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County Clerk
Amador, County of
810 Court St
Jackson, CA 95642

Docket No.:  P-137
Mr. Jan Nimick, Vice President  
Pacific Gas and Electric Company  
Mail Code N11E  
P.O. Box 770000  
San Francisco, CA 94177-0001

Re: Tiger Creek Afterbay Gate No. 6 Design Package

Dear Mr. Nimick:

This is in response to the letter dated June 10, 2020 from Ms. Elisabeth Rossi that submitted the Gate No. 6 Design Package for Tiger Creek Afterbay Dam, which is part of the Mokelumne Project, FERC No. 137. We have reviewed the submittal, and we have the following comments:

1. Rib members may create discontinuities in the skin plate CJP weld backing. Please ensure continuous weld backing for the skin plate CJP weld.

2. All rib welds that will be covered by the skin plate should pass inspection prior to the installation of the skin plate. Consider separating the ribs and skin plate welding in the QCIP checklist.

3. On the “Material Testing Schedule and Field Testing Requirement” sheet in the QCIP, include the testing method and testing frequency for the chain connector. Since it is a small fracture critical member, 100% of the welds should be tested with ultrasonic testing per AWS D1.5.

4. Provide a schedule of the work in the QCIP.
5. The repair of the cracked weld at the left strut arm weld to the top horizontal girder connection was not included in the design drawings. Please include repair detail for this cracked weld.

6. On drawing 3103066 Detail 1, the weld connecting the stem to the base of the chain connector should be specified as a seal weld.

7. For the shoring anchor bolts, it is uncertain whether they can be safely removed without damaging the pier concrete. Consider cutting the anchor bolts and grind flush with the concrete surface in lieu of removal.

8. In the Temporary Construction Emergency Action Plan (TCEAP), please include the contact information of the following FERC personnel:

   John Onderdonk – Branch Chief
   Office: (415) 369-3339
   Mobile: (415) 320-0578

   Vinh Tran – Branch Chief
   Office: (415) 369-3396
   Mobile: (415) 918-7156

9. Any onsite personnel exposed to COVID-19, not just tested positive, should also be isolated and self-quarantine per the applicable CDC guidance.

10. In the text of the QCIP, the construction foreman was described to have the authority to stop work but this was not indicated as such in the Project Organization Chart. Please update the organization chart and provide Mr. Kevin Scott’s resume.

    Provided that PG&E addresses the above comments within 10 days of the date of this letter, PG&E is authorized to immediately proceed with construction. Failure to adequately address our comments within 10 days will require a suspension of all work until the comments are addressed.

    Due to the short duration of this project we will not require monthly construction reports. However, within 90 days of completion of construction, a final construction report, which addresses the applicable items in Enclosure 2, should be submitted. In addition, within 90 days of completion of construction, PG&E should update the Exhibit F as-built drawings as needed and submit, for approval, two copies of any revised drawings to the Secretary of the Commission at the following address, and one copy to this office.
Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

Finally, within 90 days of completion of construction, PG&E should submit the following construction certifications, which must be verified in accordance with Title 18, Section 12.13 of the Code of Federal Regulations (18 CFR 12.13):

1. A certification by the Design Engineer that the project was constructed in accordance with the design intent

2. A certification by the Quality Control Manager that the inspection and testing program resulted in the conclusion that the project was constructed in accordance with the plans and specifications reviewed by the Commission

3. A certification by PG&E that the project was constructed in accordance with the design intent and in accordance with the plans and specifications reviewed by the Commission

Sample certifications are given in Enclosure 2.

If the plans and specifications are revised during the construction process, it is PG&E’s responsibility to ensure that these changes are properly coordinated between the Design Engineer, the Resident Engineer, the Project Manager, the FERC, and you. Also, you are reminded that no changes may be made to the operation of the project without first coordinating those proposed changes with the FERC.

PG&E is responsible for ensuring completion of any necessary environmental coordination with resource agencies as well as the procurement of any federal, state, or local permits required for the work.

We appreciate your continued efforts in this aspect of the Commission’s dam safety program. If you have any questions, please contact Mr. Cheuk Wan at (415) 369-3358.

Sincerely,

[Signature]
Frank L. Blackett, P.E.
Regional Engineer

Enclosures
FINIAL CONSTRUCTION REPORTS FROM LICENSEES

The Final Construction Report should be submitted within 90 days of completion of the work. This report should include all information pertinent to dam safety in a concise form. It should be included in the project file and should be given to the independent consultant for his or her safety inspection and analyses, if applicable. As such, the report should contain a summary of information in each of the applicable sections indicated below (the information was previously presented in the monthly reports). Construction difficulties should be reported under the appropriate sections. For conciseness, test results should be presented in a tabular format, with an indication of the applicable standards. Finally, in those cases where there is nothing to report under a specific heading, a statement of non-applicability will suffice.

1. **General.** Briefly present the reason for construction and description of the work with dates of the beginning and end of construction. Include reservoir drawdown and filing dates, and any findings regarding the original structure.

2. **Foundations.** Discuss the condition of the foundation (faults, etc.) and the treatment of the foundation. Attach a foundation mapping.

3. **Embankments.** Describe the equipment and the types of materials used in filters and fills. Attach gradation and compaction requirements and all test results.

4. **Concrete work.** Describe the equipment and the types of materials used in all concrete work. Include all grout test results and describe any surface treatments.

5. **Anchors.** Present a summary of any drilling operations, including boring logs; results of water pressure tests; anchor design calculations, design loads, and specifications; results of grout tests; results of proof and performance tests; and a summary of the acceptance criteria.

6. **Instrumentation.** Present plots of existing instrumentation readings taken during construction if the readings are affected by the work. Include a plan and schedule for calibration of all new instrumentation.

7. **Drawings.** Attach as-built drawings reduced in size to 8.5"x11" or 11"x17". The drawings should include plan and section views, and details of the structures affected by the new work. The plan and section views should show any new instrumentation that was installed as part of the work.
ENCLOSURE 2
CERTIFICATION
By Design Engineer

CERTIFICATION OF CONSTRUCTION PAGE 1 OF 3

FERC Project No. ____________

Construction Project Description: ________________________________

Design Drawings/Specifications: ________________________________

Quality Control and Inspection Program (QCIP) dated: ________________

This is a certification by the Design Engineer that the project was constructed in accordance with the design intent.

*************************************************************************************************

VERIFICATION

STATE OF CALIFORNIA ]

COUNTY OF ________________], SS:

The undersigned, being first duly sworn, states that he/she has read the above document and knows the contents of it, and that all of the statements contained in that document are true and correct, to the best of his/her knowledge and belief (per 18CFR Part 12, Paragraph 12.13).

__________________________________________
Design Engineer (Print Name)

__________________________________________
Signature

Sworn to and subscribed before me

this ______ day of _____________, 20__

__________________________________________
NOTARY PUBLIC [SEAL]

[STAMP]
FERC Project No. ______________

Construction Project Description: ____________________________________________

Design Drawings/Specifications:

Quality Control and Inspection Program (QCIP) dated: ________________________

This is a certification by the Quality Control Manager that the inspection and testing program resulted in the conclusion that the project was constructed in accordance with the plans and specifications reviewed by the Commission.

******************************************************************************

VERIFICATION

STATE OF CALIFORNIA]

COUNTY OF __________________________], SS:

The undersigned, being first duly sworn, states that he/she has read the above document and knows the contents of it, and that all of the statements contained in that document are true and correct, to the best of his/her knowledge and belief (per 18CFR Part 12, Paragraph 12.13).

__________________________
Quality Control Manager (Print Name)

__________________________
Signature

Sworn to and subscribed before me

this _______ day of ________________, 20____

__________________________
NOTARY PUBLIC

[STAMP]

[SEAL]
Enclosure 2
CERTIFICATION
By Licensee

CERTIFICATION OF CONSTRUCTION  PAGE 3 OF 3

FERC Project No. ____________

Construction Project Description: ____________________________________________

Design Drawings/Specifications:

____________________________________

Quality Control and Inspection Program (QCIP) dated: ____________________________

This is a certification by the Licensee or Exemptee that the project was constructed in
accordance with the design intent and in accordance with the plans and specifications reviewed
by the Commission.

******************************************************************************

VERIFICATION

STATE OF CALIFORNIA  

COUNTY OF _______________________, SS:

The undersigned, being first duly sworn, states that he/she has read the above document
and knows the contents of it, and that all of the statements contained in that document are
true and correct, to the best of his/her knowledge and belief (per 18CFR Part 12,
Paragraph 12.13).

______________________________
For Licensee or Exemptee (Print Name)

______________________________
Signature

Sworn to and subscribed before me

this ________ day of ________________, 20___

______________________________
NOTARY PUBLIC

[STAMP]

[SEAL]