

February 6, 2015

Independent Scientific and Technical Review Panel (ISTAP) Meeting – Phase 2 Review of Subsurface Intake Feasibility for the proposed Poseidon Desalination Facility, February 18, 2015, 10:00 am – 1:15 pm, Huntington Beach Central Library, Talbert Room, 7111 Talbert Ave, Huntington Beach, CA 92648

Dear Interested Party,

As part of its review of a permit application from Poseidon Resources to construct and operate a desalination facility in Huntington Beach, the California Coastal Commission recommended that Poseidon undertake a more complete independent analysis of intake alternatives. Due to concerns over impacts on the coastal environment and marine ecosystems [Coastal Act Sections 30230 and 30231 in particular], the Commission recommended that Poseidon examine in more detail the feasibility of subsurface intakes.

In order to establish a review process that is responsive to the Commission's guidance and appropriately engages Poseidon, Commission staff and Poseidon have agreed to convene an Expert Panel that will conduct an independent scientific review.

In Phase 1, for which the final Report can be found on the Coastal Commission website (http://coastal.ca.gov/pdf/ISTAP_Final_Phase1_Report_10-9-14.pdf), the ISTAP examined the technical feasibility of a variety of alternate subsurface intake technologies for a proposed Desalination facility at Huntington Beach. Two potential alternate technologies were identified as feasible: the Seafloor Infiltration Gallery (SIG) and the Beach Infiltration Gallery. At the end of the Phase 1 Stakeholders responded to an invitation to submit recommendations for the Phase 2 scope of work.

A Phase 2 ISTAP has been organized by the conveners and it includes:

- Three former Phase 1 Panelists:
 - Robert Bittner, Dr. Michael Kavanaugh, Dr. Tom Missimer
- They are joined by new Panelists:
 - Dr. Larry Dale, Scientist and environmental economist at Lawrence Berkeley National Laboratory;
 - Janet Clements, Senior Economist at Stratus Consulting; and
 - Susan Lee, Vice President, San Francisco Operations, Aspen Environmental Group

You are invited to the Phase 2 Panel's meeting, to be held in Huntington Beach at 10 am on Wednesday, February 18, 2015. Details are provided below.

Nature of the Review Process: The Panel's independent review will provide advice to the Commission staff; staff will in turn use the results of the Panel's review to make their recommendation to the Commission. The Panel's final reports will be part of the Commission's record for Poseidon's permit application.

Commission staff and Poseidon characterize this as a joint fact-finding process intended to illuminate technical issues and inform the eventual permit review decision by the Commission. All panelists have been jointly selected, by mutual agreement by Commission staff and Poseidon. Panelists include experts in engineering, subsurface intake design, geology, geochemistry, resource and environmental economics, environmental review, and hydrogeology. Both Poseidon and the Commission agreed to engage CONCUR, Inc. as the convener and facilitator of this process. CONCUR has extensive experience in convening processes of this kind and in marine and coastal resource management issues both in California and nationally.

Charge to the Panel: The independent review is structured into a series of Phases. The task in Phase 1 was to examine the Technical Feasibility of subsurface intakes at and near the proposed site at Huntington Beach. The Panel report was presented to the public in September 2014.

The task in Phase 2 is to characterize the technically feasible subsurface intakes identified in Phase 1 relative to a broader range of evaluation criteria, as recommended by the parties and determined by the Panel, such as size, scale, cost, energy use, and characteristics related to site requirements and environmental concerns consistent with the Coastal Act's definition of feasible, and as compared to the proposed open intake. The Panel would prepare a report at the end of this Phase. The objectives for Phase 2 are:

- Investigate whether offshore and beach infiltration galleries could be a feasible method to provide water to Poseidon's proposed desalination facility at or near the Huntington Beach site.
- Investigate at what scale those intake methods could feasibly be sited and operated at or near the Huntington Beach site.

Format and topics for the February 18 Meeting: The meeting will include an introduction of the Panel and the Panel's process, briefings by both Commission staff and Poseidon on the Panel's role and the proposed project, presentations from the Panel on their proposed framework for the Phase 2 process including the technologies and scales to be examined, the proposed lifecycle for analysis, and the proposed analytic methodology. The meeting will also consider additional information the Panel needs to complete its review. The meeting is open to members of public as observers, and a public comment period is included in the agenda. A draft agenda is attached.

Additional supporting materials will be uploaded to the Coastal Commission website by Friday, February 13. These documents will provide preliminary recommendations from the Panel on the methods, approaches, and analyses it expects to use during its review. The Panel and Conveners welcome public comment on these documents.

We hope you are able to attend and participate. Please direct any questions to CONCUR, Inc.

Sincerely,
Scott McCreary, Ph.D., Principal
CONCUR, Inc.
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**DRAFT AGENDA CCC-Poseidon Independent Scientific and Technical Review
Phase 2 Public Meeting**

Huntington Beach Central Library
Talbert Room
7111 Talbert Ave.
Huntington Beach, CA
FEBRUARY 18, 2015 – 10:00 AM – 1:15 PM

Wednesday, February 18, 2015

10:00 – 10:15 am	Welcome <ul style="list-style-type: none"> • Introductions • Agenda and Objectives Review <ul style="list-style-type: none"> – <i>The objectives of this meeting are to present the Panel's proposed framework for its Phase 2 analysis and to receive public clarifying questions and comments</i> • Ground Rules and Protocols • Stakeholder comments on Phase 2 • Panel Charge <i>(Scott McCreary)</i>
10:15 – 10:20 am	Panelist Introductions
10:20 – 10:25 am	Impetus for the Review: the Role of the ISTAP in Support of Coastal Commission Permit Review Process and the Poseidon Huntington Beach Desalination Project <i>(Tom Luster, CCC, and Stan Williams, Poseidon)</i>
10:25 – 11:00 am	Proposed Framework for Phase 2 Analysis <ul style="list-style-type: none"> • Alternatives to be investigated • Technologies to be investigated • Project scales to be investigated • Time frame for analysis • Analytical methods to be used • Data and information requests from Panel <i>(Panel members)</i>
11:00 – 11:15 am	Break
11:15 – 11:45 am	Proposed Framework for Phase 2 Analysis (Cont'd)
11:45 am – 12:45 pm	Public Comments and Clarifying Questions
12:45 – 1:00 pm	Final Reflections from Conveners and Panel
1:00 – 1:15 pm	Next Steps
1:15 pm	Adjourn