

State Water Resources Control Board

CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION

Effective Date: JUL 15 2014

CIWQS Program Type: Fill/Excavation

CIWQS Project Type: Overhead Utility

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Place ID:	798195
SWRCB ID:	SB12010IN
USACOE #:	SPN-2012-0043S

Project: Contra Costa-Moraga 230 Kilovolt (kV) Reconductoring Project
(Project)

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I. Certification Action

This Certification Order serves as a Clean Water Act Section 401 Water Quality Certification (Certification) and responds to the request on behalf of Pacific Gas and Electric Company (Applicant) for Certification for the Project. This Certification is for the purpose and design described in the application, and supplemental information, submitted by the Applicant. The application for Certification was received on November 5, 2012. On November 21, 2012, the State Water Board notified the Applicant the application was denied without prejudice pending the submittal of required application information and additional information that would be needed to document the effects of the proposed project on beneficial uses of waters of the state. Required application information was submitted by the Applicant and the application was deemed complete on October 9, 2013. The State Water Board provided public notice of the application pursuant to California Code of Regulations, title 23, section 3858 on October 9, 2013, via the State Water Board website.

The State Water Board is the California Environmental Quality Act (CEQA) lead agency for the Project. The decision-making body of the lead agency must consider the proposed negative declaration or mitigated negative declaration together with any comments received during the public review process prior to approving a project (Cal. Code Regs., tit. 14, § 15074). Six (6) comment letters were received during the thirty (30) day comment period. The State Water Board found that additional information from the Applicant was necessary to fully consider the public comments. Due to the required additional review, the State Water Board notified the Applicant on March 28, 2014, their application was denied without prejudice. Subsequently, the State Water Board completed the review of comments and, made a number of changes to the Initial Study/Mitigated Negative Declaration (IS/MND) for the Project (State Clearinghouse (SCH) No. 2013102015). These changes did not trigger the need for re-circulation and additional public review.

II. Project Purpose

In order to maintain service reliability and meet increasing electric load demands in Contra Costa and Alameda counties, the Applicant is proposing to replace the existing conductors on (i.e., reconductor) the Contra Costa-Moraga 230 kV transmission line (CC-Moraga Line) between Contra Costa Power Plant and Moraga substations. Emergency capacity of the existing double-circuit CC-Moraga Line could be exceeded under peak summer or worst-case power flow conditions. In order to ensure power transmission during peak conditions, the Applicant proposes to replace the existing conductors with conductors having an increased emergency rating. As a result, the overarching objective of the project is to increase reliability and responsive support in the service area of the CC-Moraga Line during outages within the local system.

III. Project Description

The Project includes modifying approximately 64 of 132 existing towers along the line and equipment at Contra Costa Power Plant Substation, Rossmoor Substation, and Moraga Substation to accept the new conductor. The tower modifications include approximately 53 cage extensions as well as other above-ground reinforcements. Foundation reinforcements would be added to approximately eight towers, switches would be added to two towers, and existing switches at one tower would be replaced. PG&E anticipates that construction of the Project would take approximately 12 months within an 18-month window. The Project is scheduled to begin construction tentatively between the fourth quarter of 2014 and first quarter of 2015, with an energization date in mid-2016 or as soon as possible after Project construction.

IV. Location

The Project includes modifications to the CC-Moraga Line, an approximately 27-mile line originating at Contra Costa Power Plant Substation, located in Contra Costa County at 3325 Wilbur Avenue in the City of Antioch (lat. 38° 0'53.28"N long. -121°45'39.06"W). The CC-Moraga Line leaves Contra Costa Power Plant Substation and heads generally southwest for approximately 2 miles before passing by the eastern fence line of Contra Costa Substation, located at 2111 Hillcrest Avenue in the City of Antioch. The line then spans an active railroad track and State Route 4 near Hillcrest Avenue in City of Antioch. From this point, it continues southwest through residential portions of the City of Antioch for approximately 4 miles. The line continues cross-country for approximately 4 miles in a generally southwest direction until entering the City of Clayton. From this point, the line spans residential land uses within the cities of Clayton and Concord, and Clayton Quarry for approximately 3.5 miles. The line continues southwest for approximately 3 miles cross-country, where it enters the City of Walnut Creek. The line continues southwest and spans open space and residential uses for approximately 2.7 miles where it spans Interstate-680 and enters unincorporated Contra Costa County. After spanning approximately 1 mile of residential areas, the line re-enters the City of Walnut Creek and travels southwest for approximately 1.6 miles, spanning residential areas and a golf course before entering the City of Lafayette. From this point, the line heads west for approximately 1 mile to the Lafayette/Moraga Regional Trail, then enters the Town of Moraga and turns northwest for approximately 1.6 miles to Campolindo High School. The line then heads southwest for approximately 1.2 miles to the City of Orinda, spanning residential areas and Orinda Oaks Park. From this point, the line continues southwest to Moraga Substation (lat. 37°50'53.36"N long. -122° 9'36.61"W), which is located near the intersection of Lost Valley Drive and Valley View Drive in the City of Orinda. A map depicting the Project area is located in Attachment A of this Certification.

V. Receiving Waters Information

Definition "Waters of the United States" means surface water and water bodies as defined by United States Environmental Protection Agency (USEPA) regulations (e.g., 40 C.F.R. § 122.2). This definition, which establishes the limits of federal jurisdiction over state waters, does exclude some surface water and water body types recognized under the California Water Code. The latter defines "waters of the state" more broadly as "any surface water or ground water, including saline waters, within the boundaries of the state." [Wat. Code, § 13050, subd. (e)]. Waters of the state that fall outside of federal jurisdiction are nonetheless fully protected under the state Water Code.

According to California Code of Regulations, title 23, chapter 28, article 1, section 3831, a "water quality certification" means a certification that any discharge or discharges to waters of the United States, resulting from an activity that requires a federal license or permit, will comply with water quality standards and other appropriate requirements. As such, this Certification is issued in response to a proposed Project discharge or discharges to waters of the United States, and ensures that the water quality standards for all waters of the state impacted by the Project are met. Discharges shall be delineated according to U.S. Army Corps of Engineers' (Corps) delineation methods.

The Project is located within the jurisdiction of San Francisco Bay and Central Valley Regional Water Quality Control Boards (Regional Water Boards). The receiving waters and beneficial uses of those waters potentially impacted by this Project are outlined in water quality control plans (Basin Plan) for the regions and other plans and policies which may be accessed online

at: http://www.waterboards.ca.gov/plans_policies/. Table 1 shows the receiving waters and beneficial uses of waters of the state impacted by the Project.

Table 1: Receiving Waters Information						
Impacted Aquatic Resource ID and Name¹	Impacted Aquatic Resource Type	Hydrologic Unit	Receiving Waters	Receiving Waters Beneficial Uses	303d Listing Pollutant	CRAM Score
1. Unnamed Ephemeral Drainage	Stream	207.31	Galindo Creek – Suisun Basin	COLD, WARM, WILD, REC-1, REC-2	N/A	N/A
2. Unnamed Ephemeral Drainage	Stream	207.31	Galindo Creek – Suisun Basin	COLD, WARM, WILD, REC-1, REC-2	N/A	N/A
3. Unnamed	Wetland	204.2	Upper San Leandro Creek – South Bay Basin	FRSH, COLD, WARM, WILD, REC-1, REC-2, MIGR ² , SPWN ²	N/A	N/A

Note:

1. Aquatic Resource ID generated by the State Water Board Staff and used for identification in Project Impacts and Compensatory Mitigation sections of this Certification.
2. Potential Beneficial Uses

VI. Project Impacts

This Certification authorizes direct temporary impacts to waters of the state associated with the Project to two (2) ephemeral streams and one (1) wetland. Individual impacts, corresponding to the Aquatic Resource IDs as shown in table 1 above, to waters of the state are described as follows:

1. Crossing Structure 111A will be installed within the bed and bank of #1 unnamed ephemeral drainage. Soil from the excavation and installation of the crossing structure may impact up to 20 linear feet of the drainage, resulting in approximately 1.9 cubic yards of fill, or approximately 0.0005 acre of temporary impact.
2. Site preparation at Pull Site 63 will include vegetation clearing and limited grading to prepare a safe and level work area. A temporary crossing will be installed in #2 unnamed ephemeral drainage during site preparation to allow construction crews to access the eastern portion of Pull Site 63. It is anticipated that some bank stabilization will be required prior to installation of the crossing. Approximately 14 linear feet of the drainage may be filled, resulting in 0.26 cubic yards of fill, or approximately 0.0003 acre of temporary impact.
3. Access to Work Area 114 traverses along two overland access routes. The first overland access route is intended for use during the dry season and is located completely outside the boundaries of the #3 unnamed wetland located near Tower 114. Because this route is located on a hillside and involves traversing steep terrain, a second, flatter overland

access route has been identified for use during the wet season. A portion of this second access route will traverse the wetland. The overland access route will traverse the wetland for approximately 116 linear feet and will be approximately 12 feet wide, resulting in approximately 0.03 acre of temporary impact.

Total Project fill quantities for all impacts are summarized in Table 2.

Table 2: Total Project Fill Information						
Resource Type	Temporary			Permanent		
	Acres	Cubic Yards	Linear Feet	Acres	Cubic Yards	Linear Feet
Lake						
Ocean						
Riparian Zone						
Stream Channel	0.0008	2.16	34			
Vernal Pool						
Wetland	0.03		116			

VII. Mitigation

Projects receiving certification from the State Water Board that authorize impacts to waters of the state must demonstrate the Project design has avoided and minimized impacts to waters of the state to the maximum extent practicable. After all opportunities to avoid and minimize impacts to waters of the state have been implemented, any remaining, unavoidable impacts to waters of the state must be offset by compensatory mitigation. Compensatory mitigation is required to replace the temporary and/or permanent loss of functions, surface area, and linear feet (if applicable) of aquatic resources. Compensatory mitigation is the restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and, in very rare instances with special circumstances, preservation of aquatic resources. The purpose of compensatory mitigation is to offset unavoidable impacts, which remain after all appropriate and practicable avoidance and minimization has been achieved.

The quantity of compensatory mitigation required to offset impacts is based on temporal and permanent losses in functions, surface area, and linear feet (if applicable) of aquatic resources and temporal losses in aquatic resource functions associated with: unique physical, biological, and chemical characteristics of the impact site; loss of special status species habitat; the potential for the impact site(s) to provide functioning habitat; uncertainty in successfully implementing the compensatory mitigation project; in-kind versus out-of-kind mitigation; on-site versus off-site mitigation; the distance between impact sites and mitigation sites, and either delays in constructing the mitigation site or the relatively long period for some types of aquatic resources to develop a full set of functions (e.g., vernal pools, tidal marshes and woody riparian habitats). The Applicant avoided and minimized direct impacts and, incorporated applicant proposed mitigation measures (APMs) in the Project IS/MND. In addition, the State Water Board has required in-kind compensatory mitigation to replace the temporal loss of aquatic resource functions and area of the impacted streams and wetland. Required mitigation for individual impacts is shown in Table 3 and total Project compensatory mitigation information is summarized in Table 4.

Table 3: Required Compensatory Mitigation

Impacted Aquatic Resource ID and Name ¹	Hydrologic Unit (Impact site)	Hydrologic Unit (Mitigation site)	Impact Type ²	Impact Acre(s)	Impact Linear Feet	Required Mitigation Quantity (Acres)	Mitigation Category ³
1. Unnamed Ephemeral Drainage	207.31	207.31	Temp	0.0005	20	0.0005	Permittee Responsible
		n/a	Perm	n/a	n/a	n/a	n/a
2. Unnamed Ephemeral Drainage	207.31	207.31	Temp	0.0003	14	0.0003	Permittee Responsible
		n/a	Perm	n/a	n/a	n/a	n/a
3. Unnamed Wetland	204.2	204.2	Temp	0.03	116	0.03	Permittee Responsible
		n/a	Perm	n/a	n/a	n/a	n/a

Notes:

1. Aquatic Resource ID corresponds to Table 1 of this Certification
2. Impact types include temporary (Temp) or permanent (Perm) impacts
3. Mitigation categories include: permittee responsible, mitigation bank, and in-lieu

Table 4: Total Compensatory Mitigation (Permittee Responsible)

Waterbody Type	Units	Enhanced	Established	Preserved	Restored ¹
Lake	Acres				
Ocean	Acres				
Riparian Zone	Acres				
	Linear Feet				
Stream Channel	Acres				0.0008
	Linear Feet				34
Vernal Pool	Acres				
Wetland	Acres				0.03

Notes:

1. Includes restoration for temporary impacts

VIII. Certification Fees

A certification fee of \$944.00 was received on November 5, 2012, as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3). An additional fee of \$162.00 to offset additional design impacts was received on November 5, 2012.

IX. California Environmental Quality Act (CEQA) Findings

On October 9, 2013, the State Water Board provided notice of intent to adopt an IS/MND (SCH No. 2013102015) for the Pacific Gas and Electric (PG&E) Contra Costa-Moraga 230 Kilovolt (kV) Reconductoring Project (Cal. Code Regs., tit. 14, § 15072). The IS/MND and the findings contained therein, reflect the State Water Board staff's independent judgment and analysis. Changes or alterations have been required in, or incorporated into the Project which avoid or substantially lessen the impacts on the environment as identified in the IS/MND.

After considering the environmental document and comments received during the public review process, the State Water Board staff hereby determines that the proposed Project with mitigation measures and the conditions of this Certification will not result in a significant effect on the environment.

The IS/MND is hereby adopted. The environmental document and other materials, which constitute the record, are located at the State Water Resources Control Board – Division of Water Quality / 1001 I Street 15th Floor / Sacramento, CA 95814. The custodian of the environmental documents and the administrative record is the 401 Certification and Wetlands Unit Program Manager. In accordance with California Code of Regulations, title 14, section 15075, State Water Board staff will file a Notice of Determination with the State Clearinghouse within five (5) days from the issuance of this Order.

X. Conditions

The State Water Board has independently reviewed the record of the Project to analyze impacts to the environment, and water quality and designated beneficial uses within the watersheds of the Project. In accordance with this Order, the Applicant may proceed with the Project under the following terms and conditions.

A. Standard Conditions

1. This Certification action and Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, chapter 28, article 6 (commencing with section 3867).
2. This Certification action and Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent Certification application was filed pursuant to subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. This Certification is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by the Applicant.
4. In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the applicability of any state law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification Order.

B. General Conditions

1. Signatory requirements for all document submittals required by this Certification are set forth in Attachment B of this Certification.
2. For required notifications under this Certification, electronic notification via email to the State Water Board is preferred unless oral notification is required. However,

notification may be via facsimile or delivered written notice. Similarly, electronic document submittal is preferred, but not required. Include in the subject line of any email the: Project name, Certification Regulation Measure ID (Reg. Meas. ID), and Place ID located on the cover page and header of this Certification.

3. The Applicant shall notify the State Water Board, in writing, at least seven (7) days in advance of any ground disturbing or grubbing activities, with details outlining the Project construction schedule.
4. The Applicant shall notify the State Water Board no later than seven (7) days after completing the Project construction activities. State Water Board staff may inspect the Project for compliance with this Certification prior to the Applicant submitting the Project Completion Report.
5. A copy of this Certification shall be provided to any contractor and all subcontractors conducting the construction work, and copies shall remain in their possession at the Project site during the life of the Project. The Applicant shall be responsible for work conducted by its contractor and any subcontractors.
6. A copy of this Certification, the application, and all supporting documentation must be available at the Project sites during construction for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Certification and its posted location at the Project site.
7. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses for receiving waters as adopted in the Basin Plans by any applicable Regional Water Board or any applicable State Water Board (collectively Water Boards) water quality control plan or policy. The State Water Board may impose additional monitoring requirements at any time in order to ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
8. This Certification does not obviate the need of the Applicant to obtain any local, regional, state, and federal permits and approvals as required by law.
9. Permit Registration Documents as required under the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2010-0014 DWQ, NPDES No. CAS00002) (Construction Storm Water Permit) shall be submitted electronically to the State Water Board to obtain coverage under the Construction Storm Water Permit prior to commencement of construction. The Applicant shall notify the State Water Board staff when this submittal is complete.
10. The Applicant shall, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Certification; and all subsequent submittals required as part of this Certification. The conditions within this Certification and attachments supersede any conflicting provisions within Applicant submittals.

C. Administrative Conditions

1. The State Water Board reserves the right to suspend, cancel, or modify and reissue this Certification, after providing notice to the Applicant, if the State Water Board determines that the Project fails to comply with any of the terms or conditions of this Certification.
2. The State Water Board may add to or modify the conditions of this Certification, as appropriate, to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or Clean Water Act section 303 (33 U.S.C. § 1313).
3. This Certification Order and all of its conditions contained herein are not subject to the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. § 1344) permit issued by the Corps for this Project. This Certification Order and all of its conditions contained herein shall remain in full effect, and are fully enforceable until deemed complete by the State Water Board. For purposes of Clean Water Act, section 401(d), the completion of all conditions contained in this Certification Order constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.
4. This Certification does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & G. Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a "take" will result from any act authorized under this Certification held by the Applicant, the Applicant must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. The Applicant is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Certification.
5. Emergency repairs may be required during the construction and maintenance of the Project to address situations that potentially or immediately threaten the integrity of the Project facilities. In response to emergencies that affect or have the potential to affect waters of the state, all applicable communication protocols, APMs, and mitigation measures (MMs) shall be followed to the fullest extent practicable. Once the emergency has abated, any unavoidable environmental damage shall be reported to the State Water Board on the next business day. If required by the State Water Board, the Applicant shall develop an emergency response plan following cessation of the emergency in order to mitigate for any significant water quality effects caused by the emergency response consistent with all applicable APMs, MMs, and any other permits issued for the Project.
6. The Applicant shall grant Water Board staffs, or an authorized representative (including an authorized contractor acting as a Water Boards representative), upon presentation of credentials and other documents as may be required by law, permission to:

- a. Enter upon the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and
- d. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance.

D. Construction Conditions

Good Site Management "Housekeeping"

1. All BMP materials and supplies must be on-site and ready for use at the onset of construction activity, and must remain in supply and ready for use throughout the construction process. All non-structural BMP materials (e.g., training documents, compliance tracking procedures) must be ready for use at the onset of construction.
2. Following construction, all construction debris shall be removed from the Project areas for recycling or disposal at approved locations. Disposal of construction debris for beneficial reuse must not be in a manner that results in adverse environmental impact and is subject to compliance with all applicable survey, landowner or land management agency approval, and permit requirements.

Hazardous Materials

3. At all times, appropriate types and sufficient quantities of materials shall be maintained on-site to contain any spill or inadvertent release of materials that may cause a condition of pollution or nuisance if the materials reach waters of the state.
4. Fueling, lubrication, maintenance, storage, and staging of vehicles and equipment must not result in a discharge to any waters of the state, and shall be located outside of waters of the state in areas where accidental spills are not likely to enter or affect such waters.
5. No equipment maintenance or fueling shall be conducted within one-hundred (100) feet of the edge of any aquatic resource or its tributaries. If infeasible, appropriately sized secondary containment shall be utilized for spill or leak capture and containment.

Stabilization/Erosion Control

6. All necessary BMPs to control erosion and runoff from areas associated with the Project shall be implemented and properly maintained.
7. Erosion protection must be provided for all water body bed and bank areas, as needed, at the approved impact sites.
8. Spoils shall not be stockpiled within the bed and bank of any waterbody and shall be placed in an upland area where they may not wash into any waterbody.

9. Existing root systems of vegetation removed from temporary impact areas shall remain intact, as much as practicable, and only be cut above the surface of the ground.
10. All areas of temporary impacts, and all other areas of temporary disturbance, which could result in a discharge or a threatened discharge to waters of the state shall be restored to pre-disturbance conditions.

Sediment Control

11. All necessary BMPs to control sediment from areas associated with the Project shall be implemented and properly maintained.

E. Site Specific Conditions

1. The Applicant shall comply with all aspects of the mitigation monitoring and reporting program attached hereto as Attachment D, and all APMs as set forth in the IS/MND which is incorporated herein by reference.
2. At least thirty (30) days prior to the authorized impact at Pull Site 63 (Aquatic Resource ID #2 of this Certification), the Applicant shall submit a site specific construction plan for written approval by the State Water Board. The site specific construction plan shall include: (1) a specific design for the temporary crossing, any associated bank stabilization and any associated erosion and/or sediment controls; (2) pre-Project photographs of the temporary impact areas; (3) erosion protection for the bank area following the removal of the crossing to prevent bank erosion and discharge of sediment to the aquatic resource; and (4) a plan for the replacement of any riparian vegetation removed for installation of the temporary crossing. Impacts authorized at Aquatic Resource ID #2 of this Certification shall not occur until the Applicant receives written approval from the State Water Board of the site specific plan.
3. The Applicant shall submit pre-Project and post-Project photo documentation to verify that no impacts occurred to any resources identified in Table 8: Wetland and Water Features in the Vicinity of Construction Areas of the IS/MND (SCH No. 2013102015) that are not authorized by this Certification. Photo documentation shall include dates and Global Positioning System (GPS) coordinates for each of the photo points referenced. Documentation shall be submitted to the State Water Board within thirty (30) days of completion of the Project.
4. Appropriate measures shall be implemented to avoid rutting, and/or mixing of soil horizons, in wetlands (e.g., prefabricated timber mats or low-ground-weight equipment).
5. The Applicant shall remove all Project-related material used to support equipment in any impact location upon completion of construction.

F. Mitigation Conditions**Compensatory Mitigation Plan**

1. At least thirty (30) days prior to the commencement of Project activities, the Applicant shall submit a compensatory mitigation and monitoring plan (Mitigation Plan) for State Water Board review and written approval. The Applicant shall implement the

conditions in this Certification and the Mitigation Plan to mitigate for authorized temporary impacts to waters of the state.

2. The Mitigation Plan for impacts to waters of the state shall include: a plant palette of species to be used in revegetation, success criteria, monitoring and reporting, and corrective actions to be taken when mitigation measures do not meet the proposed success criteria.
3. Compensatory mitigation required under this Certification shall be considered as achieved once it has met the success criteria contained in the Mitigation Plan to the satisfaction of the State Water Board.
4. The Applicant must fully and completely implement the Mitigation Plan. Any deviations from, or revisions to, the Mitigation Plan must be pre-approved by the State Water Board.

Mitigation Requirements for Impacts

5. The Applicant shall notify the State Water Board, in writing, a minimum of seven (7) days in advance of any ground disturbance related to the mitigation activities, with details outlining the mitigation schedule.
6. The Applicant shall restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge of pollutants to waters of the state in accordance with the submitted Mitigation Plan. Restoration shall include grading of disturbed areas to pre-project contours and re-vegetation with plant species native to the Project area. The Applicant shall implement all necessary BMPs to control erosion and runoff from areas associated with the Project.
7. Mitigation construction for temporary impacts shall be completed within fifteen (15) days following completion of Project activity at the individual mitigation locations. This period may be extended to accommodate proper planting times. If mitigation is not initiated within one (1) year of the impacts, additional mitigation shall be required to offset temporal loss of waters of the state. These timelines may be extended as approved by State Water Board staff if progress satisfactory to State Water Board staff has been made.

Annual Compensatory Mitigation Monitoring Report

8. The Applicant shall submit a compensatory mitigation monitoring report, annually, by July 1st of each year containing sufficient information to demonstrate how the compensatory mitigation project is progressing towards accomplishing its objectives and meeting its success criteria. Mitigation monitoring reports shall be submitted annually for a period sufficient to demonstrate that the compensatory mitigation has accomplished the stated objectives and met success criteria contained in the Mitigation Plan. Following project implementation the State Water Board may reduce or waive compensatory mitigation monitoring requirements upon a determination that success criteria have been achieved. Conversely the State Water Board may extend the required monitoring period upon a determination that the success criteria have not been met or the compensatory mitigation project is not on track to meet them. The monitoring reports shall include, but not be limited to, the following information:

- a. The Certification Regulation Measure ID (Reg Meas. ID) and Place ID located on the cover page and header of this Certification;
- b. Names, qualifications, and affiliations of the persons contributing to the report;
- c. A tabulation of the parameters being monitored, and all quantitative and qualitative data collected in the field;
- d. A description of the following mitigation site(s) characteristics:
 - i. General topographic complexity;
 - ii. General upstream and downstream habitat and hydrologic connectivity; and
 - iii. Source of hydrology.
- e. Monitoring data interpretations and conclusions as to how the compensatory mitigation projects are progressing towards meeting success criteria and whether the success criteria have been met;
- f. A description of the progress toward implementing a plan to manage the compensatory mitigation project after success criteria have been achieved including a timetable for future steps;
- g. Qualitative and quantitative comparisons of current mitigation conditions with pre-construction conditions and previous mitigation monitoring results; and
- h. Photo documentation of all areas of temporary impact, prior to and after Project construction. In addition, photo documentation shall include date stamps and GPS coordinates for each of the photo points referenced.

Notice of Restoration and Mitigation Completion

9. Once the Applicant has determined that the success criteria specified in the Mitigation Plan have been achieved for a restored temporary impact location and compensatory mitigation site, the Applicant shall submit a notice of mitigation completion (notice), for approval, to the State Water Board. After approval of the notice in writing by the State Water Board, annual compensatory mitigation monitoring reports for that location are no longer required.

G. Project Status Report Conditions

1. **Annual Project Status Reports:** The Applicant shall submit annual Project progress reports before, during, and after construction describing status of BMP implementation and maintenance, as well as compliance with all requirements of this Certification. Such reports are due to the State Water Board prior to July 1st of each year following the issuance of this Certification, until the Project has reached completion. The report shall include the following information:
 - a. The Certification Regulation Measure ID (Reg Meas. ID) and Place ID (located on the cover page and header of this Certification);
 - b. The names, qualifications, and affiliations of the persons contributing to the report;

- c. The status, progress, and anticipated schedule for completion of Project construction activities including the installation and operational status of best management practices and Project features for erosion control and storm water treatment;
 - d. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion; and
 - e. A description of each incident of noncompliance during the annual monitoring period and its cause, the period of the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance;
2. **Project Completion Report.** The Applicant shall submit a Final Project Completion Report to the State Water Board within thirty (30) days of completion of the Project. The final report shall include the following information:
- a. The Certification Regulation Measure ID (Reg Meas. ID) and Place ID (located on the cover page and header of this Certification);
 - b. Date of construction initiation;
 - c. Date of construction completion;
 - d. BMP installation and operational status for the Project;
 - e. Aerial maps with facility overlays of the Project, no bigger than 11"X17";
 - f. Photo documentation of implemented post-construction BMPs. In addition, photo documentation shall include a date stamp and GPS coordinates for each of the photo points referenced.

H. Violation Conditions

- 1. Failure to comply with any condition of this Certification shall constitute a violation of the Clean Water Act and the Porter-Cologne Water Quality Control Act. Any such Certification previously granted may be revoked, and any or all discharges shall cease. The Applicant and/or discharger may then be subject to administrative and/or civil liability pursuant to Water Code section 13385.
- 2. In response to a suspected violation of any condition of this Certification, the State Water Board may require the holder of this Certification to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provide that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

3. If unauthorized impacts occur, and restoration takes place, a monitoring plan shall be developed to ensure successful restoration.

I. Certification Deviation Conditions

Minor modifications of Project locations or predicted impacts may be necessary as a result of unforeseen field conditions, necessary engineering re-design, construction concerns, or similar reasons. Some of these prospective Project modifications may have impacts on water resources. Some modifications of Project locations or predicted impacts may qualify as Certification Deviations. For purposes of this Certification, a "Certification Deviation" is a Project locational or impact modification that does not require an immediate amendment of the Certification, because the State Water Board has determined that any potential impact on the environment that may result from the change are sufficiently addressed by the Certification conditions and the IS/MND for the Project. Project modification that warrant or necessitate changes to Certification conditions that are not addressed by existing environmental documents will require an amendment to this Certification and do not qualify for the Certification Deviation procedures set forth in Attachment C of this Certification. After the termination of construction, this Certification will be amended to reflect all authorized Certification Deviations and any resulting adjustments to the amount of water resource impacts and required compensatory mitigation amounts.

XI. Providing Notice to the Waterboards

All notices and reporting shall include the: Project name; Certification Regulation Measure ID (Reg Meas. ID); and Place ID located on the cover page and header of this Certification.

For State Water Board

Phone: (916) 341-5462 (Brian Dailey)

Fax: (916) 341-5463 (Attention: Manager CWA Section 401 WQC Program)

E-mail: Brian.Dailey@waterboards.ca.gov

Written notices shall be submitted to State Water Board and the appropriate Regional Water Board at the following addresses:

ATTN: Manager
CWA Section 401 WQC Program
Division of Water Quality
State Water Resources Control Board
1001 I Street 15th Floor
Sacramento, CA 95814

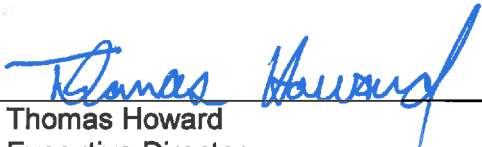
ATTN: Section 401 Certification Program
Watershed Division
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

ATTN: Manager
CWA Section 401 WQC Program
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

XII. Water Quality Certification

I hereby issue the Certification for the Pacific Gas and Electric (PG&E) Contra Costa-Moraga 230 Kilovolt (kV) Reconductoring Project (SB12010IN), certifying that as long as all of the terms and conditions listed in this Certification are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards). This discharge is also regulated pursuant to State Water Board Water Quality Order No. 2003-0017-DWQ which authorizes this Certification to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

Except insofar as may be modified by any preceding terms and conditions, all Certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions of this Certification and the attachments to this Certification, and (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies and the Regional Water Boards' Water Quality Control Plans and Policies, and the IS/MND for the Project.



Thomas Howard
Executive Director
State Water Resources Control Board

7/15/14
Date

- Attachments:
- A. Project Area Map
 - B. Signatory Requirements
 - C. Certification Deviation Procedures
 - D. Mitigation Monitoring and Reporting Program

