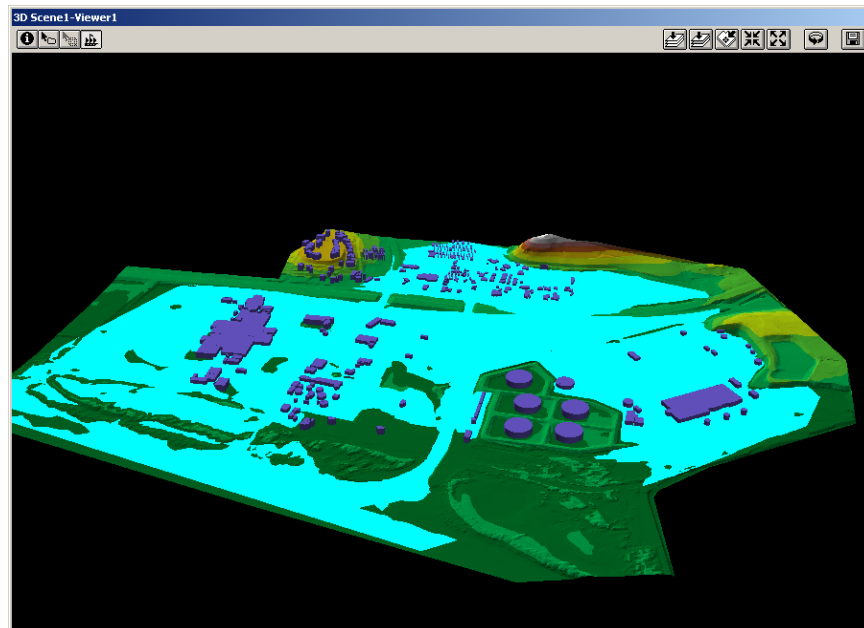




Morro Creek Flood Hazard Evaluation

The Morro Bay Power Project (MBPP) is located on the Central California Coast, within the City of Morro Bay, about 12 miles northwest of the City of San Luis Obispo. Duke Energy North America (DENA) proposes to construct two new 600 MW combined cycle generating units at MBPP. WEST Consultants, Inc. (WEST) was contracted by the Huffman-Broadway Group, Inc. to evaluate the flooding conditions along Morro Creek and to identify potential impacts of the proposed project on 100-year water surface elevations within and adjacent to the facility. Tasks conducted included field reconnaissance of the project site, collection and review of existing information, collection of additional topographic data and information, field survey of channel cross-sections, and hydraulic modeling. The analysis included applications of both one- and two-dimensional hydraulic models. Results of the one-dimensional (HEC-RAS) hydraulic modeling indicated the existence of significant flow splits from the Morro Creek channel. A two-dimensional analysis (FLO-2D) was used to refine the delineation of the floodplain, evaluate project impacts, and define required flood control measures. Results of the study were submitted to the California Energy Commission



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