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Docket Number:	12-AFC-02C
Project Title:	Huntington Beach Energy Project - Compliance
TN #:	214182
Document Title:	Declaration of Matt Franck in Support of Project Owner's Opening Testimony
Description:	Declaration of Matt Franck in Support of Project Owner's Opening Testimony (Water Resources)
Filer:	Kimberly Hellwig
Organization:	Stoel Rives LLP
Submitter Role:	Applicant
Submission Date:	10/26/2016 1:14:24 PM
Docketed Date:	10/26/2016

Declaration of
MATT FRANCK
Huntington Beach Energy Project
(12-AFC-02C)

I, **Matt Franck**, declare as follows:

1. I am presently employed by CH2M Hill, Inc., under contract with AES Huntington Beach Energy, LLC to provide environmental consulting services for the Huntington Beach Energy Project ("HBEP").

2. A copy of my professional qualifications and experience is attached hereto as **Attachment A** and incorporated by reference herein.

3. I prepared or caused to be prepared information related to **Soil & Water Resources** and other general topics, as identified below, in support of the Petition to Amend for HBEP. Such information was either provided by me to consultants for incorporation of such data into documents or was based on my independent analysis of data from reliable documents and sources, as well as my professional experience and knowledge. Specifically, I prepared or caused to be prepared the following:

    a. Petition to Amend, Section 5.11 (Soil & Water Resources) (TN# 206087), docketed September 9, 2015
    b. Letter Regarding Response to Conservancy (TN# 211411), docketed May 9, 2016
    c. Project Owner's Comments on the Preliminary Staff Assessment (TN# 212379), docketed July 21, 2016
    d. Opening Testimony in Support of Soil & Water Resources (TN# TBD) (docketed with Project Owner's Opening Testimony on October 27, 2016)

4. It is my professional opinion that the information provided to the California Energy Commission related to the HBEP's Petition to Amend proceeding is valid and accurate with respect to the issues addressed herein.

5. I am personally familiar with the facts and conclusions related in the testimony presented by me and, if called as a witness, could testify competently thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge and belief.

Dated: 10/25/2016

Matt Franck

Matthew Franck

Environmental Planner

Education

B.S., Environmental Policy Analysis and Planning, University of California at Davis, 1989

Relevant Experience

Environmental planner with CH2M HILL with 23 years of experience managing and writing environmental impact assessment documents that comply compliance with NEPA and CEQA. Coordinates local, state, and federal regulatory processes. Combined education, multidisciplinary experience, and land use and resource planning expertise provide a solid background for evaluating complex environmental policy issues.

Representative Projects

Water Resources Task Manager; Application for Certification; Huntington Beach Energy Project; AES Southland Development LLC; Huntington Beach, CA. Managed the preparation of the water resources section of an AFC for a 1,185-MW combined cycle repower of the existing Huntington Beach Generating Station located in Huntington Beach, CA. The existing facility uses once-through ocean water cooling, which must be eliminated consistent with existing California regulations. For this reason, the new project required evaluation of an entirely different water balance, including municipal sources for evaporative cooling and NOx control, discharge of industrial process water to the Pacific Ocean (undiluted by ocean cooling water), and potable supply and domestic wastewater discharges to the City of Huntington Beach. The project also required an evaluation of water supply alternatives, including advanced wastewater treatment and conveyance.

Water Resources Task Manager; Application for Certification; Alamitos Energy Center; AES Southland Development LLC; Long Beach, CA. Managed the preparation of the water resources section of an AFC for a 1,950-MW combined cycle repower of the existing Alamitos Beach Generating Station located in Long Beach, CA. The existing facility uses once-through ocean water cooling, which must be eliminated consistent with existing California regulations. For this reason, the new project required evaluation of an entirely different water balance, including municipal sources for evaporative cooling and NOx control, and discharge of domestic and industrial wastewater to the City of Long Beach. The project also required an evaluation of water supply alternatives, including advanced wastewater treatment and conveyance.

Water Resources Task Manager; Application for Certification; Redondo Beach Energy Project; AES Southland Development LLC; Redondo Beach, CA. Managed the preparation of the water resources section of an AFC for a 546-MW combined cycle repower of the existing Redondo Beach Generating Station located in Redondo Beach, CA. The existing facility uses once-through ocean water cooling, which must be eliminated consistent with existing California regulations. For this reason, the new project required evaluation of an entirely different water balance, including municipal sources for evaporative cooling and NOx control, discharge of industrial process water to the Pacific Ocean (undiluted by ocean cooling water), and potable supply and domestic wastewater discharges to the City of Redondo Beach. The project also required an evaluation of water supply alternatives, including advanced wastewater treatment and conveyance.

Water Resources Task Manager; Humboldt Bay Repowering Project; Pacific Gas and Electric, Company; Eureka, CA. Prepared Water Resources analysis for a project to repower the existing Humboldt Bay Power Plant south of Eureka, CA, using ten natural gas powered reciprocating engine generators. Key water resources issues of concern included stormwater quality to an extended detention basin, process wastewater discharges to a municipal system, and the decrease in lagoon flows because of reduced use of the existing once-through cooling system.

Water Resources Senior Technical Reviewer; Ivanpah Solar Electric Generating System; Bright Source Energy, Inc.; Mojave Desert, CA. Assisted in the preparation of a Water Resources analysis as a Senior Technical Reviewer. The project included constructing a concentrated solar thermal facility on 1,843 acres of land in the Mojave Desert. Key water resources issues of concern were availability of groundwater for the thermal facility and the disturbance to hydrology from the large construction site.

Water Resources Task Manager; Carlsbad Energy Center Project; NRG, Inc.; Carlsbad, CA. Prepared Water Resources analysis for a project to repower the existing Encina Power Station in Carlsbad, CA, using natural gas turbines. The project involved the use of reclaimed water from the nearby wastewater treatment plant, with an alternative source to use desalinated seawater. Key issues included marine impacts from seawater intake, brine disposal, and the capacity of the existing reclaimed water distribution system.

Water Resources Task Manager; Eastshore Energy Project; Tierra Energy, Inc.; Hayward, CA. Prepared Water Resources analysis for a new natural gas power plant in Hayward, CA, using 14 reciprocating engine generators. Key water resources issues of concern included the development of structural features for onsite stormwater quality control, and process wastewater discharges to a municipal system.

Water Resources Task Manager; Application for Certification for San Francisco Electric Reliability Project; Public Utilities District for the City and County of San Francisco, CA. Prepared the Water Resources section of an Application for Certification, a California Energy Commission process that is functionally equivalent to CEQA. The CEQA-equivalent evaluation focused on water, wastewater, and stormwater generation and was used by the proposed facility in the context of Citywide compliance with the federal Clean Water Act and state Porter-Cologne Water Quality Control Act. Work efforts included testimony at evidentiary hearings.

Water Resources Task Manager; Vernon Power Plant; City of Vernon, CA. Prepared Water Resources analysis for a new natural gas power plant in Vernon, CA, using three gas-fired turbines and one steam turbine. The project would redevelop an existing industrial site in this highly industrial community. Key water resources issues of concern included calculating drainage credits based on changes to the existing site drainage patterns, stormwater quality control during construction and operation, availability of recycled water, and the quantity and quality of wastewater discharges.

Water Resources Task Manager; Westley-Marshall Substantion and Transmission Line Project; Turlock Irrigation District; Stanislaus County, CA. Prepared Water Resources analysis for an approximate 12-mile transmission line project in rural Stanislaus County, CA. The project also involved nine potential substation sites. Key water resources issues of concern included floodplain risks and stormwater quality control during construction.

Task Manager; South Bay Replacement Project; LS Power Generation, LLC.; Chula Vista, CA. Task Manager for Water Resources. Prepared Water Resources analysis for a project to repower the existing South Bay Power Plant in Chula Vista, California, using two natural gas turbines and one steam turbine. The project resulted in the abandonment of the existing once-through cooling system used at the power plant. Key water resources issues of concern included stormwater quality during construction, plant operations, and wastewater discharges (quantity and quality).

Senior Technical Reviewer; Chula Vista Energy Upgrade Project; MMC Energy, Inc.; Chula Vista, CA. Senior Technical Reviewer for Water Resources. Assisted in the preparation of a Water Resources analysis. Project replaced existing units with two newer, more efficient natural gas turbines. Efforts included testimony at evidentiary hearings.

Task Manager; Applications for Certification for Walnut Creek Energy Park and Sun Valley Energy Project; Edison Mission Energy; City of Industry/Romoland, CA. Provided support for two Applications for Certification before the California Energy Commission for similarly designed 500-MW natural gas-fired peaking power plants, using the GE LMS100 advanced gas turbine technology.