

## DOCKETED

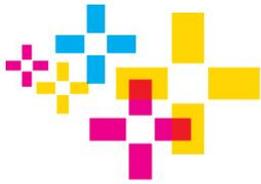
<b>Docket Number:</b>	15-AFC-01
<b>Project Title:</b>	Puente Power Project
<b>TN #:</b>	216784
<b>Document Title:</b>	Applicant's March 28, 2017 CEC Workshop Presentation
<b>Description:</b>	N/A
<b>Filer:</b>	Paul Kihm
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<b>Submitter Role:</b>	Applicant Representative
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<b>Docketed Date:</b>	4/3/2017

The logo for nrg, consisting of the lowercase letters "nrg" in a bold, black, sans-serif font, followed by a registered trademark symbol (®). To the right of the text is a colorful graphic of a cluster of squares and crosses in yellow, pink, and blue.

# Puente Power Project

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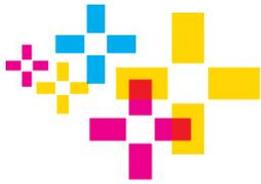
CEC Public Workshop  
March 28, 2017



# Questions

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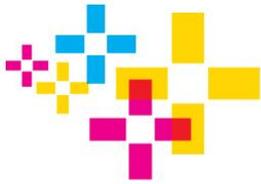
1. What is the minimum flooding (inundation depth and time duration) and/or wave impact that would result in Puente unable to operate, for example due to mechanical failure or worker safety?
2. *What is the maximum flow of storm water before the project's drainage system becomes overwhelmed and cannot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



# Applicant Response Q1

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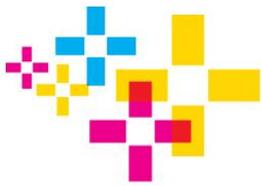
- Puente's storm water system will be designed to manage more than a 500-year storm without impact to operations
- Puente's storm water system will incorporate Mandalay facilities including site drainage, retention basins, and sumps
- Applicant's extensive coastal hazards/wave run-up analysis has indicated that inundation would not occur
- Irrespective of potential modeled flood scenarios (i.e., rain or inundation), Applicant does not show a scenario that could result in flood or wave impacts to Puente
- If standing water accumulated and storm water management systems were unable to temporarily manage water, Puente would operate with a water level of approximately 15 ft (i.e., 1.5 ft above finished grade of approximately 13.5 ft)



## Applicant Response Q2

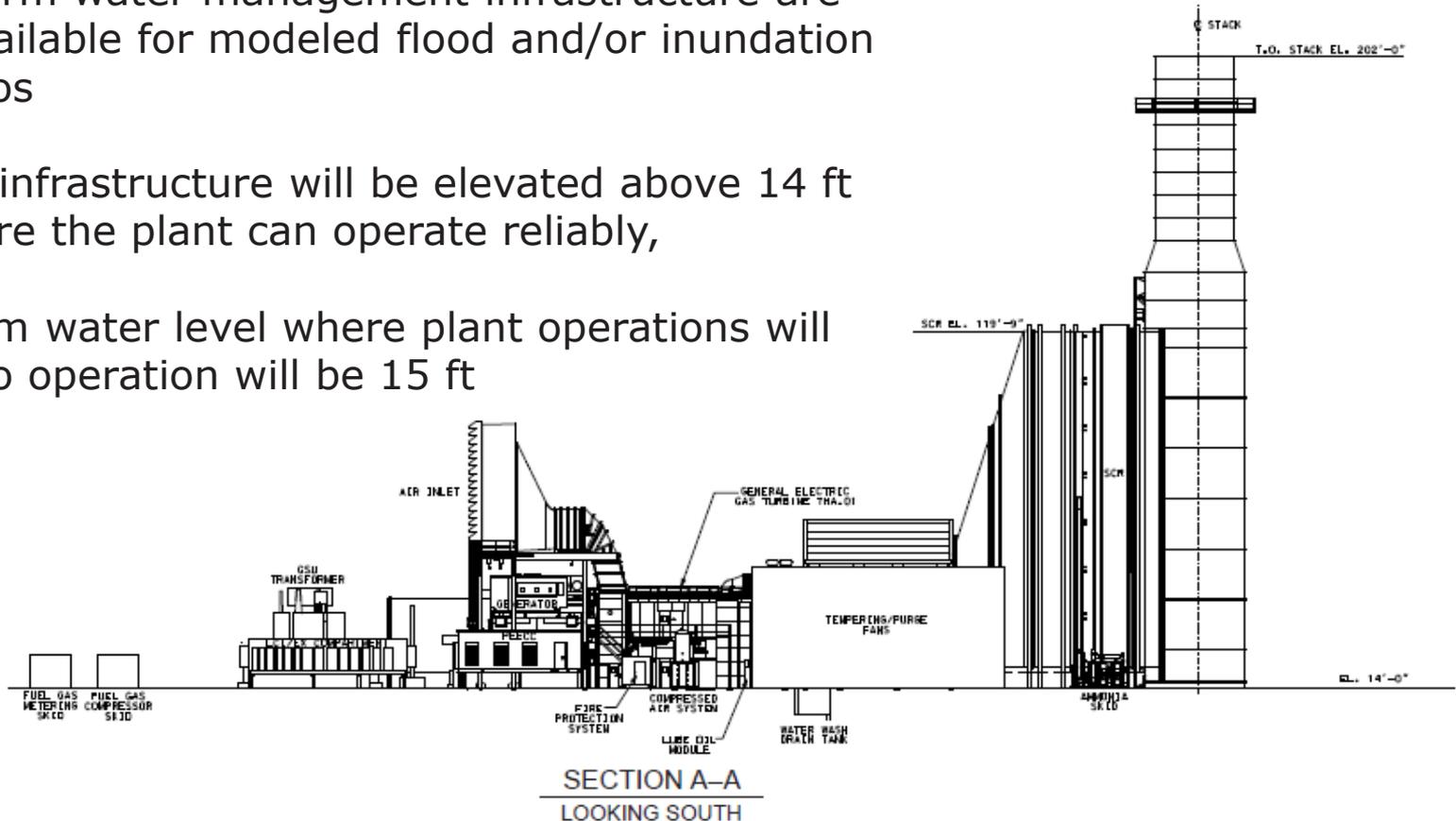
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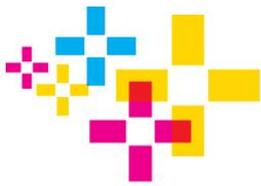
- Puente's storm water system will be designed to manage a maximum of 5,600 GPM of runoff, more than a 500-year storm event NOAA Atlas Data for Oxnard Airport is as follows:
  - ❖ 25-year rainfall event is 4.89 inches in 24 hours – 1844 GPM
  - ❖ 100-year rainfall event is 5.93 inches in 24 hours – 2172 GPM
  - ❖ 500-year rainfall event is 7.04 inches in 24 hours - 2650 GPM
- As designed, the storm water system is not anticipated to become overwhelmed



# Applicant Response Q3

- Puente will be engineered and graded to move water away from all critical infrastructure.
- Operations and Maintenance practices will ensure that storm water management infrastructure are fully available for modeled flood and/or inundation scenarios
- Critical infrastructure will be elevated above 14 ft to ensure the plant can operate reliably,
- Minimum water level where plant operations will cease to operation will be 15 ft





# Applicant Response Q3

- Gas Turbine features:
  - ❖ Gas Turbine and auxiliary equipment foundations will be at 14 ft
  - ❖ Lowest critical component (15 ft) is an electronic instrument cabinet for gas valve control;
  - ❖ All other critical electrical equipment will be above 15.5 ft
  - ❖ Gas turbine bottom (16 ft), will be supported by a 2-foot steel support structure

- Power Distribution Center will be elevated 5 to 8 feet above grade (i.e., ~19 to 22 ft) to allow for bottom entry of electrical control cables.

- Other Features:

- ❖ Ammonia Tank, Generator Step-Up Transformer and Auxiliary Transformer containments will be at a minimum of 15.5 ft
- ❖ Storm water and waste water basins will be at elevation 17 ft
- ❖ Air inlet to the Gas Turbine will be elevated above the generator

