

DOCKETED

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Project Title:	Huntington Beach Energy Project - Compliance
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Document Title:	Declaration of James Verhoff in Support of Project Owner's Opening Testimony
Description:	Declaration of James Verhoff in Support of Project Owner's Opening Testimony (Paleontological Resources)
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**Declaration of
JAMES VERHOFF
Huntington Beach Energy Project
(12-AFC-02C)**

I, **James Verhoff**, 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 **Paleontological 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 5.8 (Paleontological Resources) (TN# 206087), docketed September 9, 2015

In addition, I have reviewed the sections of the following relevant to paleontological resources:

- b. Project Owner's Comments on the Preliminary Staff Assessment (TN# 212379), docketed July 21, 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: 10/19/2016



James Verhoff

James Verhoff

Paleontologist

Education

B.S., Geology (specialization in Paleobiology), Bowling Green State University, 2006
Paleontology graduate work, Kent State University, 2006 to 2008

Professional Registrations

- Sigma Gamma Epsilon
- Geological Society of America

Distinguishing Qualifications

- Site Safety Coordinator-trained
- OSHA 40-hour Hazardous Waste Operations and Emergency Response-trained
- OSHA 10-hour Construction Safety-trained
- Training in paleontology

Relevant Experience

James Verhoff is a Staff Paleontologist with CH2M HILL. He earned his Bachelor's Degree in Geology, specializing in Paleobiology, at Bowling Green State University, and did graduate work at Kent State University. While at Kent State he assisted in field surveys in Ohio, Romania, and Austria, as well as obtaining a strong background in stratigraphy through coursework at both institutions. With CH2M HILL he has served as the project paleontologist for projects in California and Nevada. He has developed paleontological inventory reviews and paleontological monitoring and treatment plans, which complied with NEPA, CEQA, and where appropriate the requirements of the California Energy Commission and BLM, for NODOS, Devers-Palo Verde 2, the California High Speed Rail, and a number of wind and solar power plants, as well as assisting with other projects in both California and Nevada. He has conducted paleontological surveys in Riverside and Los Angeles Counties, and acted as paleontological monitor for a number of construction projects. Representative Projects

Representative Projects and Dates of Involvement

Lead Paleontologist; Devers-Palo Verde Line 2; Riverside County, California. Performed the paleontological resources literature review and records search, conducted the field reconnaissance, survey of paleontologically sensitive formations, and prepared the Paleontological Monitoring and Treatment Plan for the construction of a 500 kV transmission line and associated facilities.

Paleontological Field Director; Alta East Wind Project; Alta East Windpower Development, LLC; Kern County, California. Assisted in writing the Paleontological Resources Technical Memorandum, including performing the literature and records review for paleontological resources, and assisted with U.S. Bureau of Land Management permitting of this project. Supervised the implementation of the PRMMP and on-site paleontology monitoring activities, including microfossil sampling, staffing, and client communications. Wrote the final Paleontological Resources Report for this project.

Paleontological Field Director; Rising Tree Wind Project; Kern County, California. Assisted in writing the Paleontological Resources Technical Memorandum, including performing the literature and records review for paleontological resources, and assisted with U.S. Bureau of Land Management permitting of this project. Supervised the implementation of the PRMMP and on-site paleontology monitoring activities, including microfossil sampling, staffing, and client communications. Wrote the final Paleontological Resources Report for this project.

James Verhoff

Staff Paleontologist, Hidden Hills Solar Energy Generation Station and Utility Corridor, BrightSource Energy, Inyo County, California and Clark and Nye Counties, Nevada. Wrote the Paleontological Resources Technical Memorandum, which outlined the records and literature review for paleontological resources, for the solar power plant and performed reconnaissance-level field surveys, as per BLM requirements, of both the solar power plant and the utility corridor.

Staff Member; TGP Northern Nevada Powerline Alternatives; Clark and Nye County, Nevada. Performed the paleontological records literature review and records search, and assisted in writing the subsequent Paleontological Resource Assessment Technical Memorandum.

Staff Member; California High Speed Train; California High Speed Rail Authority; California. Performed the paleontological resource literature review and wrote and assisted in editing the Paleontological Resources Technical Plan for the construction of the California High Speed Rail.

Staff Member; Russell City Energy Center Project; Russell City Energy Center; California. Performed the paleontological records review and wrote first draft of the Paleontological Resource Monitoring and Mitigation Plan.

Staff Member; NODOS Reservoir Project; Department of Water Resources; California. Performed the paleontological resource literature review and wrote and assisted in editing the Paleontological Resource Monitoring and Mitigation Plan and EIR for the construction of a new reservoir and related facilities.

Staff Member; GWF Henrietta Solar PV Project; GWF Power Systems; Kings County, California. Performed the paleontological resources literature review and wrote the Paleontological Resource Monitoring and Mitigation Plan, and pre-construction survey of the site.

Task Lead; Santa Susan Flight Laboratory; NASA; Ventura County, California. Tasked with coordinating the requirements for completing the paleontology portion of the EIS (still in production). This included a literature and records review, as well as ensuring the task remained on time and within budget. This work is ongoing.

Staff Member; Almond 2 Power Project; PG&E; California. Assisted in writing the Paleontological Monitoring and Mitigation Plan. Also acted as Paleontological Resources Monitor, which included collecting paleontological resources and reporting the find.

Field Team Lead; Keesler Air Force Base Groundwater Survey; Keesler Air Force Base; Biloxi, Mississippi. Was in charge of a four-person team responsible for completing site-wide ground water sampling, and performed a benthic faunal survey in the near-by waterway. This included being responsible for coordination with Air Force personnel and facilities.

Field Team Lead; Master Cleaner's Groundwater Survey; Master Cleaner's Dry Cleaners; Mobile, Alabama. Was in charge of a four-person team responsible for soil sampling, site characterization, and plume delineation, and assisted in writing the proposed remediation plan. This survey was conducted with a DPT-technology equipped GeoProbe drill rig.

Field Team Lead; NASA groundwater survey; Marshal Space Flight Center; NASA; Huntsville, Alabama. Included surface and subsurface soil sampling, groundwater and surface water sampling, and sediment sampling, including multiple well types, soil surveys conducted with hand augers and DPT-equipped GeoProbe drill rigs, and sampling springs. This work also required awareness of UXO and other similar hazards. This work also includes management of multiple teams during large field efforts in potentially hazardous areas.

Field Team Member; AFP6 Groundwater Survey, Air Force Plant 6; United States Air Force; Marietta, Georgia. Assisted in sitewide groundwater sampling.

Field Team Member; Walder Coke Soil Survey; Walder Coke; Birmingham, Alabama. Included off-site surface soil sampling.