

## DOCKETED

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<b>Project Title:</b>	Puente Power Project
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<b>Document Title:</b>	Information for the Puente Workshop on March 28, 2017
<b>Description:</b>	Email from Staff to Invited Agencies Regarding Topics of Discussion at the Workshop
<b>Filer:</b>	Marichka Haws
<b>Organization:</b>	California Energy Commission
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**Subject:** Information for the Puente Workshop on March 28, 2017 - Effects of Sea Level Rise  
**Date:** Wednesday, March 22, 2017 3:34:29 PM

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**To:** City of Oxnard  
Applicant (NRG)  
U.S. Geological Survey  
California Coastal Commission  
Coastal Conservancy  
Ocean Protection Council  
Energy Commission Research & Development Division Staff

**From:** Marylou Taylor – Engineering Office, California Energy Commission

**Subject:** Information for the Puente Workshop on March 28, 2017 - Effects of Sea Level Rise

The Committee for the proposed Puente Power Project (15-AFC-01) directed Energy Commission staff to supplement the evidentiary record. They have asked staff to conduct a workshop to discuss the best approach or approaches to assess the coastal flooding risk for the proposed Puente Power Project near the city of Oxnard, through 2050 using projected 2 feet of sea level rise. We have been asked to invite you, and hope you are able to participate in this workshop and contribute to the science and policy, either in person or via WebEx.

In order to facilitate the workshop, staff prepared some bullet-points to the discussions. Please let me know if you have questions or need clarification about the topics or the workshop.

#### City of Oxnard & USGS

Please prepare a presentation and be prepared to discuss the methods and model used to create the hazards mapping for Coastal Resilience Ventura and CoSMoS 3.0, respectively. Each presentation, no longer than 10 minutes, should specifically address the following list:

- Describe model results for coastal flooding risks at the project site due to a 100-year event in 2050 assuming 2 feet of sea level rise
- Describe the duration of the modeled 100-year event (both present-day and 2050) and the reasoning for this approach
- Assumptions when estimating shoreline erosion due to the 100-year event, how these assumptions affect flooding projections, and the reasoning for this approach
- Describe assumptions for sediment removal from the model domain
- Summarize how erosion and sedimentation is incorporated with the 100-year event to project flooding risk of the site
- Summarize the probabilities and uncertainties of model results, as well as validity of the model

#### Applicant (NRG)

In order for staff to assess impacts to power plant reliability, please prepare a summary document that describes:

- the minimum flooding (inundation depth and time duration) and/or wave impact that would result in Puente unable to operate, for example due to mechanical failure or worker safety;
- the maximum flow of storm water before the project's drainage system becomes overwhelmed and cannot perform as designed; and
- proposed facility features (e.g. construction on piles) and/or any operational activities that are intended to ensure the plant could operate reliably.

#### California Coastal Commission (CCC) staff

Staff has questions relating to topics included in the 30413(d) Report. If you are able to participate, we would like input about the following:

- Clarification on recommendation to apply methods to escalate FEMA flood maps to account for sea level rise.
- Examples of mitigation measures for beach and dune erosion that the CCC has approved for other projects and what thresholds were used for requiring mitigation.
- Examples of mitigation measures for protection from a 500-year flood event that CCC has approved for other projects and what thresholds were used for requiring mitigation.

### Coastal Conservancy

If you are able to participate, staff has questions relating to modeling results submitted in the Coastal Conservancy's letter dated Feb. 6, 2017 (Exhibit #3058). A figure is attached that shows up to 4 feet of flooding would occur at Mandalay Generating Station (MGS) from flows due to a 100-year event on the Santa Clara River, assuming existing levee conditions and no sea level rise. The letter further concluded that flood depths are expected to be deeper as a result of future sea level rise.

For your reference, the links below provide more information about the Committee Orders and the Public Workshop on March 28, 2017.

- Committee Orders for Additional Evidence and Briefing Following Evidentiary Hearings, dated March 10, 2017, TN#216505. [http://docketpublic.energy.ca.gov/PublicDocuments/15-AFC-01/TN216505\\_20170310T143017\\_Committee\\_Orders\\_for\\_Additional\\_Evidence\\_and\\_Briefing\\_Following.pdf](http://docketpublic.energy.ca.gov/PublicDocuments/15-AFC-01/TN216505_20170310T143017_Committee_Orders_for_Additional_Evidence_and_Briefing_Following.pdf)
- Notice of Public Workshop for March 28, 2017, TN#216595. [http://docketpublic.energy.ca.gov/PublicDocuments/15-AFC-01/TN216595\\_20170317T104146\\_Notice\\_of\\_Public\\_Workshop.pdf](http://docketpublic.energy.ca.gov/PublicDocuments/15-AFC-01/TN216595_20170317T104146_Notice_of_Public_Workshop.pdf)

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