

HC-16



**Pacific Gas
and
Electric
Company**

M. Trumbly
Cultural Resources Specialist
Environmental Services

Mailing Address
5555 Florin Perkins, Room 137
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July 15, 2008

Larry Meyers, Executive Secretary
Native American Heritage Commission
915 Capitol Mall, Room 364
Sacramento, Ca 95814
(916) 657-5390 - FAX

**RE: Diablo Canyon Power Plant (DCPP)
License Renewal Feasibility Study**

Dear Mr. Meyers:

Pacific Gas and Electric Company (PG&E) is conducting a License Renewal Feasibility Study to determine if it is feasible to renew the Diablo Canyon Power Plant operating licenses. The purpose of this letter is to request a search of the NAHC's sacred lands file and a list of local Native Americans with an interest in this area. Any information you can provide for this project area would be helpful.

The current operating licenses expire in 2024 and 2025 for Units 1 and 2, respectively. If PG&E decides to pursue license renewal, based on the results of this feasibility study, the operating license would extend for an additional 20 years to 2044 and 2045. The decision to pursue license renewal has not yet been made.

As part of the license renewal process, NRC requires potential applicants to "assess whether any historic or archaeological properties will be affected by the proposed project." NRC may also request an informal consultation with your office at a later date under Section 106 of the National Historic Preservation Act of 1966, as amended (16 USC 470), and under Federal Advisory Council on Historic Preservation regulations (36 CFR 800). By contacting you during the feasibility study, we hope to identify any issues that need to be addressed or provide any information your office may need to expedite the potential NRC consultation.

Diablo Canyon Power Plant (DCPP) is located within the PG&E owner-controlled area, which consists of approximately 760 acres of land located in San Luis Obispo County, adjacent to the Pacific Ocean and roughly equidistant from San Francisco and Los Angeles. It is located directly southeast of Montana de Oro State Park and is approximately 12 miles southwest of the city of San Luis Obispo, the county seat and the nearest significant population center (Figure 1). The DCPP is located on the Port San Luis, Ca 7.5' USGS Quadrangle in the unsectioned area of Canada De Los Osos Y Pecho Y Islay Land Grant in Township 31 South, Range 10 East.

Three transmission lines connect the power plant to the regional grid, and are thus relevant to the License Renewal Feasibility Study (Figure 3.1-2). They include:

- Diablo-Mesa – One double-circuit line was connected to an existing Morro Bay-Mesa line 10.25 miles from DCPD with an 80-ft. right-of-way width.
- Diablo-Gates – One single-circuit line was connected to the Gates Substation in Fresno County 79 miles northeast of DCPD with a 350-ft. right-of-way width.
- Diablo Midway #2 and 3 – Two single-circuit lines were connected to the Midway Substation in Kern County 84 miles southeast of DCPD with a combined right-of-way width of 400 ft.

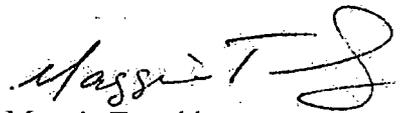
In total, there are approximately 170 miles of corridor that occupy approximately 4,500 acres. The corridors pass primarily through foothills and rolling land. In addition, there are parcels of land that are agricultural and forest land. In addition to an overview map (Figure 2.1), a table has been created providing location data for each transmission line (Figure 3).

PG&E does not expect continued DCPD operations to adversely affect cultural resources in the APE, as PG&E has no plans to alter current operations or disturb any land for the proposed project. No construction along any of the transmission lines is planned. Maintenance on the transmission lines would continue as currently performed.

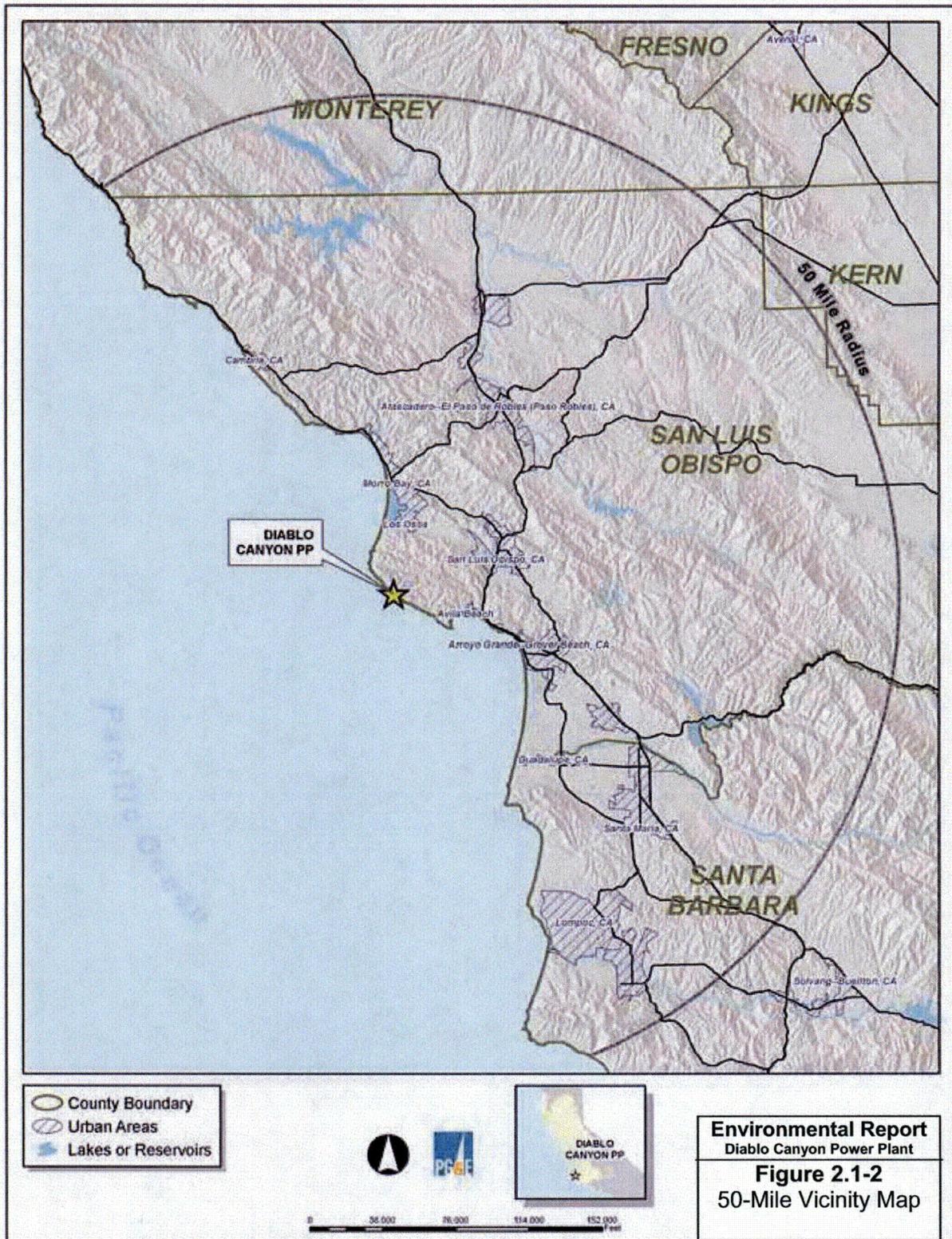
If you have any questions or concerns regarding this project please feel free to call me (916) 201-8571. After your review, we would appreciate your input detailing any concerns you may have about cultural resources in the current APE.

Thank you for taking the time to review this project.

Best Regards,



Maggie Trumbly
Cultural Resource Specialist
Enclosure (2 Maps and a Table)



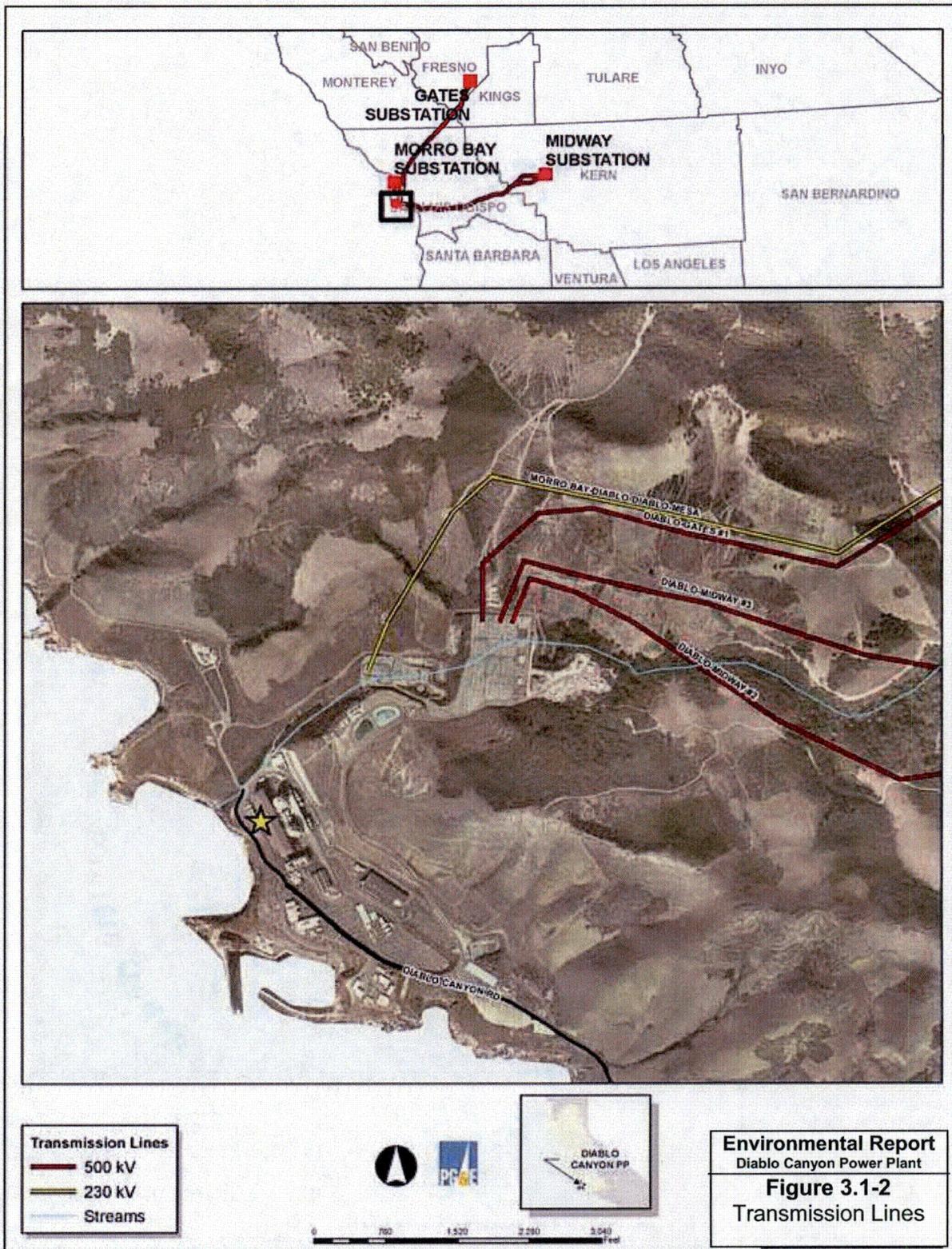


FIGURE 3: TRANSMISSION LINE LOCATIONAL DATA

Transmission Line	County(ies)	USGS 7.5' Quadrangle	Township and Range
Diablo to Mesa	San Luis Obispo County	Port San Luis and Morro Bay South	T31S R10E; T31S R11E; and T30S R11E
Diablo To Gates	San Luis Obispo, Monterey, Kings and Fresno Counties	Port San Luis, Morro Bay South, Morro Bay North, Atascadero, Templeton, Estrella, Shanodon, Cholame Hills, Cholame Valley, The Dark Hole, Garza Peak, Avenal, and Gujarral Hills	T20S R17E; T21S R17E; T22S, R17E; T22S R16E; T23S R16E; T23S R15E; T24S R15E; T24S R14E; T25S R14E; T25S R13E; T26S R13E; T27S R12E; T28S R12E; T28S R11E; T29S R11E; T30S R11E; T31S R11E; T31S R10E
Diablo to Midway	San Luis Obispo and Kern Counties	Port San Luis, Pismo Beach, Arroyo Grande NE, Tar Springs Ridge, Cadwell Mesa, Los Machos Hills, Branch Mountain, Chimineas Ranch, Simmler, McKittrick Summit, Reward, Bell Ridge, West Elk Hills, Lokern, and Buttonwillow	T29S R23E; T29S R22E; T30S R22E; T29S R21E; T30S R21E; T30S R20E; T31S R20E; T31S R19E; T31S R18E; T31S R17E; T31S R16E; T32S R15E; T32S R14E; T32S R13E; T31S R12E; T31S R11E; T31S R10E



Arnold Schwarzenegger, Governor

NATIVE AMERICAN HERITAGE COMMISSION

915 CAPITOL MALL, ROOM 364
 SACRAMENTO, CA 95814
 (916) 653-4092
 (916) 657-5390 - Fax



July 18, 2008

Maggie Trumbly
 Pacific Gas and Electric Company
 5565 Florin Perkins, Room 137
 Sacramento, CA 95826

Sent by Fax: 916-386-5425
 Number of Pages: 3

RE: Proposed Diablo Canyon Power Plant (DCPP) License Renewal Feasibility Study; San Luis Obispo County.

Dear Ms. Trumbly:

A record search of the Sacred Lands File indicates the presence of Native American cultural resources that may be impacted by one of your project. See information below:

Site Name	County	Quad.	T	R	Sec	Site No.	Contact
Port San Luis	San Luis Obispo	Port San Luis	31S	11E	23		Bertha Bisbee Indian Center of Santa Barbara, 808 E. Cota St. Santa Barbara 93101 805-963-8968
Sunset Palisades	As Above	Pismo Beach				CA-SLO-801	Mark Vigil SLOCCC 1030 Ritchie Road Grover Beach 93433 805-481-2461
Avila Beach Tank Farm	As Above	As Above					As above
Point Buchon	As Above	Morro Bay South					As above
Fuel Storage Tank Farm.	As Above	Morro Bay North				CA-SLO-16	Patti Dunton 377 Fairview Morro Bay 93442 805-462-0893
House Floor	As Above	As Above				CA-SLO-239	As Above
Toro Creek Headwaters Cemetery	As Above	As Above	28S	11E			R. Gibson P.O. Box 102 Paso Robles 93446

The presence or absence of specific site information in the Sacred Lands File does not indicate the absence of other cultural resources in any project area. Other sources of information regarding cultural resources in your project area should also be contacted for information regarding known and recorded sites. I suggest you consult with all of those on the accompanying Native American Contacts list, if they cannot supply information, they might recommend others with specific knowledge about cultural resources in your project area. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 653-4040.

Sincerely,



Katy Sanchez
Program Analyst

Native American Contacts
San Luis Obispo County
July 18, 2008

Santa Ynez Band of Mission Indians
Vincent Armenta, Chairperson
 P.O. Box 517 Chumash
 Santa Ynez , CA 93460
 varmenta@santaynezchumash.org
 (805) 688-7997
 (805) 686-9578 Fax

San Luis Obispo County Chumash Council
Chief Mark Steven Vigil
 1030 Ritchie Road Chumash
 Grover Beach , CA 93433
 cheifmvgil@fix.net
 (805) 481-2461
 (805) 474-4729 - Fax

Pullulaw Khus
 2001 San Bernardo Creek Chumash
 Morro Bay , CA 93442

Salinan Tribe of Monterey, San Luis Obispo and San Benito Counties
John W. Burch, Traditional Chairperson
 8315 Morro Rd, #202 Salinan
 Atascadero , CA 93422
 salinantribe@aol.com
 805-460-9202
 805 235-2730 Cell
 805-460-9204

Julie Lynn Tumamait
 365 North Poli Ave Chumash
 Ojai , CA 93023
 jtumamait@sbcglobal.net
 (805) 646-6214

Santa Ynez Tribal Elders Council
Adelina Alva-Padilla, Chair Woman
 P.O. Box 365 Chumash
 Santa Ynez , CA 93460
 elders@santaynezchumash.org
 (805) 688-8446
 (805) 693-1768 FAX

Lei Lynn Odom
 1339 24th Street Chumash
 Oceano , CA 93445
 (805) 489-5390

Mona Olivas Tucker
 660 Camino Del Rey Chumash
 Arroyo Grande , CA 93420
 (805) 489-1052 Home
 (805) 748-2121 Cell

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Diablo Canyon Power Plant (DCPP) License Renewal Feasibility Study; San Luis Obispo County.

Native American Contacts
San Luis Obispo County
July 18, 2008

Matthew Darian Goldman
660 Camino Del Rey Chumash
Arroyo Grande , CA 93420
(805) 550-0461 Home

Santa Ynez Band of Mission Indians
Sam Cohen, Tribal Administrator
P.O. Box 517 Chumash
Santa Ynez , CA 93460
(805) 688-7997
(805) 686-9578 Fax

Salinan-Chumash Nation
Xielolixii
3901 Q Street, Suite 31B Salinan
Bakersfield , CA 93301 Chumash
xielolixii@yahoo.com
661-864-1295
408-966-8807 - cell

Northern Chumash Tribal Council
Fred Collins, Spokesperson
1177 Marsh Street, Suite 110 Chumash
San Luis Obispo , CA 93401
(805) 801-0347 (Cell)

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Fax:: 916-386-5425
Email: MNT7@pge.com

May 22, 2009

Santa Ynez Band of Mission Indians
Vincent Armenta, Chairperson
PO Box 517
Santa Ynez, Ca 93460

**RE: Diablo Canyon Power Plant (DCPP)
License Renewal Feasibility Study**

Dear Mr. Armenta:

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The current operating licenses expire in 2024 and 2025 for Units 1 and 2, respectively. If PG&E decides to pursue license renewal, based on the results of this feasibility study, the operating license would extend for an additional 20 years to 2044 and 2045. The decision to pursue license renewal has not yet been made.

As part of the license renewal process, NRC requires potential applicants to "assess whether any historic or archaeological properties will be affected by the proposed project." NRC may also request an informal consultation with you at a later date under Section 106 of the National Historic Preservation Act of 1966, as amended (16 USC 470), and under Federal Advisory Council on Historic Preservation regulations (36 CFR 800). By contacting you during the feasibility study, we hope to identify any issues that need to be addressed or provide any information that you may need to expedite the potential NRC consultation.

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In total, there are approximately 170 miles of corridor that occupy approximately 4,500 acres. The corridors pass primarily through foothills and rolling land. In addition, there are parcels of land that is agricultural and forest land. In addition to an overview map (Figure 2) a table has been created providing location data for each transmission line (Figure3).

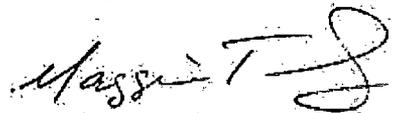
PG&E does not expect continued DCPD operations to adversely affect cultural resources in this study area, as PG&E has no plans to alter current operations or disturb any land for the proposed project. No construction along any of the transmission lines is planned. Maintenance on the transmission lines would continue as currently performed.

PG&E is aware that there are many cultural resources adjacent to and near the DCPD main area of operations. A Cultural Resources Management Plan was developed in the 1980's for CA-SLO-2. This management plan is still in place and being followed to date. On adjacent lands that PG&E owns a protocol for reviewing ranching operation on a regular basis to help avoid adverse impacts cultural resources.

If you have any questions or concerns regarding this project please feel free to call me (916) 201-8571. After your review, we would appreciate your input detailing any concerns you may have about cultural resources in the current study area.

Thank you for taking the time to review this project.

Best Regards,

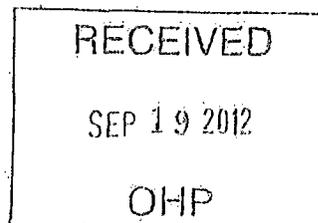


Maggie Trumbly
Cultural Resource Specialist
Enclosure (2 Maps and a Table)

NATIONAL SCIENCE FOUNDATION
4201 WILSON BOULEVARD
ARLINGTON, VIRGINIA 22230

September 18, 2012

Milford Wayne Donaldson
State Historic Preservation Officer
Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, CA 95816



Re: Central Coastal California Seismic Imaging Project

Dear Mr. Donaldson,

The National Science Foundation (NSF) is initiating consultation with the State Historic Preservation Officer (SHPO) regarding the undertaking referenced above. We are consulting with you in accordance with 36 CFR Part 800, the regulations implementing Section 106 of the National Historic Preservation Act. Specifically, we are consulting with you concerning the determination of the Project's area of potential effect (APE), the adequacy of the inventory effort and finding of effect for the proposed undertaking.

Enclosed you will find the following materials in support of our present consultation effort:

1. Attachment 1: Project Description
2. Attachment 2: Cultural Resources Inventory Report (Hewes, Haydu and Price 2012)
 - a. Vicinity, Location and APE maps (Figures 1, 3, 4, 5 and 6);
 - b. Native American consultation documents (Appendix A);
 - c. Cultural Resource Location Maps (Appendix B); and
 - d. Site Records (Appendix C).

The NSF, in cooperation with Pacific Gas and Electric Company (PG&E), proposes to conduct seismic imaging studies in the vicinity of the Diablo Canyon Power Plant (DCPP) and known offshore fault zones. The Project would be conducted along the central coast of California, from just north of Cayucos down to San Luis Bay, in San Luis Obispo County (Figure 1 of Attachment 2). The proposed Project would encompass a large offshore area (1,017.5 kilometers² / 392.8 miles²) and would also involve onshore and nearshore activities.

As proposed, NSF and PG&E would mobilize October 15 and conduct the offshore survey between November 1 and December 31, 2012. Survey activities would be conducted 24 hours per day and 7 days per week. As a result of the ongoing consultation processes with National Marine Fisheries Service under the Marine Mammal Protection Act and the Endangered Species Act, the project plan has been revised to accommodate their guidance that proposed activities occur over two years rather than one.

The Project is being undertaken due to public concerns with operating a nuclear power plant in a seismically active area of California after the Fukushima Daiichi emergency. The seismic studies will provide additional insight concerning any relationships or connections between the known faults as well

as enhance knowledge of offshore faults near DCP. PG&E will obtain as much seismic information as possible, while minimizing environmental impacts consistent with the permits and authorizations required by federal, state, and local agencies to conduct the studies. The objectives of the proposed high energy 3D seismic survey are:

- Record high resolution wide 2D and 3D seismic reflection profiles of major geologic structures and fault zones in the vicinity of DCP;
- Obtain improved deep (>1 km [>0.6 mi]) imaging of the Hosgri and Shoreline fault zones in the vicinity of the DCP to constrain fault geometry;
- Obtain improved (>1km [>0.6 mi] depth) imaging of the intersection of the Hosgri and Shoreline fault zones near Point Buchon;
- Obtain improved (>1 km [>0.6 mi]) imaging of the intersection of the San Simeon and Hosgri fault zones near Point Estero; and
- Augment current regional seismic data base for subsequent use and analysis.

The Project components are summarized below. Please refer to the attached project description for additional information.

For offshore activities, the Project proposes to conduct 3D seismic surveys using a geophysical survey vessel. The primary vessel for survey operations would be the *R/V Marcus G. Langseth*, which is owned by NSF. The *R/V Langseth* would tow a series of sound-generating air guns and sound-recording hydrophones along pre-determined shore-parallel and shore-perpendicular transects to conduct deep (10 to 15 km [6 to 9 mi]) seismic reflection profiling of major geologic structures and fault zones in the vicinity of DCP. In addition to the *R/V Langseth*, other marine vessels would be used as support vessels to monitor marine wildlife activity and prevent gear entanglement with any obstructions.

Nearshore activities would include the placement of geophones along the ocean floor off the coast and adjacent to DCP property. The geophones would be strung together by cables and placed along five shore-perpendicular transects. The geophones would be secured to the ocean bottom with the use of a clump weight or similar device. NMFS has recommended the project be implemented over a two year period. As a result, approximately 12 geophones would be deployed in 2012, and the majority of onshore activities and geophone deployment would occur in 2013.

Onshore activities would include the use of seismic sound sources. Sound sources would be generated from two types of seismic source vehicles: VibroseisTM and accelerated weight drop (AWD) trucks. VibroseisTM and AWD trucks would only be operated on DCP property along predetermined transects that follow existing roads. Vehicle-mounted sound sources would be excluded from cultural resource sites, except where established roads already pass through sites. Sound sources within cultural sites would be generated by hand-placing a metal plate on the ground and striking it with a sledge hammer.

Onshore activities would also include the placement of geophones (recording devices) along the seismic sound source corridors at DCP and would extend onto the adjacent Montana de Oro State Park property. The geophones would be carried by backpack and secured to the ground surface using a five-inch spike located at the bottom of the device. The Project Description incorporates an applicant proposed measure (APM 23) that provides for cultural resource monitors to accompany each field team during deployment of survey equipment and seismic testing to ensure resource protection.

The proposed APE for this project includes the offshore seismic survey areas, the five nearshore geophone alignments adjacent to DCP, the onshore sound sources (VibroseisTM trucks, AWD trucks and sledgehammer) and receiver (geophone) routes, and existing paved areas within DCP that would be used for staging (Figures 2 and 6 of Attachment 2). No site preparation or ground disturbance (vegetation

removal, grading, etc.) for staging areas would be required. Vibroseis™ and AWD trucks would operate on existing, established roads on the DCPD property. Ground disturbance within the APE would be negligible, limited to the placement of geophones on the ground surface and five anchors (or clump weights) used to secure the five nearshore geophone arrays to the ocean floor. The vertical APE would extend from the ground surface to a depth of five inches below the surface to accommodate the geophone spikes. Within the nearshore marine environment, the vertical APE would extend to a maximum of approximately 12 inches where each of the five clump weights would be deployed. No permanent installations or facilities are proposed as part of the Project.

Native American outreach for the Diablo Canyon Seismic Imaging Project was initiated by PG&E in the summer of 2011. Subsequent to PG&E's initial effort, outreach to Native American communities was undertaken by California State Lands Commission (CSLC) while preparing the Environmental Impact Report (EIR) for the Project. Registered letters were sent by the CSLC to tribal representatives on November 14, 2011. No responses were received as of the circulation of the Final EIR in July 2012. The NSF continued consultation pursuant to the requirements of Section 106 in July 2012. The NSF mailed letters to 23 tribal representatives (Attachment 2, Appendix A) on July 23, 2012, explaining the project, announcing the public hearing date and inviting comments on the NSF's "Draft Environmental Assessment (Draft EA) of Marine Geophysical Surveys by the R/V Marcus G. Langseth for the Central Coastal California Seismic Imaging Project." During the 45-day open public comment period of the Draft EA, one comment was received from Patty Dunton, Tribal Administrator for John Burch, Traditional Lead, Salinan Tribe of Monterey and San Luis Obispo Counties and no comments were made by tribal representatives during the public hearing held on August 8, 2012. Follow-up phone calls were made by NSF to tribal representatives that commented during the CSLC public hearings held on the Final EIR or that provided comments on the NSF Draft Environmental Assessment. On August 20, 2012, NSF left voicemail messages for: (1) Patty Dunton, Tribal Administrator for John Burch, Traditional Lead, Salinan Tribe of Monterey and San Luis Obispo Counties, as she had provided written comments on the NSF Draft EA; and, (2) Fred Collins, Tribal Administrator, Northern Chumash Tribal Council (NCTC), as he had provided verbal comments during the CSLC public hearings on the Final EIR. As NSF did not have direct contact information for Crystal Baker of the Coastal Band of the Chumash Nation, who commented during the CSLC public hearings on the Final EIR, on August 21, 2012, NSF contacted Vennise Miller, as she was identified as the Chairperson for the Coastal Band of the Chumash Nation according to information obtained from the Native American Heritage Commission. We discussed the project briefly with Ms. Miller, and she provided Crystal Baker with our contact information. Subsequently Crystal Baker contacted NSF regarding the project. On August 27, 2012, NSF contacted Gabriel Altamirano of the Chumash tribe and discussed the project, as he had contacted via email one of the scientists at Columbia University's Lamont-Doherty Earth Observatory seeking additional information about the project. NSF has subsequently received written comments from Mona Tucker, Tribal Chair of the Northern Chumash Tribe (*yak ti'u ti'u yak tilhini*) and Antonette Cordero, Tribal Chair of the Coastal Band of the Chumash Nation. NSF has continued to have communications with Fred Collins, Crystal Baker, and Gabriel Altamirano, and anticipates holding a meeting with these interested parties (Northern Chumash Tribe, Coastal Band of the Chumash Nation, and the Chumash Nation) via teleconference to discuss the project further and any associated issues.

The enclosed inventory report (Attachment 2) identifies 54 historic properties (including 15 shipwrecks and seven other unevaluated resources that are assumed eligible to the National Register for management purposes) located within the APE. The resources were identified through a combination of field survey, reviewing past survey reports compiled during records searches, and a thorough literature review. Several of the onshore sites are contributing elements of the *Rancho Canada de los Osos y Pecho y Islay* National Register Historic District (listing 7500047, eligible under criterion D).

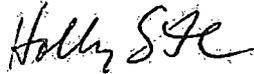
The inventory report includes an assessment of effects from the proposed project on historic properties (and unevaluated resources). The analysis considers the findings of post-activity archaeological monitoring for a comparable onshore project at Diablo Canyon in 2011 which did not result in any impacts to cultural resources. Based on the lack of any ground disturbance with the potential to compromise the integrity of resources, the lack of permanent installations as well as the distance between the identified shipwrecks and nearshore geophones, NSF has determined that the project will result in "No Adverse Effect" to the individual sites and the historic district within the APE.

In closing, NSF requests your comments on the appropriateness of the APE for the proposed undertaking (pursuant to §800.4[a][1]) and the adequacy of historic property identification efforts (pursuant to §800.4[b]), as well as your concurrence with our finding of "No Adverse Effect" (pursuant to §800.5[b][2]).

We look forward to receiving your response and respectfully request an expedited review of the enclosed consultation package. Your response within two weeks of receipt would be greatly appreciated. If you require any additional information, please don't hesitate to contact the undersigned.

Thank you for considering this submittal.

Sincerely,



Holly Smith
Environmental Compliance Officer

Attachments:

1. Attachment 1: Project Description
2. Attachment 2: Cultural Resource Inventory Report (Hewes, Haydu and Price 2012)



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M. Trumbly
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Email: MNT7@pge.com

February 27, 2008

Milford Wayne Donaldson, State Historic Preservation Officer
Office of Historic Preservation
California Department of Parks and Recreation
1416 9th Street, Room 1442-7
Sacramento, CA 95814

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- Diablo-Mesa – One double-circuit line was connected to an existing Morro Bay-Mesa line 10.25 miles from DCPP with an 80-ft. right-of-way width.

- Diablo-Gates – One single-circuit line was connected to the Gates Substation in Fresno County 79 miles northeast of DCPD with a 350-ft. right-of-way width.
- Diablo Midway #2 and 3 – Two single-circuit lines were connected to the Midway Substation in Kern County 84 miles southeast of DCPD with a combined right-of-way width of 400 ft.

In total, there are approximately 170 miles of corridor that occupy approximately 4,500 acres. The corridors pass primarily through foothills sand rolling land. In addition, there are parcels of land that are agricultural and forest land.

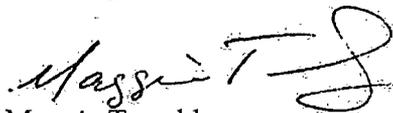
PG&E has completed a Technical Report documenting known cultural resources within 6 miles of the DCPD and 2.4 mile corridor around the Transmission Line (Attachment A). In order to compile this information a data search was completed at the California Historical Resources Information System (CHRIS), an internal PG&E data search and using the National Register Information System on-line database. This report also describes our current Cultural Resources Management Plan for CA-SLO-2, which is located adjacent the DCPD facility.

PG&E does not expect continued DCPD operations to adversely affect cultural resources in the APE, as PG&E has no plans to alter current operations or disturb any land for the proposed project. No construction along any of the transmission lines is planned. Maintenance on the transmission lines would continue as currently performed.

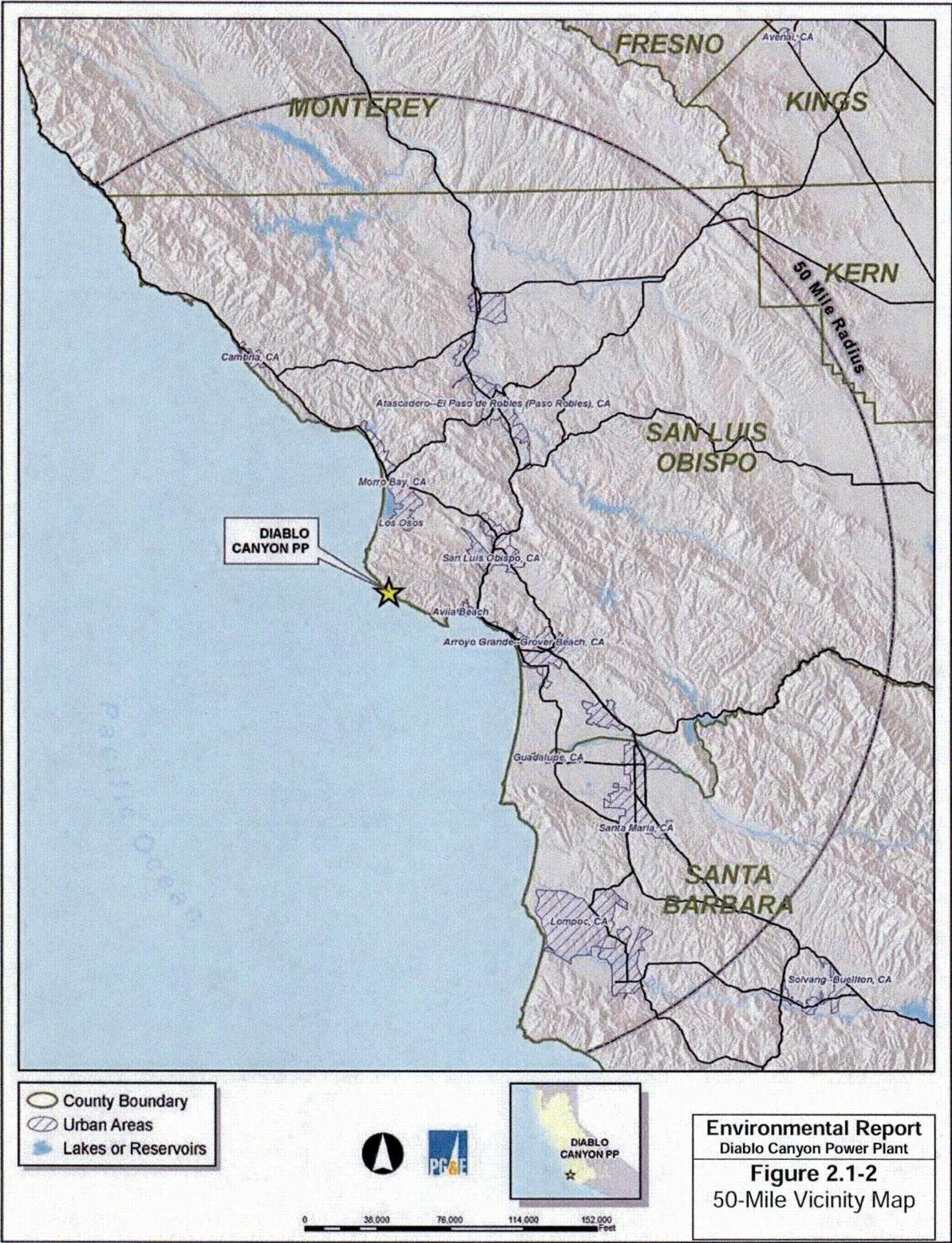
If you have any questions or concerns regarding this project please feel free to call me (916) 201-8571. After your review, we would appreciate your input detailing any concerns you may have about cultural resources in the current study area or confirming PG&E's conclusion that operation of DCPD over the license renewal term would have no effect on cultural resources. This will enable us to meet our application preparation schedule. PG&E will include a copy of this letter and your response in the Environmental Report that may be submitted to the NRC as part of the DCPD license renewal application.

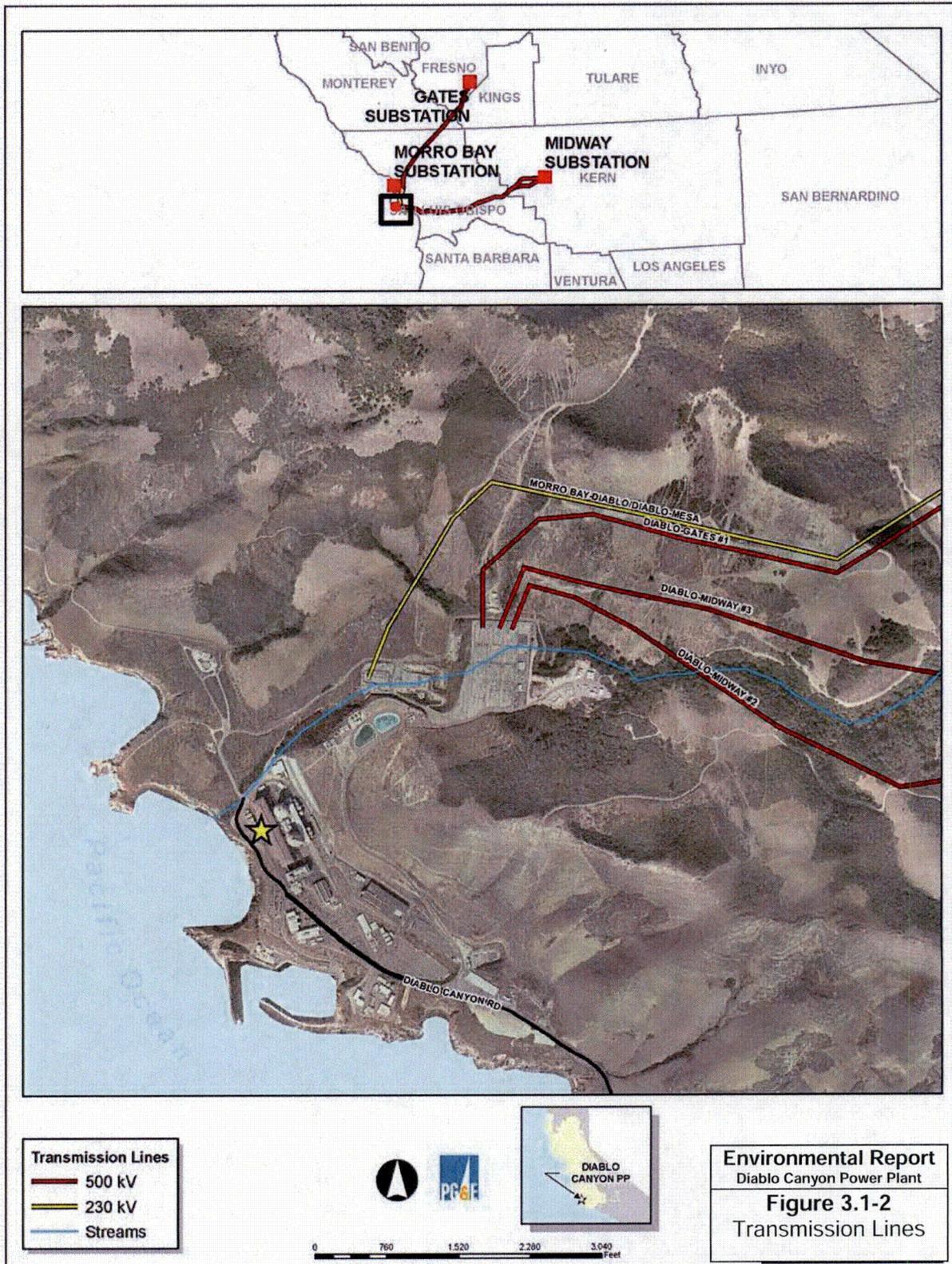
Thank you for taking the time to review this project.

Best Regards,



Maggie Trumbly
Cultural Resource Specialist
Enclosure (Technical Report)





**OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION**

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October 29, 2012

Reply in Reference To: NSF_2012_0919_001

Holly Smith
Environmental Compliance Officer
National Science Foundation
4201 Wilson Boulevard
Arlington, Virginia 22230

Re: Central Coastal California Seismic Imaging Project

Dear Ms. Smith:

Thank you for seeking my consultation regarding the above noted undertaking. Pursuant to 36 CFR Part 800 (as amended 8-05-04) regulations implementing Section 106 of the National Historic Preservation Act (NHPA), the National Science Foundation (NSF) is seeking my comments on the effects the proposed undertaking will have on historic properties.

The project consists of Pacific Gas and Electric (PG&E) conducting seismic imaging studies in the vicinity of the Diablo Canyon Power Plant, both onshore and offshore. The offshore activities include the operation of an NSF research vessel. The vessel would place geophones along the ocean floor adjacent to the power plant. Geophones would be secured to the ocean bottom with the use of a clump weight. The research vessel would also tow a series of sound generating air guns and hydrophones along several transects to record seismic reflection data.

Onshore activities will include the use of Vibroseis and accelerated weight drop trucks on existing paved, gravel and dirt roads. The Vibroseis and accelerated weight drop trucks will not be used within the boundaries of archaeological sites along the dirt or gravel roads. Geophones will be placed along the seismic sound source corridors and onto the adjacent State Park sand spit.

The Area of Potential Effects includes the linear alignments of on shore geophones and seismic transects, as well as the offshore placements of geophones. The vertical APE for effects from geophone placement extends up to five inches deep onshore and up to one foot deep for offshore geophones. The vertical APE for vibrational effects from the Vibroseis technology on archaeological sites is currently poorly understood; however, PG&E has previously documented that no visible effects to stratigraphy occur 20 meters away from the Vibroseis implementation point. In addition to your letter received September 19, 2012, and email amendment to the project description received October 24, 2012, you have provided the following documents as evidence of your efforts to identify historic properties in the APE:

- *Cultural Resources Inventory for the Central California Coastal Seismic Imaging Project* (Savannah Hewes et al., Applied EarthWorks, September 2012)

- *Memorandum: Assessment of Impacts for Geoseismic Operations PG&E Central Coastal California Seismic Imaging Project (Damon Haydu, Applied EarthWorks, October 2012)*

PG&E, on behalf of NSF, has searched their internal cultural resource records, as the APE is almost entirely on PG&E property, in addition to searching the records at the Central Coastal Information Center. As a result of the records search, and previous survey and monitoring work in the past two years, PG&E has identified 39 cultural resources within the onshore APE, and 15 known shipwrecks within the APE for offshore activities.

The precise locations of the 15 identified shipwrecks are unknown, and as such the placement of the sea-floor mounted geophones will be directed by divers, ensuring that the geophones are placed on seafloor and not within shipwrecks or other, obvious submerged cultural resources.

PG&E will avoid working within 10 meters of the 28 archaeological sites bisected by unpaved roads. One of the remaining 11 archaeological sites is not within the planned sourcing transect, and as such will be avoided by the undertaking completely. The ten remaining archaeological sites which are bisected by the highly developed paved road will not likely be affected due to the severe cuts and layers of fill upon which the paved road is constructed. The roads crossing all sites will still be used for access to further portions of the sourcing transects.

Geophones will be placed within the boundaries of sites by crews accessing sites either by foot, or with vehicles on existing roads. The NSF and PG&E have committed to having qualified archaeological monitors present during onshore geophone placement and during sourcing transects to direct and implement the avoidance scheme described above.

Based on the NSF and PG&E's identification efforts and avoidance plan, pursuant to 36 CFR 800.5(c)(1), I concur with the NSF finding of No Adverse Effects to historic properties.

Be advised that under certain circumstances, such as unanticipated discovery or a change in project description, the NSF may have additional future responsibilities for this undertaking under 36 CFR Part 800. Thank you for seeking my comments and considering historic properties as part of your project planning. If you have any questions or concerns, please contact Trevor Pratt of my staff at (916) 445-7017 or at email at tpratt@parks.ca.gov.

Sincerely,



Carol Roland-Nawi, PhD
State Historic Preservation Officer

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March 18, 2009

Reply in Reference To: NRC090303A

Maggie Trumbly
Cultural Resource Specialist
Pacific Gas and Electric
5555 Florin Perkins, Room 137
Sacramento, CA 95826

Re: Section 106 Consultation for License Renewal Feasibility Study for Diablo Canyon Power Plant Operating Licenses

Dear Ms. Trumbly,

Thank you for initiating consultation regarding the Federal Energy Regulatory Commission's (FERC) efforts to comply with Section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. 470f), as amended, and its implementing regulation found at 36 CFR Part 800.

Pacific Gas and Electric (PG&E) is conducting a License Renewal Feasibility Study to determine if it is feasible to renew the Diablo Canyon Power Plant (DCPP) operating license. As part of the license renewal process, the NRC requires license applicants to "assess whether any historic or archaeological resources will be affected by the proposed project." Furthermore, PG&E does not expect continued operations to adversely affect cultural resources in the APE, nor does it expect to alter current operations, either through planned construction or ground disturbance. Maintenance on the transmission lines is expected to continue as currently performed. The decision to pursue license renewal has not been made.

You have requested that I comment on concerns or questions I may have regarding cultural resources located within the study area and that I assess your conclusion that operation of the DCPP over the license renewal term will not affect cultural resources.

To support these findings, you have submitted maps, a technical report, historical documentation and cultural resource records for a study area consisting of three transmission lines encompassing approximately 170 miles of corridor occupying approximately 4500 acres. Based on the information provided, I have the following comment:

1) Relicensing will require the development of a Programmatic Agreement and a Historic Properties Management Plan in consultation with this office.

Thank you for seeking my comments and considering historic properties as part of your project planning. If you have any questions or concerns, please contact Ed Carroll of my staff at (916) 653-9010 or at email at ecarroll@ca.parks.gov.

Sincerely,

Susan K. Stratton for

Milford Wayne Donaldson, FAIA
State Historic Preservation Officer