August 7, 2012

Advice Letter 3832-E

Brian K. Cherry  
Vice President, Regulation and Rates  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, CA  94177

Subject: Cedar Creek Bridge Replacement Agreement – Request for Approval Under Section 851

Dear Mr. Cherry:

Advice Letter 3832-E is effective July 25, 2012.

Sincerely,

Edward F. Randolph, Director  
Energy Division
April 18, 2011

Advice 3832-E
(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Cedar Creek Bridge Replacement Agreement – Request for Approval Under Section 851

Purpose

Pacific Gas and Electric Company (“PG&E”) respectfully requests an order from the California Public Utilities Commission (“CPUC”) authorizing PG&E under Public Utilities Code § 851 (“Section 851”) to enter into an agreement (the “Agreement”) with the County of Butte (“Butte County” or the “County”) that will allow PG&E to deed a new bridge to the County.

Background

PG&E owns land, rights-of-ways, buildings and other structures in connection with the provision of energy service throughout its service territory. The area situated near the Camp Meeting Road in Butte County, California, is one such area where PG&E owns three major electric transmission lines; the Rock Creek-Poe and Bucks Creek-Rock Creek-Cresta 230 kV lines and the Caribou-Palermo 115 kV line (the “Facilities”) situated on land owned by the United States Forest Service (USFS).

As a result of the Rim Fire that occurred in the Feather River Canyon in 2008, a County-owned and maintained wooden bridge on Camp Meeting Road (the “Old Bridge”) was destroyed. The Old Bridge was located over Cedar Creek (regulated by the California Department of Fish and Game) that connected two adjacent sections of Camp Meeting Road (administered and maintained by the County) and was located on fee property owned by the USFS.

The Old Bridge was situated approximately 800 feet from the Facilities and is the only land access to the Facilities. The Old Bridge provided critical access to approximately 3 line miles of PG&E electric transmission line and 95 transmission towers. After the destruction of the Old Bridge, temporary culverts were placed in the stream for emergency access; these measures are now unsafe. The absence of the Old Bridge presents a significant operational risk to PG&E in the event of a line or structural
failure in this area. Without a bridge, all access would be limited to helicopter or hours of foot access depending on weather conditions at the time of a failure.

While a bridge is critical to PG&E’s operational activity, the County currently does not have the financial resources to fund the construction of a new replacement bridge (“Replacement Bridge”). The County has further indicated their intention to close off all access beyond the aforementioned creek, unless PG&E installs its own access bridge.

To ensure continued electrical operations and protect the safety of associated infrastructure, PG&E and the County have entered into an Agreement wherein PG&E will replace the destroyed bridge at the same location at its sole cost, where the County will approve the bridge plans and upon approval will accept the Replacement Bridge by deed and incorporate the Replacement Bridge into the County’s Bridge Maintenance Program, more further described in the Agreement included herein as Attachment 1.

PG&E has reviewed the cost and benefits both operational and societal and determined that this transaction will protect the safe delivery of electric service to the County and will not be adverse to the environment and public interest.

In accordance with Resolution ALJ-244, Appendix A, Section IV, PG&E provides the following information related to the proposed transaction:

(1) **Identity and Addresses of All Parties to the Proposed Transaction:**

<table>
<thead>
<tr>
<th>Pacific Gas and Electric Company</th>
<th>Butte County Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ann H. Kim</td>
<td>Attention: Mike Crump, Director</td>
</tr>
<tr>
<td>Law Department</td>
<td>7 County Center</td>
</tr>
<tr>
<td>P.O. Box 7442</td>
<td>Oroville, CA, 95965</td>
</tr>
<tr>
<td>San Francisco, CA 94120</td>
<td>Telephone: 530.538.7681</td>
</tr>
<tr>
<td>Telephone: (415) 973-7467</td>
<td>E-mail: <a href="mailto:mcrump@buttecounty.net">mcrump@buttecounty.net</a></td>
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<tr>
<td>Facsimile: (415) 973-5520</td>
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</tr>
<tr>
<td>Email: <a href="mailto:AHK4@pge.com">AHK4@pge.com</a></td>
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(2) **Complete Description of the Property Including Present Location, Condition and Use:**

The site of the Old Bridge is located in Butte County along Pulga Road north of Highway 70 in the Feather River Canyon and more specifically Section 10, Township 23 North, Range 05 East, MDB&M. The project area encompasses 0.8 acres, including the bridge replacement location, a laydown area, and a turnaround area (the “Project Area”). A map of the Project Area is included herein as Attachment 2.
PG&E does not presently own any asset, fee property, or right of way at the Project Area. Prior to the Old Bridge’s destruction in the Rim Fire, the County owned, operated and maintained a wooden bridge structure located over Cedar Creek at log mile 7.5 that connected the two adjacent sections of Camp Meeting Road, a County maintained public road located on fee property owned by the USFS.

(3) Intended Use of the Property:

As provided in the Agreement, PG&E agrees to replace the bridge at Camp Creek Road log mile 7.5 with a new bridge structure ("Replacement Bridge") at its sole cost, including the costs associated with the design, environmental review (CEQA), permits, and construction. PG&E also agrees to remove the culverts and fill materials previously placed in the drainage by PG&E.

The Replacement Bridge is designed as a 40-ton load steel girder bridge with metal beam guardrails measuring approximately 14-feet wide by 40-feet long using precast concrete blocks and other precast elements for footings that will bear on natural rock. The design of the abutment and approach of the Replacement Bridge is described in the drawings prepared by PG&E’s consultant, Winzler & Kelly dated 8/2/10, Sheets S-1 through S-7. The design of the Replacement Bridge is set forth in the drawings prepared by ADM Welding and Fabrication dated 7/28/10, Sheets 1 through 7, and the Structural Calculations was prepared by Winzler & Kelly dated 7/10/10. Copies of these drawings and calculations are attached hereto as Attachment 3.

(4) Complete Description of Financial Terms of the Proposed Transaction:

PG&E expects to recover the project costs through the cost recovery mechanism provided under the Federal Energy Regulatory Commission (FERC) Transmission Owner’s Rate Case.

(5) Description of How Financial Proceeds of the Transaction Will Be Distributed:

Pursuant to the Agreement, PG&E will not receive any financial proceeds from the County for this transaction.

(6) Statement on the Impact of the Transaction on Ratebase and Any Effect on the Ability of the Utility to Serve Customers and the Public:

When the Replacement Bridge is deeded to the County, the costs will be recorded as Transmission Plants: Land Rights (FERC Accounting 350). The cost of this asset will be depreciated and recovered from electric transmission customers through FERC jurisdictional rates.
(7) The Original Cost, Present Book Value, and Present Fair Market Value for Sales of Real Property and Depreciable Assets, and a Detailed Description of How the Fair Market Value Was Determined (e.g., Appraisal):

PG&E’s electric transmission and substation operations have estimated the total bridge replacement costs to be $550,000.

(8) The Fair Market Rental Value for Leases of Real Property, and a Detailed Description of How the Fair Market Rental Value Was Determined:

Not applicable.

(9) For Fair Market Rental Value of the Easement or Right-of-Way and a Detailed Description of How the Fair Market Rental Value Was Determined:

Not applicable.

(10) A Complete Description of any Recent Past (Within the Prior Two Years) or Anticipated Future Transactions that May Appear To Be Related to the Present Transaction:

To PG&E’s knowledge, there are no recent past transactions nor anticipated future transactions that appear to be related to this transaction.

(11) Sufficient Information and Documentation (Including Environmental Review Information) to Indicate that All Criteria Set Forth in Section II of Resolution ALJ-244 Are Satisfied:

PG&E has provided information in this advice letter to meet the eligibility criteria for approval of the Agreement under the CPUC’s advice letter pilot program. Under the California Environmental Quality Act (CEQA) requirements in Resolution ALJ-244, the approval of the Agreement proposed in the transaction will not require environmental review by the CPUC as a lead or responsible agency. The proposed transaction has met various permit/authorizations required by the Regional Water Quality Control Board, U.S. Army Corps of Engineers, California Department of Fish and Game and the Plumas National Forest Service. Copies of these various permits/authorizations are provided herein as Attachment 4. Further, as described in Section (13) below, the proposed transaction has been granted a Categorical Exemption (CEQA Section 15302) by the County.

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1 During adoption of the Advice Letter pilot program in ALJ-186 (later followed by ALJ-202 and ALJ-244), this category of information was included to enable the CPUC to ensure that utilities were not seeking to circumvent the $5 million Advice Letter threshold by dividing what is a single asset with a value of more than $5 million into component parts each valued at less than $5 million, which is clearly not the case here. (See CPUC Resolution ALJ-186, issued August 25, 2005, mimeo, p.5.)
The proposed transaction will serve the public interest by providing public access over a public road vitally important for all-weather and emergency access to PG&E’s Facilities critical for reliable electric transmission service served from these Facilities. There is no payment for the proposed Agreement. Finally, the transaction does not involve the transfer or change in ownership of facilities currently used in utility operations.

(12) Additional Information to Assist in the Review of the Advice Letter:

PG&E is presently unaware of any additional information that is readily available other than what is already included with this filing that would assist in the review of this advice letter.

(13) Environmental Information

Pursuant to ALJ-244, the Advice Letter program applies to proposed transactions that: (a) will not require environmental review by the CPUC as a lead agency or responsible agency under CEQA either because a statutory or categorical exemption applies, or (b) because the transaction is not a project under CEQA.

a. Exemption

i. Has the proposed transaction been found exempt from CEQA by a government agency?

Yes. The County, as the lead agency for CEQA review, has found the proposed transaction categorically exempt.

1. If yes, please attach notice of exemption. Please provide name of agency, date of Notice of Exemption, and State Clearinghouse number.

   The County acted as the lead agency for CEQA review and filed a Notice of Exemption on March 17, 2010. The County has found the proposed transaction categorically exempt pursuant to CEQA Section 15302, Replacement or Reconstruction Class 2. A copy of the Notice of Exemption is provided herein as Attachment 5.

2. If no, does the applicant contend that the project is exempt from CEQA? If yes, please identity the specific CEQA exemption or exemptions that apply to the transaction, citing to the applicable State CEQA Guideline(s) and/or Statute(s).
b. Not a “Project” Under CEQA
   i. If the transaction is not a “project” under CEQA, please explain why.
      Not applicable.

Protests

Anyone wishing to protest this filing may do so by letter sent via U.S. mail by facsimile or electronically, any of which must be received no later than May 9, 2011, which is 21 days after the date of this filing. Protests should be mailed to:

CPUC Energy Division
Attention: Tariff Unit, 4th Floor
505 Van Ness Avenue
San Francisco, CA 94102

Facsimile: (415) 703-2200
E-mail: mas@cpuc.ca.gov and jnj@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest also should be sent via U.S. mail (and by facsimile and electronically, if possible) to PG&E at the address shown below on the same date it is mailed or delivered to the Commission:

Pacific Gas and Electric Company
Attention: Jane Yura
Vice President, Regulation and Rates
77 Beale Street, Mail Code B10B
P.O. Box 770000
San Francisco, CA 94177

Facsimile: (415) 973-6520
E-mail: PGETariffs@pge.com
Effective Date

Pursuant to the review process outlined in Resolution ALJ-244, PG&E requests that this advice filing become effective as soon as possible. **PG&E submits this filing as a Tier 3 advice letter.**

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and Appendix A. Address change requests and electronic approvals should be directed to e-mail PGETariffs@pge.com. Advice letter filings can also be accessed electronically at http://www.pge.com/tariffs.

[Signature]

Vice President - Regulation and Rates

Attachments
********** SERVICE LIST Advice 3832-E **********

APPENDIX A

Karen Clopton
Administrative Law Judge Division
505 Van Ness Avenue
San Francisco, CA 94102
(415) 703-2008
kvc@cpuc.ca.gov

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(415) 703-2187
bfs@cpuc.ca.gov

Andrew Barnsdale
Energy Division
505 Van Ness Avenue
San Francisco, CA 94102
(415) xxx-xxxx
@cpuc.ca.gov

********** AGENCIES **********

Butte County Public Works
Attention: Mike Crump, Director
7 County Center
Oroville, CA, 95965
Telephone: 530.538.7681
E-mail: mcrump@buttecounty.net
Company name/CPUC Utility No. **Pacific Gas and Electric Company (ID U39 M)**

<table>
<thead>
<tr>
<th>Utility type</th>
<th>Contact Person</th>
<th>Phone #</th>
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<tr>
<td>☒ ELC</td>
<td>Conor Doyle</td>
<td>415-973-7817</td>
<td><a href="mailto:jcdt@pge.com">jcdt@pge.com</a></td>
</tr>
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**EXPLANATION OF UTILITY TYPE**

ELC = Electric         GAS = Gas
PLC = Pipeline         HEAT = Heat      WATER = Water

Advice Letter (AL) #: **3832-E**

Subject of AL: **Cedar Creek Bridge Replacement Agreement – Request for Approval Under Section 851**

Keywords (choose from CPUC listing):

AL filing type: ☒ Monthly ☐ Quarterly ☐ Annual ☒ One-Time ☐ Other _____________________________

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #:

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: **No**

Summarize differences between the AL and the prior withdrawn or rejected AL:

Is AL requesting confidential treatment? If so, what information is the utility seeking confidential treatment for: **No**

Confidential information will be made available to those who have executed a nondisclosure agreement: **N/A**

Name(s) and contact information of the person(s) who will provide the nondisclosure agreement and access to the confidential information: ___________________________________________

Resolution Required?: **☒ Yes** ☐ No

Requested effective date: Upon CPUC Approval

No. of tariff sheets: ☐

Estimated system annual revenue effect (%): **N/A**

Estimated system average rate effect (%): **N/A**

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected:

Service affected and changes proposed:

Protests, dispositions, and all other correspondence regarding this AL are due no later than 20 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:

**CPUC, Energy Division**

Tariff Files, Room 4005

DMS Branch

505 Van Ness Ave., San Francisco, CA 94102

jnj@cpuc.ca.gov and mas@cpuc.ca.gov

**Pacific Gas and Electric Company**

Attn: Jane Yura, Vice President, Regulation and Rates

77 Beale Street, Mail Code B10B

P.O. Box 770000

San Francisco, CA 94177

E-mail: PGETariffs@pge.com
Attachment 1

Agreement between County of Butte and Pacific Gas and Electric to Replace Destroyed Bridge on Camp Creek Road Log Mile 7.5
AGREEMENT
BETWEEN
COUNTY OF BUTTE
AND
PACIFIC GAS AND ELECTRIC
TO
REPLACE DESTROYED BRIDGE ON
CAMP CREEK ROAD LOG MILE 7.5

THIS AGREEMENT, is made and entered into this_______
of ____________________________ 2010, by and between the COUNTY OF BUTTE, hereinafter
referred to as "County" and PACIFIC GAS AND ELECTRIC COMPANY, a California
Corporation, hereinafter referred to as “PG&E.”

WITNESSETH:

WHEREAS, the County operated and maintained a wood bridge structure located over a creek at
log mile 7.5 that connects the two adjacent sections of Camp Meeting Road, a County maintained
road (Butte County Road 76555E) in Butte County; and

WHEREAS, the bridge was destroyed in a wildfire in 2008 known as the Rim Fire; and

WHEREAS, PG&E desires to replace the destroyed bridge at its sole cost, including the costs
associated with the design, environmental review (CEQA), permits, and construction; and

WHEREAS, County desires that bridge be replaced at same location, and

WHEREAS, County wishes to approve the bridge plans, and

WHEREAS, County wishes to accept completed bridge into the County’s Bridge Maintenance
Program.

NOW THEREFORE, IT IS AGREED as follows:

1. As provided herein, PG&E agrees to replace the bridge at Camp Creek Road log mile 7.5 with a
new bridge structure (“Replacement Bridge”) at its sole cost, including the costs associated
with the design, environmental review (CEQA), permits, and construction. PG&E also agrees
to remove the culverts and fill materials previously placed in the drainage by PG&E. The
design of the abutment and approach of the Replacement Bridge is described in the drawings
prepared by PG&E’s consultant, Winzler & Kelly dated 8/2/10, Sheets S-1 though S-7, which
is attached hereto as Exhibit "A" and incorporated by reference. The design of the
Replacement Bridge is set forth in the drawings prepared by ADM Welding and Fabrication
dated 7/28/10, Sheets 1 through 7, which is attached hereto as Exhibit "B", and the Structural
Calculations prepared by Winzler & Kelly dated 7/10/10, which is attached hereto as Exhibit
“C”, and incorporated by reference.

2. The County hereby approves the design of the replacement bridge described in Exhibits A
and B. PG&E shall construct the Replacement Bridge in accordance with the approved design.
Any changes to the design of the Replacement Bridge shall require the County’s prior written approval. PG&E agrees to work with County to approve any modifications to the approved plans. The County and PG&E agree to exchange technical data and other relevant information related to the construction of the Replacement Bridge.

3. Upon completion of the bridge, PG&E shall file an application with the California Public Utilities Commission (“CPUC”) for approval of the transfer all of its right, title and interest into the Replacement Bridge to the County. The transfer of PG&E’s interest in the Replacement Bridge to the County is conditioned upon PG&E having obtained, at PG&E’s expense, any and all approvals (“CPUC Approval”) from the CPUC that may be required by any laws, rules or regulations upon terms and conditions acceptable to PG&E in PG&E’s sole discretion. PG&E agrees to use its commercially reasonable efforts to bring about the satisfaction of the condition precedent. County acknowledges that PG&E makes no representation or warranty with respect to CPUC Approval, and waives all claims against PG&E which may arise out of losses, expenses or damages suffered or incurred by the County as a result of the failure of the CPUC to approve the transfer of the Replacement Bridge to the County as contemplated by this Agreement.

4. Within thirty (30) days after obtaining CPUC Approval, PG&E shall provide the County with an Offer of Dedication to memorialize the transfer of its right, title and interest to the Replacement Bridge substantially in the form attached as Exhibit D, which is incorporated herein by reference. Provided that the Replacement Bridge in conformance with the designs attached in Exhibits A and B, any approved changes of design, and constructed good workmanlike manner, the County agrees to promptly accept the Offer of Dedication for the completed Replacement Bridge. Upon County’s acceptance, the Replacement Bridge will be included in the County’s Bridge Maintenance Program.

5. PG&E, by the acceptance of this agreement, shall assume full responsibility for all liability resulting from its negligence or willful misconduct in the bridge replacement activities and for all liability for personal injury or damage to property which may arise out of the work herein permitted within the County right of way. In the event any claim of such liability is made against the County of Butte or any department, official or employee thereof, PG&E shall defend, indemnify and hold them and each of them harmless of such claim.

6. This Agreement and the exhibits hereto constitute the entire agreement and understanding between the parties as to the subject matter of the Agreement. This Agreement supersedes all prior or contemporaneous agreements, commitments, representations, writings, and discussions between the County and PG&E, whether oral or written, and has been induced by no representations, statements or agreements other than those expressed herein.

7. This Agreement may be executed in two (2) or more counterparts (including by means of facsimile), each of which shall be deemed an original and all of which shall, taken together, be considered one and the same agreement.

8. This Agreement shall be governed by and interpreted and enforced in accordance with the laws of the State of California.
COUNTY OF BUTTE

By: ____________________________
Mike Crump
Director, Butte County Public Works

_____________________________
County Counsel

_____________________________
Contracts Division

PACIFIC GAS AND ELECTRIC COMPANY

By: ____________________________
Name____________________________
Title____________________________
Attachment 2

Bridge Replacement Map
Attachment 3

Structural Calculations Review
Camp Creek Road Replacement Bridge
PACIFIC GAS & ELECTRIC COMPANY

STRUCTURAL CALCULATIONS REVIEW
CAMP CREEK REPLACEMENT BRIDGE

CONTENTS

1. INTRODUCTION
2. DESIGN BASIS
3. STRUCTURAL CALCULATIONS REVIEW SUMMARY

Appendix

1. Bridge Fabricator Calculations
1. INTRODUCTION

This document represents Winzler & Kelly’s review of the structural design calculations for the design and construction of a new modular steel replacement bridge to be located on Camp Creek Road near Highway 70 along the Feather River in Butte County, California. The original bridge structure consisting of timber abutments and superstructure was completely destroyed in a June 2008 fire.

The bridge site is located at approximately 39.876 degrees latitude and -121.379 degrees longitude.

The steel bridge superstructure will be purchased and installed by Pacific Gas and Electric Company (PG&E) to be used by PG&E maintenance staff and vehicles. Following installation, the bridge will be maintained by Butte County Public Works. ADM Welding and Fabrication (ADM) have provided structural calculations and will fabricate the bridge superstructure in Warren, Pennsylvania and provide transportation to the project site.

The bridge superstructure consists of a single 40'-0" span with six, hot-rolled steel girders. Each of the four modular sections is approximately 7'-6" wide and 20 feet long. The center to center bearing length is 38'-0". Bridge decking consists of nail laminated 2"x4" dimensional, pressure treated lumber spanning between the girders. The bridge superstructure will be supported by two cast-in-place concrete abutments founded on native bedrock. The bridge approach will be retained on each downslope side of the bridge by concrete wingwalls.

This document consists of Winzler & Kelly’s review of the structural calculations provided by ADM. Winzler & Kelly has performed the structural calculations review in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances at the same time and in the same or similar locality.

2. DESIGN BASIS

2.1 Assumptions

Design information consisting of the characterization and geotechnical properties of the subsurface material at the project site was unavailable, so assumptions were made using prescriptive values as provided in Chapter 18 of the 2007 CBC.

2.2 Applicable Design Codes and Standards

The following codes and references will be used:


0163609004 PG&E
Camp Creek Road Replacement Bridge Structural Calculations
July 2010
• American Welding Society (AWS), Structural Welding Code, ANSI/AWS D1.5-
  Bridge Welding Code, with amendments to date
  Association of State Highway and Transportation Officials (AASHTO).
• “2007 California Building Code (CBC),” California Building Standards
• “Minimum Design Loads for Buildings and Other Structures,” ASCE 7-05,
  American Society of Civil Engineers (ASCE), 2005.
• “Building Code Requirements for Structural Concrete,” American Concrete
  Institute (ACI), ACI 318-05, 2005.

2.3 Lateral Load Design

2.3.1 Seismic Loads

The Caltrans Seismic Design Criteria (version 1.5) standard was used to develop a
probabilistic response spectrum for use in designing the bridge abutments and
superstructure anchorage. The design response spectrum is based on a seismic event with
a 5 percent probability of occurrence in 50 years (equivalent to a 975 year return period).
USGS Seismic Hazard maps were used to develop the design spectrum.

The following seismic design criteria will be used per 2007 CBC and ASCE 7-05:

Sds.................................................................0.547
SDI .................................................................0.249

2.3.2 Wind Loads

The bridge structure will be subject to wind loading consisting of a design pressure of 40
psf per Caltrans BDS Section 3.15.2.2.

2.4 Design Loads

Dead loads of different construction materials for use in determining self-weight are
listed below:

Steel.................................................................490 psf

0163609004 PG&E
Camp Creek Road Replacement Bridge Structural Calculations
                                      July 2010
Concrete with reinforcing steel.........................150 pcf
Timber...........................................................35 pcf

The following live loads will be used:
Vehicle (HS25-44)..............................................45 tons
10,000 lbs (steering axle), 40,000 lbs (driving axle),
40,000 lbs (trailer axle)

Impact Loading

Increase factor due to live load is assumed to be 10% maximum based on posted 10 mph
speed limit restriction at bridge.

2.5 Load Combinations

The bridge superstructure, abutments and wingwalls shall be designed using the load
combinations as defined in Section 3.22.1A of AASHTO per tables below.
### TABLE 3.22.1A  Factors for Load Factor Design

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<td>0</td>
<td>0</td>
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</tbody>
</table>

H denotes H loads.
P_C denotes P loads on closely spaced girders used only for superstructures.
P_W denotes P loads on widely spaced girders and substructures.
P_3D denotes P loads only on superstructures when three-dimensional analysis is used for load distribution.

- \( \beta_D = 0.75 \) when checking columns for maximum moment or maximum eccentricities and associated axial load; and when Dead Load effects are of opposite sign to the net effects of other loads in a Group.
- \( \beta_D = 1.00 \) when checking columns for maximum axial load and associated moment.
- \( \beta_D = 1.00 \) for flexural and tension members and for culverts.
- \( \beta_E = 0.50 \) for checking positive moments in rigid frames.
- \( \beta_E = 1.00 \) for vertical earth pressure and for rigid culverts.
- \( \beta_E = 1.30 \) for lateral earth pressure. (Not for culverts.)
- \( \beta_E = 1.50 \) for flexible culverts.

* Group X applies only to culverts. Other Groups do not apply to culverts.
TABLE 3.22.1B  Factors for Service Load Design

<table>
<thead>
<tr>
<th>Group</th>
<th>Gamma Factor</th>
<th>Beta Factors</th>
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<tbody>
<tr>
<td>I</td>
<td>1.0</td>
<td>D  1  ID 1  CF 1  E 1  B 1  SF 1  W 0  WL 0  LF 1  P_a 0  R+S+T 0  ICE 0</td>
</tr>
<tr>
<td>II</td>
<td>1.0</td>
<td>D  1  ID 0  CF 1  E 1  B 1  SF 1  W 0  WL 0  LF 1  P_a 0  R+S+T 0  ICE 0</td>
</tr>
<tr>
<td>III</td>
<td>1.0</td>
<td>D  1  ID 1  CF 1  E 1  B 1  SF 1  W 0.3  WL 1  LF 1  P_a 0  R+S+T 0  ICE 0</td>
</tr>
<tr>
<td>IV</td>
<td>1.0</td>
<td>D  1  ID 1  CF 1  E 1  B 1  SF 1  W 0  WL 0  LF 1  P_a 0  R+S+T 0  ICE 0</td>
</tr>
<tr>
<td>V</td>
<td>1.0</td>
<td>D  1  ID 0  CF 1  E 1  B 1  SF 1  W 1  WL 0  LF 1  P_a 0  R+S+T 0  ICE 0</td>
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<tr>
<td>VI</td>
<td>1.0</td>
<td>D  1  ID 1  CF 1  E 1  B 1  SF 1  W 0.3  WL 1  LF 1  P_a 0  R+S+T 0  ICE 0</td>
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<tr>
<td>IX</td>
<td>1.0</td>
<td>D  1  ID 0  CF 1  E 1  B 1  SF 1  W 1  WL 0  LF 1  P_a 0  R+S+T 0  ICE 0</td>
</tr>
</tbody>
</table>

* Not applicable for culvert design. Use Load Factor Design.

% Indicates percentage of basic unit stress.

No increase in allowable unit stresses shall be permitted for members or connections carrying wind loads only.

P Loads apply in Service Load design only for checking serviceability under fatigue in structural steel.

When EQ loads are applied, Load Factor Design shall be used to analyze their effects.

2.6 Construction Materials

The following materials will be used for the bridge superstructure and foundation design:

- Steel girders – ASTM A992, Grade 50
- Steel bars and plates – ASTM A36
- Structural steel tubing - ASTM A500, Grade B
- Structural steel pipe – ASTM A501 or A53, Type E or S, Grade B
- Bolts for structural steel connections – ASTM A325
- Welding electrodes for structural steel – E70XX minimum
- Timber Decking Southern Pine #2 - allowable bending stress, $f_b = 1,300$ psi
- Timber Decking Southern Pine #2 - allowable shear stress, $f_v = 90$ psi
- Cast-In-Place Concrete Abutment and Wingwall design strength, $f'c = 3,500$ psi
- Yield Strength of reinforcing steel, $f_y = 60,000$ psi
The following assumptions were made for the bridge substructure and foundation elements:

- Allowable Soil Bearing Pressure = 4,000 psf (per 2007 CBC, Table 1804.2)
- Structural Backfill Unit Weight = 120pcf
- Active Earth Pressure = 35 pcf (unrestrained)
- Active Earth Pressure = 52.5 pcf (restrained)
- Passive Earth Pressure = 250 pcf
- Vehicle Surcharge = 200 psf

2.7 Coating System

The coating system for the steel on the bridge superstructure will consist of the following:

- Primer: ICI Devoe Bar-Rust 235 epoxy primer
- Top Coat: ICI Devoe Devthane 389 urethane topcoat (black)

2.8 Structural System

The bridge superstructure is comprised of six, hot-rolled steel wide flange W21x50 girders. Girder web bracing consists of W12x26 sections.

2.9 Deflections

Maximum calculated deflections for the W21 girders under HS25-44 live load conditions will exceed the recommended allowable deflection limits per AASHTO. This is considered to be acceptable given the low number of load and stress cycles that the bridge structure will experience over the service life. The deflection calculated for the girders is approximate L/285 which is greater than L/800, maximum live load deflection for a non-pedestrian bridge per AASHTO.

2.10 Foundation

Foundation elements for the bridge will consist of cast-in-place concrete abutments with a 12-inch thick backwall. The abutments will be constructed on grade, with dowel bars embedded with epoxy into the underlying rock. The dowels will be epoxy coated per ASTM A775.

Backfill for the bridge approaches will be retained by 12-inch thick wingwalls on both sides of the bridge.

Reinforcing steel will be placed 3 inches clear at the bottom of the abutments and wingwalls.
3. STRUCTURAL CALCULATIONS REVIEW SUMMARY

W&K has reviewed the structural calculations provided by the PG&E bridge fabricator’s engineer. The calculations for the design of the replacement bridge superstructure are in conformance with the design intent and criteria.

- **Girders:** Wide flange W21x50 girders are acceptable for use in the superstructure as the bending and shear stress capacity of the section is greater than the demand produced by the dead load plus truck loading per the load combinations noted in Section 2.6 above.
- **Splice Plates:** Steel flange and web splice plates and bolts for the W21 girders have adequate capacity for the loading conditions reviewed.
- **Bridge Decking:** 2”x4” treated timber is acceptable material for the bridge decking when used in edge loaded configuration per the sketches submitted. The timber has adequate capacity for the 10,000 lb wheel loading for shear and bending.

In our professional opinion, the replacement bridge superstructure has been designed based on sound engineering judgment, proper application of structural theory, and is in conformance with applicable code requirements. The structural design has been performed using the design criteria and materials of construction noted above.
Appendix
July 12, 2010

Re: Bridge Submittals

To Whom It May Concern:

This is certify that the attached bridge drawings (Camp Creek Bridge) with specifications as listed below will have an HS25-44 (45 ton) load capacity.

1. The bridge is designed in accordance with the 2002 AASHTO Standard Specification for Highway Bridges, 17th Edition with the following load criteria and exceptions.

2. The bridge design will be able to handle HS25-44 loads, based on bending moment and shear stress requirements. Deflection limitations recommended by AASHTO have not been taken into account, resulting in some deflection under loads larger than allowed by AASHTO (length in inches/800). Impact to the bridge has been estimated at 10% maximum based on the restriction that the bridge will have a 10 mph speed limit.

3. 40' overall length, with center to center bearing length of 38' maximum.

4. Axle loads: 10,000 lb (steering axle), 40,000 lb (driving axle), 40,000 lbs (trailer axle), with 14' spacing between the steering axle and driving axle, and a minimum of 14' spacing between the driving axle and the trailer axle.

5. Deck: ACQ treated southern yellow pine, 2" x 4" on edge, nail laminated.

Very truly yours,
E & M ENGINEERS AND SURVEYORS, P.C.

[Signature]

Allan R. Vanderpoel, P.E.
Project Engineer
ADM BRIDGE - CAMP CREEK BRIDGE FOR PASS GAS & ELECTRIC

40' LENGTH OVERALL; 39' CENTER TO CENTER BEARING POINTS

HS25.44 Loadings

Impact Limited to 1.10 by Speed Reduction

No Deflection Requirements

Grade 50 Steel

2.5" SPACING ON BEAMS

2.5" WOOD DECK ON EDGES

Dead Load

Inference Springing on Center - Effective Springing

Limited by 3.5" Wheel Load from Guardrail

Spring 50"/foot

Diaphragm 3"/foot

Wood Deck 3.5"/foot

\( \text{Span} = (39/8)(25\times60'\text{/ci}) \)

\( = 89.36'\text{/foot} \text{ or } 0.0595'\text{/foot} \)

DL Movement: \( \frac{wL^2}{8} = (0.0595\times\frac{39}{8})^2/8 = 16.2 \text{ foot kip} \)

Live Load

1/3 of 44 @ 38' (1.25)(414.34%) = 517.9 k

Impact = 1.1

Distribution factors: 3/4.5: 25/45: 0.555

Wheel Line factors: 1/3: 0.5

Factored LL: \( (517.9 \times 1.1 \times 0.555 \times 0.5) = 158.1 \text{ kip} \)
Load Factor Group I (AASHTO Table 3.22.1A)

\[
1.3[1.0 \text{ M} + 1.67 \text{ M}_2]\]

\[
= 1.3[1.0(16.2) + 1.67(158.1)]
\]

\[
= 364.3 \text{ kN}\text{m}
\]

**Section Required**

50 ksi Steel

\[
S = \frac{M}{f} = \frac{364.3 \text{ kN}\text{m} \times 12 \text{ in}}{50 \text{ ksi}}
\]

\[
= 87.4 \text{ in}^3
\]

Use W21 x 50

\[
94.5 \text{ in}^3 \cdot \frac{5_{xx}}{984 \text{ in}^4} - I_{xx}
\]

**Shear Check**

Dead Load: \((0.0895 \text{ kN}/\text{ft} \times \frac{38}{2}) = 1.7 \text{ k}\)

Live Load: \((1.25)(54.3 \text{ k})(1.1)(0.5) = 37.3 \text{ k}\)

Use W21 x 50

\[
T = \frac{39.0 \text{ k}}{0.380 \text{ in} \times 19.7 \text{ k}} = 5.2 \text{ ksi} < 12.0 \text{ ksi} \quad \text{OK}
Decking

2"x4" Decking on Edge
HS25-44 Loading
30" Spacing Between Stringers
Top Flange Width 6"

Wheel Load for HS25-44:
Axle Load 20k
Each Wheel Load 10,000 lbs

Effective Span

Distance: 30" + 6" = 24"
S = 24" + 6"/2 = 18"

Check S = 24" + 3½" = 27½" ← use

Determine Effective Deck Section

- In the direction of the deck span bL

\[ bL = \sqrt{0.025 \cdot p} \]

\[ = \sqrt{0.025 \times 10000} \]

\[ = 15.81" \]

- Normal to Deck Span

\[ bd = 15 + t \]

\[ = 15 + 3.5" \]

\[ = 18.5" \leq s \]

Section Properties

\[ A = bdx t = (18.5 \times 3.5) \quad (64.75 \text{ in}^2) \]

\[ S_1 = \frac{bdx^2}{6} = \frac{(18.5 \times 3.5)^2}{6} \quad (37.8 \text{ in}^3) \]

\[ I_1 = \frac{bdxt^3}{12} = \frac{(18.5 \times 3.5)^3}{12} \quad (66.1 \text{ in}^4) \]
CALCULATE DEAD LOAD, LIVE LOAD, MOMENT & SHEAR

DEAD LOAD = DECK (FOR 1' AT 18.5'' BD)

\[
3'' (\frac{2}{12}) \times 18.5' 	imes 60'' \times (5.00'' \times 144) = 1.87 \text{ lb/in}
\]

\[
M_{DL} = \frac{W_{DL}}{l} \times (S - e) = \frac{(1.87 \text{ lb/in} \times 27.5'')^2}{8} = 177 \text{ lb-in}
\]

\[
V_{DL} = W_{DL} \left( \frac{S - e}{l} \right) = \left( 1.87 \text{ lb/in} \times \frac{27.5''}{2} \right) \cdot 19 = 19 \text{ lbs}
\]

LIVE LOAD (FOR 15,25'-44 WHEEL) STRESS

\[
w = 10,000'' / 15.81' = 632.5 \text{ lb/in}
\]

\[
M_{UL} = R_{L} = \left( \frac{S - 15.81''}{2} \right) + \frac{1}{2} l \left( \frac{15.81''}{2} \right)
\]

\[
M_{UL} = 5,000 \left( \frac{27.5 - 15.81}{2} \right) + \frac{1}{2} (5,000)(27.5) = 48,975 \text{ in-lbs}
\]

\[
V_{UL} = R_{L} = 10,000 \left( \frac{27.5 + 8.19}{27.5} \right)
\]

\[
V_{UL} = 5851 \text{ lbs}
\]

DEAD LOAD STRESS

Continuously over 2 spans

\[
M_{st} = \frac{(0.8)(M_{tot})}{S_x} = \frac{(0.8)(17.1 \text{ psi})}{37.6''^3} = 3.7 \text{ psi}
\]

\[
S_{shear} = (3/2)(19 \text{ lbs}) / 64.75 \text{ in}^2 = 0.4 \text{ psi}
\]

LIVE LOAD STRESS

\[
M_{tot} = (0.8)(48,975 \text{ in-lbs}) / 37.8 \text{ in}^3 = 1037 \text{ psi}
\]

\[
S_{shear} = (3/2)(5851 \text{ lbs}) / 64.75 \text{ in}^2 = 136 \text{ psi}
\]

Total Stress

\[
M_{tot} = DL + LL = 3.7 \text{ psi} + 1037 \text{ psi} = 1041 \text{ psi}
\]

\[
S_{tot} = DL + LL = 0.4 \text{ psi} + 136 \text{ psi} = 136 \text{ psi}
\]
Allowable Stress of Southern Pine 4 x 4 Grade

\[ F_{fy} = 1300 \text{ psi} \quad C_f = 1.15 \quad C_m = 0.85 \]

\[ F_{fy} = (1300 \text{ psi})(1.15)(0.85) = 1270 \text{ psi} \]

1270 psi > 1041 psi  OK

\[ F_{uy} = 90 \text{ psi} \quad C_m = 0.97 \quad C_{14} = 1.67 \]

\[ F_{uy} = (90 \text{ psi})(0.97)(1.67) = 145 \text{ psi} \]

145 psi > 130 psi  OK
Camp Creek 40' Bridge for Pacific Gas and Electric

Additional Information

1. W21×50 Girder Bracing

   * Diaphragm Bracing with Flange Spacing Provided 5' from each end and 18' from each end.
   * Deck Cups installed every 3.9' on each girder (one side) securing deck to girders -- providing compressive stress bracing.

Conservative factor of both sides of girders braced every 7.0'. The allowable compressive stress from the attached program is 65.4 ksi.

Working Stress:

\[
\text{Moment (DL+LL)} = 16,200 \text{ kips ft} + 158.1 \text{ kips ft} = 173,488 \text{ kips ft}
\]

\[
\text{Tensile/Compressive Stress} = \frac{N/S}{A} = \frac{173,488 \times 12 \text{ in}^2}{94.5 \text{ in}^2} = 22.0 \text{ kpsi}
\]

65.4 ksi > 22.0 kpsi (OK)
FOR USE ON STEEL BEAMS WITH NO PLATES

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<th>AD</th>
<th>Y</th>
<th>AY^2</th>
<th>I0</th>
<th>I</th>
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<td>(10.15)</td>
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C.G. (TENS) = AD/AREA = 10.41
C.G. (COMP) = HGHT-CG = 10.42
Sx (TENS) = I/CG(TENS) = 92.56
Sx (COMP) = I/CG(COMP) = 92.56
2. Actual Deflection

\[ \Delta_{\text{max at center}} = \frac{6.49 \times 10^{-6}}{EI} \]


\[ \Delta_{\text{max}} = \frac{(6.49 \times 10^{-6})}{(2 \times \text{wheel load})(1.10 \text{ impact}) \left( \frac{27 \times 10^{4} \text{ (lb)}(900 \text{ in})}{(3 \times 250)} \right)} \]

\[ \Delta_{\text{max}} = 0.033 '' \]
3. Splice Plate - Top Flange Connection Plate

Use 1/2" x 7" Plate = 3.50 in.²

Area of Flange: (6.530' x 5.35') = 3.494 in.² < 3.50 in.²

Use 2 rows with 5 bolts (3/4" Dia) each from 7/12/2010 Calculation Sheet 2 of 7

Sprayed Shot Design
B7 No Connec., 1980

Top Flange Cover Plates to Equal Size of Bottom Flange Cover Plate
ADM 40' Bridge Splice

Full Stringer Connection

W21x50 Beams 38' Span

I Beam: 984 in^4
S8 Beam: 94.5 in^3

L = 20.83 in

A Forbes = (0.530)(0.525) = 349.4 in^2
A web = (19.76)(0.360) = 7.5088 in^2

t = 0.530 in
	w = 0.360 in

Flange Width = 6530 in Each Side = 3,275 in

Determine Maximum Moment

Mll (from Beam Calculation): 158.1 kft
Mll (from Beam Calculation): 158.1 kft

Total M = 174.3 kft
Flange Connection - Bridge Splice

- 174.3 kN

Force to Be Taken by Flange Bolts

Timoshenko Formula: \( F = \frac{M_0}{z} \cdot M \left( \frac{w}{a} \right) \left( \frac{d}{l} \right) \)

\( d = \frac{20.88 - \left( \frac{0.535}{2} \right)^2}{2} = 10.15'' \)

\( F = \frac{174.3 \, \text{kN} \left( 12 \, \text{in-ft} \right) \left( 0.535 \right) \left( 0.530 \right) \left( 10.15 \right)}{934 \, \text{in}^4} = 75.4 \, \text{kN} \)

Check for Absolute Force from Beam Stresses
(Should be Summed Components of F)

\( F = (27 \, \text{kN}) \left( 0.535 \right) \left( 0.530 \right) = 94.3 \, \text{kN} \)

Use A325 Bolts, 2 Rows, 3/4'' Diameter, Allowable Force = 9.3 kN

\( \frac{75.4 \, \text{kN}}{9.3 \, \text{kN/bolt}} = 8.1 \, \text{bolts} \rightarrow \text{use 10 bolts (conservatively)} \)

2 Rows with 5 Bolts each

C to C Bolt Spacing = 3d = 3(3/4) = 2.25'' use 2.5''

Distance to Edge = 1.5d = 1.5(3/4) = 1.125'' use 1.5''

or \( \frac{2P}{F_{ax}} = \frac{2(9.3 \, \text{kN})}{(58)(75)} = 0.42 \)

0.34'' pull away
Size Flange Connector Plates

**Bottom Flange Plane** \((1\frac{1}{2}'' \times 7'')\):
\[
3.50 \text{ in}^2 > 3.494 \text{ in}^2, \quad \text{OK}
\]

**Top Flange Plane** \((2\frac{1}{4}'' \times 2.75'')\):
\[
2.06 \text{ in}^2 < 3.494 \text{ in}^2
\]

Flat Portion
\[
\frac{(0.930'') - 2(0.75'')}{2} = 2.39''
\]

**Top Flange (Each Side)**
- 1.5''
- 2.0''
- 1.5''

Use 2.75'' x 2.0'' (3/4'' thick)

**Bottom Flanges**

Optional - Use 7'' x 20'' @ 1/2'' thickness for both top and bottom flanges.
Check Bending Stress

\[ f_{p} = \text{Allowable Bending Stress} = 1.5 \times 1.8(55 \text{ ksi}) = 87 \text{ ksi} \]

\[ A_p = \text{Bending Area} = (0.75 \text{ in})(0.535 \text{ in}) = 0.401 \text{ in}^2 \]

\[ \text{Bending Stress} = \frac{754 \text{ k}}{(10 \text{ bolts} \times 401 \text{ in}^2)} = 18.8 \text{ ksi} \leq 87 \text{ ksi} \quad \text{OK} \]

Tension Area of Plate

\[ = (0.5 \text{ in} \times 7 \text{ in} - 2 \text{ holes} = \frac{14}{16} \text{ in}^2 = 2.62 \text{ m}^2 \]

Maximum Allowable Tensile Stress on Net Section: (5)(58) = 29 ksi

Maximum Allowable Load Based on Net Section

\[ = (29 \text{ ksi} \times 2.62 \text{ in}^2) = 76 \text{ k} > 75.4 \text{ k} \quad \text{OK} \]

Maximum Tensile Stress on Gross Section: \( f_e = 60 \text{ ksi} \)

\[ = (60 \text{ ksi}) \times (0.5 \text{ in})(0.75 \text{ in}) = 21.6 \text{ ksi} \]

Maximum Allowable Load Based on Gross Section

\[ = (0.5 \text{ in})(0.75 \text{ in}) \times 75.6 \text{ k} = 75.6 \text{ k} \geq 75.4 \text{ k} \quad \text{OK} \]
**Web Connection**

From *Structural Steel Design*, McConnie & P. A. 75:

\[ A_p = \frac{h}{c_l} \]

\[ d = 9" \text{ as specified above} \]

\[ A_p_{required} = \frac{0.380^\circ (19.75)^3}{(4 \times 9\text{"})^2} = 0.03 \text{ in}^2 \text{ required} \]

**Area of Moment Plate**: 2" + 3" + 1½" = 6.5"

**Thickness Required**: \( x \) = 0.99"

**Use one 1" thick plate or two ½" thick plates**

**Number of Bolts**: \[ \frac{A_p}{h} = \frac{0.03}{12} = 0.0025 \text{ in}^2 \text{ per bolt} \]

**Number of Bolts**: \( \frac{(12)}{(19.75)} \times (9.03 \text{ in}^2) - 7.98 \text{ bolts} \)

**or use two plates (1½" thick) one on each side or plate**

**Use 3½ bolts**

**Number of Bolts**: \[ \frac{(12)}{(19.75)} \times (9.03 \text{ in}^2) = 3.9 \text{ bolts} \]

**PER SIDE**

**Use 4 bolts**
Check for Middle Section of Plate

A. Shear = \((10" - 6.5" - 6.5" \times 3\) in\(^2\) = 3 in\(^2\)

Maximum Shear Value = \(3 \text{ in}^2 \times 17 \text{ ksi} = 30 \text{ ksi}\)

Maximum Shear Value on HS25 Vehicle @ 40 ft:

\[(1.25 \times 54.3 \times 1.1 \times 0.555 \times 0.8) \times 20.7 \text{ ksi}\]

\[
\text{Conversion to HS26}
\]

Thus Shear Plates are Adequate

Number of Beams Required

With two 1/2" Plates:

\[
\frac{20.7 \text{ ksi}}{33.0 \text{ ksi/beam}} = 0.60 \text{ Beams}
\]

Use 2 Beams
Elevation View

Spacing Same as Bottom Flange

Top Flange Bolting

1½" 2½" Space 1½" 2½" Space 1½"

Bottom Flange Bolting

All Bolts 3/4" A325 with Normal Holes Drilled to 3/16" Greater Than Bolt Dia. Plates to be A36 (Minimum) Steel

Project: ADM Welding
Subject: 40' Beam Splice
Original by: [Signature] Date: [Date] Check by: [Signature] Date: [Date]
Elevation View

Top & Bottom Flange Bolting

All Bolts 3/4" A325 with Normal Holes Drilled to be 3/4"Grease Free Bolt Dia.
Plates 12 Be A36 (Minimum) Steel
Notes:
* Railing/decking not shown for clarity

See main bearing stringer splice detail and steel deck panel drawings.
Item A: 12 - W21" @ 50# @ 20' A992-Gr.50 bearing stringers.

Item B: 16 - W12" @ 26# @ 2'5-5/8" diaphragm braces

Item C: 4 - W12" @ 26# @ 2'4-5/8" diaphragm braces, cut in half and weld splice plate "E" to each half

Item D: 3/8" x 23-7/8" x 14'11" overall width end plates, both ends

Item E: 8 - 1/2" x 8" x 13-1/4" splice plates with 8 - 3/4" x 2" bolts per splice

Item F: 4 - 3" x 3" x 3/8" x 18-3/8" splice angles with 4 - 3/4" x 2" bolts per splice
ADM Welding & Fabrication
37 Broadhead Street Warren, PA 16365
Phone: 814-723-7227 Fax: 814-723-7326

Pacific Gas & Electric - Camp Creek Road
40' Modular Bridge - Side View

4' x 4' x 1/4' square tube
top rail and guide posts

C6 & B2 #
channel backing

See railing splice
detail below

See main bearing
stringer splice detail

W21' x 50# x 20'

W21' x 50# x 20'

Railing splice detail

6' channel backing splice detail

3' x 2' x 1/4' angle

11/16" holes for
5/8" x 1-1/2"
galvanized bolt
with nut

3-1/2"
2"
1"

2' x 2' x 1/4' angle

11/16" holes for
5/8" x 1-1/2"
galvanized bolt
with nut
4' square tube posts and top rail

2' x 4' treated Southern Yellow Pine decking

4' x 4' x 9-7/8' square tube offset blocks spaced 5' apart

W12 @ 26# diaphragm

3/8' beam flange stiffeners located at all diaphragm rows

Deck clip

Notes:
* 3/8' end plate not shown for clarity
* Deck clip is 12 gauge galvanized steel
* 3/16' holes for 16D galvanized spiral rail located 1' from top of clip and 1' in from edge of clip
* Deck clips need to be staggered, as shown above, on beam flanges to prohibit lateral movement in both directions
* Drawings show inclusion of 6' guide rail reinforcement channel to accept standard galvanized 'W-rail' (by others). If 6' channel/W-rail option is not selected, the 6' channel will be omitted and the 4' square tube top rail will be lowered to a finished height of 2'7' above top deck surface (4' square tube guide posts will be 3' shorter).
Note: Drawings show inclusion of 6" guide rail, reinforcement channel to accept standard galvanized "W-rail" (by others). If 6" channel/W-rail option is not selected, the 6" channel will be omitted and the 4" square tube top rail will be lowered to a finished height of 27" above top deck surface (4" square tube guide posts will be 3' shorter).
Elevation View

1/2" x 7" x 26" plate

(2) 1/2" x 14" x 16" plates

1/2" x 7" x 26" plate

Note: All bolts are 3/4" ASTM A325 hot dip galvanized with DH nut

Top and Bottom Flange Bolting

1/2" thick x 7" x 26" plate
ADM Welding & Fabrication
37 Broadhead Street Warren, PA 16365
Phone: 814-723-7227 Fax: 814-723-7326

Pacific Gas & Electric - Camp Creek Road
40' Modular Bridge
Steel Diamond Plate Center Panel Detail Sheet

27-1/2' clear opening width between square tubes

3-1/2" x 3-1/2" x 1/4" x 14' OAL square tubes

3-1/2" x 3-1/2" x 1/4" x 14' OAL square tubes

Center Panel End View

1/4" x 3-1/2" x 27'
Flat bar end plate not shown for clarity

Center panel sides:
3-1/2" x 3-1/2" x 1/4" x 14' angle

Center panel sides:
3-1/2" x 3-1/2" x 1/4" x 14' angle

Note: Center panel top plate is 3/16' diamond plate

Cut away area details ribs on underside of panel.
Ribs are 3/8" x 3' flat bar on 5' nominal centers
(Ribs spaced to miss splice bolt heads) x 14' ±
Attachment 4

Permits and Authorizations
This memo releases to construction the subject project. Included herein are relevant permits/authorizations or references thereto as appropriate, as well as recommended Company Best Management Practices (BMP) and avoidance and minimization measures.

Associated with these permit/authorizations are avoidance and minimization measures and permit conditions that must be adhered to in order to remain in compliance with Project issued permits. Attached you will find copies of the Regional Water Quality Control Board CWA 401 permit (WDID #5A04CR00191), U. S. Army Corps of Engineers Nationwide Permit 14 (non-reporting), California Dept. of Fish and Game Streambed Alteration Agreement (Notification No. 1600-2010-0092-R2), and Plumas National Forest Service authorization; all conditions listed in these permits/authorizations must be strictly enforced for the duration of the Project.

Compliance with permit/authorization conditions involves (but not limited to) the following action items for PG&E:

**RWQCB CWA 401 Certification**

1. Notification to RWQCB in writing at least seven-days prior to initiation of in-water Project activities; EP&P will make this notification.

2. Pacific Gas & Electric Company shall perform surface water sampling: 1) When performing any in-water work; 2) In the event that project activities result in any materials reaching surface waters or; 3) When any activities result in the creation of a visible plume in surface waters. The following monitoring shall be conducted immediately upstream out of the influence of the project and 300 feet downstream of the active work area. Sampling results shall be submitted to this office within two weeks of initiation of sampling and every two weeks thereafter. The sampling frequency may be modified for certain projects with written permission from the Central Valley Water Board.

3. In the event that Project activities result in an inadvertent fill of excavated material that exceeds permit turbidity criteria or a hazardous materials spill into surface waters occurs, the RWQCB is to be immediately notified; event reporting will be transmitted to the Board as soon as possible.

4. Notification to RWQCB in writing within seven-days of Project completion or suspension of activities for any extended duration. Project management and or the construction supervisor are to notify EP&P of anticipated completion/suspension dates so that EP&P can make timely notification.
5. A copy of the CWA 401 Certification (RWQCB Permit) must be kept on the job site at all times throughout construction. All personnel (PG&E as well as all contractors) performing work on the proposed project shall be aware of this permit and trained on its conditions.

6. RWQCB requires that all temporarily affected areas of the project be returned to pre-project contours and condition upon completion of construction activities.

Plumas National Forest Authorization

1. Forest requests advanced notification (one week) of Project activity initiation on Federal Lands; EP&P or Project Manager will make this notification.

2. Construction supervisor/foreman is to check-in daily (while working on Federal Land) with Forest office for updated fire weather conditions.

CDFG Streambed Alteration Agreement (1602 Permit)

1. PG&E or its contractors shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to DFG personnel, or personnel from another state, federal, or local agency upon request.

2. PG&E shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of PG&E, including but not limited to contractors, subcontractors, inspectors, and monitors.

3. PG&E shall notify DFG if PG&E determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, DFG shall contact PG&E to resolve any conflict.

4. The notification, together with all supporting documents submitted with the notification, is hereby incorporated into this agreement to describe the location and features of the proposed project. PG&E agrees that all work shall be done as described in the notification and supporting documents, incorporating all project modifications, wildlife resource protection features, mitigation measures, and provisions as described in this agreement. Where apparent conflicts exist between the notification and the provisions listed in this agreement, PG&E shall comply with the provisions listed in this agreement. PG&E further agrees to notify DFG of any modifications made to the project plans submitted to DFG. At the discretion of DFG, this agreement will be amended to accommodate modifications to the project plans submitted to DFG and/or new project activities.

5. The time period for completing the work within the stream zone shall be restricted to periods of low stream flow and dry weather. Construction activities shall be timed with awareness of precipitation forecasts and likely increases in stream flow. Construction activities within the stream zone shall cease until all reasonable erosion control measures, inside and outside of the stream zone, have been implemented prior to all storm events. Revegetation, restoration and erosion control work is not confined to this time period.

6. If work in the flowing portion of the stream is unavoidable, the entire stream flow shall be diverted around or through the work area during the excavation and/or construction operations. Stream flow shall be diverted using gravity flow through temporary culverts/pipes or pumped around the work site with the use of hoses. When any dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain aquatic life below the dam pursuant to Fish and Game Code section 5937. The temperature of the diverted water will not be allowed to become elevated such that it may be deleterious to aquatic organisms downstream. The dissolved oxygen concentration of the diverted water will not be allowed to drop to a level that may be deleterious to downstream aquatic life. Any temporary dam or other artificial
obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel which will cause little or no siltation.

7. PG&E shall notify DFG within two working days of beginning work within the stream zone of the unnamed tributary to the North Fork of the Feather River. Notification shall be submitted as instructed in Contact Information section of Agreement. Email notification is preferred.

8. Upon completion of the project activities described in this agreement, the work area within the stream zone shall be digitally photographed. Photographs shall be submitted to DFG within two days of completion. Photographs and project commencement notification shall be submitted as instructed in Contact Information section of the Agreement. Email submittal is preferred.

Environmental Avoidance and Minimization Measures for the Proposed Project
As the project area contains sensitive environmental resources, this letter also includes the following avoidance and minimization measures that must be adhered to in order to avoid adverse impact to identified biological and potential cultural resources within the project work area:

Biological Resources
The following Biological avoidance and minimization measures (*many of which are permit conditions*) are proposed to avoid and or minimize potential project impacts on native botanical, fish, and wildlife resources within the project area:

General Measures

- A Company biologist should provide biological awareness training to all construction personnel prior to construction. The training should include descriptions of sensitive species and a discussion of conservation measures that should be implemented. Contact Biologist Ron Critchlow at (530) 896-4265 office, (925) 719-3078 mobile to arrange the tailboard.

- A limited operating period (LOP) in the late summer and fall months is recommended. A fall LOP will provide the following benefits:
  - Project construction would avoid the nesting season of most birds. If the avian nesting season cannot be avoided, then pre-construction nesting surveys shall be conducted by a Company biologist.
  - Project construction would avoid the breeding season of foothill yellow-legged frog.
  - Project construction would take place when known special-status plant species are dormant, and are likely to better-withstand Project activities.
  - Construction would coincide with low-flow, low-precipitation periods.

- Erosion, sediment, material stockpile, and dust control Best Management Practices (BMPs) will be employed on site.

- Noxious weed protection measures will be used. This may involve some or all of the following measures:
  - washing equipment before it is brought onsite;
  - using certified weed-free fill and rock for construction;
  - using weed-free materials for erosion and sediment control;
  - and avoiding the known areas with weeds for staging.

- Measures to avoid hazardous spills into waterways will be implemented. This includes refueling in upland areas away from water, maintaining equipment to prevent leaks, and having spill kits available on-site.

- Cement and concrete used in construction will be properly contained and allowed to cure thoroughly before introducing to the water column.
• Measures will be taken to protect existing riparian vegetation and stream banks in the vicinity of the construction site (although the road currently crosses through a large and apparently stable bedrock cascade feature). The smallest amount of disturbance footprint and vegetation removal needed to complete work will be used.

• Fire prevention measures will be used in this area.

• All heavy equipment, vehicles, and construction work will be confined to existing or designated access roads, road shoulders, and disturbed or designated areas, which should be clearly marked with flagging or fencing prior to construction.

• Properly fence and/or cover unattended, open trenches, or excavations to prevent wildlife entrapment. Provide a soil escape ramp to facilitate the escape of any trapped wildlife.

• Return work areas to pre-existing contours and conditions upon completion of work. When work is completed, evaluate and perform necessary restoration work (including revegetation and soil stabilization).

• In accordance with federal and California State Endangered Species Acts, immediately report all observations of listed species to PG&E and take care not to take or harass the species. A PG&E representative will inform appropriate federal and State resource agency personnel of the sighting.

• Properly contain and remove from the Project area all trash and waste items generated by construction or crew activities.

• Permit no pets, campfires, or firearms within the Project area.

Foothill yellow-legged frog
• A pre-construction survey for foothill yellow-legged frog should be conducted prior to any instream work. If these frogs are present in the Project Area or immediately downstream, frogs should be relocated upstream of the site by a qualified biologist in order to minimize the risk of injury or harassment to foothill yellow-legged frog.

• The new bridge structure will not impede the up- and downstream movements of foothill yellow-legged frog. All construction debris and previously placed fill for emergency access across waterway will be removed from the streambed.

Cultural Resources
The following measures must be adhered to avoid adverse impacts to cultural resources (unidentified):

• If artifacts or human remains are discovered during project activities halt work immediately, and contact James Nelson, Cultural Resources Specialist at (530) 894-4672 office, (530) 228-3152 mobile.

• PG&E personnel and our contractors should not disturb or collect any artifacts.

Land Rights
No additional permanent or temporary land rights for the subject project are required. All work will take place on Federal Lands for which authorization to proceed has been granted.

Implementation and adherence to the above noted permits (including identified conditions) and required measures will ensure that the project does not adversely impact the environment. Crews are responsible for implementing all measures/recommendations listed above as well as those noted in each of the permits/authorizations acquired for this work. A copy of this letter and all attached
permits/authorization documents are to be included with the work foreman's job packet and kept on-site throughout the duration of the project.

Please contact me with any questions.

JESUS VISCARRA

JRViscarra (751-4263): jev

cc:    E. Frantz, Pacific Gas and Electric Company
     R. Critchlow, Pacific Gas and Electric Company
     J. Nelson, Pacific Gas and Electric Company
7 July 2010

Mr. Jesus Viscarra
c/o Pacific Gas & Electric Company
350 Salem Street
Chico, CA 95928

CLEAN WATER ACT §401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION FOR DISCHARGE OF DREDGED AND/OR FILL MATERIALS FOR THE CAMP CREEK MEETING ROAD BRIDGE REPLACEMENT (WDID#5A04CR00191), PULGA, BUTTE COUNTY

ACTION:

1. ☐ Order for Standard Certification
2. ☐ Order for Technically-conditioned Certification
3. ☐ Order for Denial of Certification

WATER QUALITY CERTIFICATION STANDARD CONDITIONS:

1. This certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to §13330 of the California Water Code and §3867 of Title 23 of the California Code of Regulations (23 CCR).

2. This certification action is not intended and shall not be construed to apply to any discharge from 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 23 CCR subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.

3. The validity of any non-denial certification action shall be conditioned upon total payment of the full fee required under 23 CCR §3833, unless otherwise stated in writing by the certifying agency.

4. Certification is valid for the duration of the described project. Pacific Gas & Electric Company shall notify the Central Valley Water Board in writing within 7 days of project completion.
ADDITIONAL TECHNICALLY CONDITIONED CERTIFICATION CONDITIONS:

In addition to the four standard conditions, Pacific Gas & Electric Company shall satisfy the following:

1. Pacific Gas & Electric Company shall notify the Central Valley Water Board in writing 7 days in advance of the start of any in-water activities.

2. Except for activities permitted by the U.S. Army Corps under §404 of the Clean Water Act, soil, silt, or other organic materials shall not be placed where such materials could pass into surface water or surface water drainage courses.

3. All areas disturbed by project activities shall be protected from washout or erosion.

4. Pacific Gas & Electric Company shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on the proposed project shall be adequately informed and trained regarding the conditions of this Certification.

5. An effective combination of erosion and sediment control Best Management Practices (BMPs) must be implemented and adequately working during all phases of construction.

6. All temporarily affected areas will be restored to pre-construction contours and conditions upon completion of construction activities.

7. Pacific Gas & Electric Company shall perform surface water sampling: 1) When performing any in-water work; 2) In the event that project activities result in any materials reaching surface waters or; 3) When any activities result in the creation of a visible plume in surface waters. The following monitoring shall be conducted immediately upstream out of the influence of the project and 300 feet downstream of the active work area. Sampling results shall be submitted to this office within two weeks of initiation of sampling and every two weeks thereafter. The sampling frequency may be modified for certain projects with written permission from the Central Valley Water Board.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Type of Sample</th>
<th>Frequency of Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbidity</td>
<td>NTU</td>
<td>Grab</td>
<td>Every 4 hours during in water work</td>
</tr>
<tr>
<td>Settleable Material</td>
<td>ml/l</td>
<td>Grab</td>
<td>Same as above.</td>
</tr>
<tr>
<td>Visible construction related pollutants</td>
<td>Observations</td>
<td>Visible Inspections</td>
<td>Continuous throughout the construction period</td>
</tr>
</tbody>
</table>
8. Activities shall not cause turbidity increases in surface water to exceed:

(a) where natural turbidity is less than 1 Nephelometric Turbidity Units (NTUs), controllable factors shall not cause downstream turbidity to exceed 2 NTU;
(b) where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU;
(c) where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent;
(d) where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs;
(e) where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

Except that these limits will be eased during in-water working periods to allow a turbidity increase of 15 NTU over background turbidity as measured in surface waters 300 feet downstream from the working area. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected. Averaging periods may only be assessed by prior permission of the Central Valley Water Board.

9. Activities shall not cause settleable matter to exceed 0.1 mil in surface waters as measured in surface waters 300 feet downstream from the project.

10. The discharge of petroleum products or other excavated materials to surface water is prohibited. Activities shall not cause visible oil, grease, or foam in the work area or downstream. Pacific Gas & Electric Company shall notify the Central Valley Water Board immediately of any spill of petroleum products or other organic or earthen materials.

11. Pacific Gas & Electric Company shall notify the Central Valley Water Board immediately if the above criteria for turbidity, settleable matter, oil/grease, or foam are exceeded.

12. Pacific Gas & Electric Company shall comply with all Department of Fish and Game 1600 requirements for the project.

13. Pacific Gas & Electric Company must obtain coverage under the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board for any project disturbing an area of 1 acre or greater.

14. The Conditions in this water quality certification are based on the information in the attached "Project Information." If the information in the attached Project Information is modified or the project changes, this water quality certification is no longer valid until amended by the Central Valley Water Board.

15. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under State law and section 401 (d) of the federal Clean Water Act. The applicability of any State law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to ensure compliance into this Order.
a. If Pacific Gas & Electric Company or a duly authorized representative of the project fails or refuses to furnish technical or monitoring reports, as required under this Order, or falsifies any information provided in the monitoring reports, the applicant is subject to civil, for each day of violation, or criminal liability.

b. In response to a suspected violation of any condition of this Order, the Central Valley Water Board may require Pacific Gas & Electric Company to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate, provided that the burden, including cost of the reports, shall be in reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

c. Pacific Gas & Electric Company shall allow the staff(s) of the Central Valley Water Board, or an authorized representative(s), upon the presentation of credentials and other documents, as may be required by law, to enter the project premises for inspection, including taking photographs and securing copies of project-related records, for the purpose of assuring compliance with this certification and determining the ecological success of the project.

ADDITIONAL STORM WATER QUALITY CONDITIONS:

Pacific Gas & Electric Company shall also satisfy the following additional storm water quality conditions:

1. During the construction phase, Pacific Gas & Electric Company must employ strategies to minimize erosion and the introduction of pollutants into storm water runoff. These strategies must include the following:

   (a) the Storm Water Pollution Prevention Plan (SWPPP) must be prepared during the project planning and design phases and before construction;

   (b) an effective combination of erosion and sediment control Best Management Practices (BMPs) must be implemented and adequately working prior to the rainy season and during all phases of construction.

2. Pacific Gas & Electric Company must minimize the short and long-term impacts on receiving water quality from the Camp Creek Meeting Road Bridge Replacement Project by implementing the following post-construction storm water management practices:

   (a) minimize the amount of impervious surface;

   (b) reduce peak runoff flows;

   (c) provide treatment BMPs to reduce pollutants in runoff;

   (d) ensure existing waters of the State (e.g., wetlands, vernal pools, or creeks) are not used as pollutant source controls and/or treatment controls;

   (e) preserve and, where possible, create or restore areas that provide important water quality benefits, such as riparian corridors, wetlands, and buffer zones;
(f) limit disturbances of natural water bodies and natural drainage systems caused by development (including development of roads, highways, and bridges);

(g) use existing drainage master plans or studies to estimate increases in pollutant loads and flows resulting from projected future development and require incorporation of structural and non-structural BMPs to mitigate the projected pollutant load increases in surface water runoff;

(h) identify and avoid development in areas that are particularly susceptible to erosion and sediment loss, or establish development guidance that protects areas from erosion/sediment loss;

(i) control post-development peak storm water run-off discharge rates and velocities to prevent or reduce downstream erosion, and to protect stream habitat.

3. Pacific Gas & Electric Company must ensure that all development within the project provides verification of maintenance provisions for post-construction structural and treatment control BMPs. Verification shall include one or more of the following, as applicable:

(a) the developer’s signed statement accepting responsibility for maintenance until the maintenance responsibility is legally transferred to another party; or

(b) written conditions in the sales or lease agreement that require the recipient to assume responsibility for maintenance; or

(c) written text in project conditions, covenants and restrictions for residential properties assigning maintenance responsibilities to a homeowner’s association, or other appropriate group, for maintenance of structural and treatment control BMPs; or

(d) any other legally enforceable agreement that assigns responsibility for storm water BMP maintenance.

REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:

Scott A. Zaitz, R.E.H.S., Redding Branch Office, 415 Knollcrest Drive, Suite 100, Redding, California 96002, szaitz@waterboards.ca.gov, (530) 224-4784

WATER QUALITY CERTIFICATION:

I hereby issue an order certifying that any discharge from Pacific Gas & Electric Company, Camp Creek Meeting Road Bridge Replacement Project (WDID# 5A04CR00191) will comply with the applicable provisions of §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") of the Clean Water Act. This discharge is also regulated under State Water Resources Control Board Water Quality Order No. 2003-0017 DWQ "Statewide General Waste Discharge Requirements For Dredged Or Fill Discharges That Have Received State Water Quality Certification (General WDRs)".
Except insofar as may be modified by any preceding conditions, all certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with Pacific Gas & Electric Company's project description and the attached Project Information Sheet, and (b) compliance with all applicable requirements of the Regional Water Quality Control Board's Water Quality Control Plan (Basin Plan).

[Signature]

Executive Officer

cc: Mr. Brian Vierra, U.S. Army Corps of Engineers, Sacramento
U.S. Fish and Wildlife Service, Sacramento
Department of Fish and Game, Region 2, Rancho Cordova
Mr. Bill Jennings, CALSPAN, Stockton
Mr. Jim Sherar, GANDA, Auburn

cc by email: Mr. Dave Smith, U.S. EPA, Region 9, San Francisco
Mr. Bill Orme, SWRCB, Certification Unit, Sacramento
PROJECT INFORMATION

Application Date: 7 June 2010

Applicant: Pacific Gas & Electric Company, Attn: Jesus Viscarra

Applicant Representatives: GANDA, Attn: Jim Sherar, 435 Lincoln Way, Auburn 95603

Project Name: Camp Creek Meeting Road Bridge Replacement Project

Application Number: WDID No. 5A04CR00191

U.S. Army Corps File Number: Non-Reporting Nationwide Permit No. 14 (Linear Transportation Project)

Type of Project: Camp Creek Meeting Road Bridge Replacement

Project Location: Section 10, Township 23 North, Range 05 East, MDB&M. Latitude: 39°05’28" and Longitude: -121°23’58"

County: Butte County

Receiving Water(s) (hydrologic unit): Unnamed Stream, which is tributary to North Fork of the Feather River. Feather River Hydrologic Unit-North Fork Feather Hydrologic Area No. 518.43

Water Body Type: Streambed

Designated Beneficial Uses: The Basin Plan for the Central Valley Water Board has designated beneficial uses for surface and ground waters within the region. Beneficial uses that could be impacted by the project include: Municipal and Domestic Water Supply (MUN); Industrial Supply (IND); Hydropower Generation (POW); Groundwater Recharge, Water Contact Recreation (REC-1); Non-Contact Water Recreation (REC-2); Cold Freshwater Habitat (COLD); Cold Freshwater Spawning (SPWN); and Wildlife Habitat (WILD).

Project Description (purpose/goal): The purpose of the Camp Creek Meeting Road Bridge Replacement Project is to remove the emergency culverts and fill, and replace this bridge at its previous location. The destroyed wooden bridge will be replaced with a non-flammable steel frame bridge.

Preliminary Water Quality Concerns: Construction activities may impact surface waters with increased turbidity and settleable matter.

Proposed Mitigation to Address Concerns: Pacific Gas & Electric Company will implement Best Management Practices (BMPs) to control sedimentation and erosion. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of construction activities. Pacific Gas & Electric Company will conduct turbidity and settleable matter testing during in-water work, stopping work if Basin Plan criteria are exceeded or are observed.
Fill/Excavation Area: Project implementation will temporarily impact 0.017 acres of un-vegetated streambed.

Dredge Volume: Not Applicable

U.S. Army Corps of Engineers Permit Number: Nationwide Permit # 14

Department of Fish and Game Streambed Alteration Agreement: Pacific Gas & Electric Company applied for a Streambed Alteration Agreement on May 2010. Agreement # 1600-2010-0092-R2.

Possible Listed Species: Not Applicable

Status of CEQA Compliance: Butte County Department of Public Works signed a Notice of Exemption 17 March 2010 approving a Categorical Exception pursuant Class 2, Section 15302 stating the project will be a replacement or reconstruction class 2.

Compensatory Mitigation: Not Applicable

Application Fee Provided: Certification fees of $695.00 have been submitted as required by 23 CCR §3833b(3)(A) and by 23 CCR §2200(e). An additional fee of $278 was received on 17 June 2010 as required by 23 CCR §3833b(2)(A) and by 23 CCR § 2200(e).
STATE WATER RESOURCES CONTROL BOARD  
WATER QUALITY ORDER NO. 2003 - 0017 - DWQ  
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR  
DREDGED OR FILL DISCHARGES THAT HAVE RECEIVED  
STATE WATER QUALITY CERTIFICATION (GENERAL WDRs)  

The State Water Resources Control Board (SWRCB) finds that:  

1. Discharges eligible for coverage under these General WDRs are discharges of dredged or fill material that have received State Water Quality Certification (Certification) pursuant to federal Clean Water Act (CWA) section 401.  

2. Discharges of dredged or fill material are commonly associated with port development, stream channelization, utility crossing land development, transportation water resource, and flood control projects. Other activities, such as land clearing, may also involve discharges of dredged or fill materials (e.g., soil) into waters of the United States.  

3. CWA section 404 establishes a permit program under which the U.S. Army Corps of Engineers (ACOE) regulates the discharge of dredged or fill material into waters of the United States.  

4. CWA section 401 requires every applicant for a federal permit or license for an activity that may result in a discharge of pollutants to a water of the United States (including permits under section 404) to obtain Certification that the proposed activity will comply with State water quality standards. In California, Certifications are issued by the Regional Water Quality Control Boards (RWQCB) or for multi-Region discharges, the SWRCB, in accordance with the requirements of California Code of Regulations (CCR) section 3830 et seq. The SWRCB’s water quality regulations do not authorize the SWRCB or RWQCBs to waive certification, and therefore, these General WDRs do not apply to any discharge authorized by federal license or permit that was issued based on a determination by the issuing agency that certification has been waived. Certifications are issued by the RWQCB or SWRCB before the ACOE may issue CWA section 404 permits. Any conditions set forth in a Certification become conditions of the federal permit or license if and when it is ultimately issued.  

5. Article 4, of Chapter 4 of Division 7 of the California Water Code (CWC), commencing with section 13260(a), requires that any person discharging or proposing to discharge waste, other than to a community sewer system, that could affect the quality of the waters of the State, file a report of waste discharge (ROWD). Pursuant to Article 4, the RWQCBs are required to prescribe waste discharge requirements (WDRs) for any proposed or existing discharge unless WDRs are waived pursuant to CWC section 13269. These General WDRs fulfill the requirements of Article 4 for proposed dredge or fill discharges to waters of the United States that are regulated under the State’s CWA section 401 authority.  

1."Waters of the State" as defined in CWC Section 13050(c)
6. These General WDRs require compliance with all conditions of Certification orders to ensure that water quality standards are met.

7. The U.S. Supreme Court decision of *Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers*, 531 U.S. 159 (2001) (the SWANCC decision) called into question the extent to which certain “isolated” waters are subject to federal jurisdiction. The SWRCB believes that a Certification is a valid and enforceable order of the SWRCB or RWQCBs irrespective of whether the water body in question is subsequently determined not to be federally jurisdictional. Nonetheless, it is the intent of the SWRCB that all Certification conditions be incorporated into these General WDRs and enforceable hereunder even if the federal permit is subsequently deemed invalid because the water is not deemed subject to federal jurisdiction.

8. The beneficial uses for the waters of the State include, but are not limited to, domestic and municipal supply, agricultural and industrial supply, power generation, recreation, aesthetic enjoyment, navigation, and preservation and enhancement of fish, wildlife, and other aquatic resources.

9. Projects covered by these General WDRs shall be assessed a fee pursuant to Title 23, CCR section 3833.

10. These General WDRs are exempt from the California Environmental Quality Act (CEQA) because (a) they are not a “project” within the meaning of CEQA, since a “project” results in a direct or indirect physical change in the environment (Title 14, CCR section 15378); and (b) the term “project” does not mean each separate governmental approval (Title 14, CCR section 15378(c)). These WDRs do not authorize any specific project. They recognize that dredge and fill discharges that need a federal license or permit must be regulated under CWA section 401 Certification, pursuant to CWA section 401 and Title 23, CCR section 3855, et seq. Certification and issuance of waste discharge requirements are overlapping regulatory processes, which are both administered by the SWRCB and RWQCBs. Each project subject to Certification requires independent compliance with CEQA and is regulated through the Certification process in the context of its specific characteristics. Any effects on the environment will therefore be as a result of the certification process, not from these General WDRs. (Title 14, CCR section 15061(b)(3)).

11. Potential dischargers and other known interested parties have been notified of the intent to adopt these General WDRs by public hearing notice.

12. All comments pertaining to the proposed discharges have been heard and considered at the November 4, 2003 SWRCB Workshop Session.

13. The RWQCBs retain discretion to impose individual or general WDRs or waivers of WDRs in lieu of these General WDRs whenever they deem it appropriate. Furthermore, these General WDRs are not intended to supersede any existing WDRs or waivers of WDRs issued by a RWQCB.
IT IS HEREBY ORDERED that WDRs are issued to all persons proposing to discharge dredged or fill material to waters of the United States where such discharge is also subject to the water quality certification requirements of CWA section 401 of the federal Clean Water Act (Title 33 United States Code section 1341), and such certification has been issued by the applicable RWQCB or the SWRCB, unless the applicable RWQCB notifies the applicant that its discharge will be regulated through WDRs or waivers of WDRs issued by the RWQCB. In order to meet the provisions contained in Division 7 of CWC and regulations adopted thereunder, dischargers shall comply with the following:

1. Dischargers shall implement all the terms and conditions of the applicable CWA section 401 Certification issued for the discharge. This provision shall apply irrespective of whether the federal license or permit for which the Certification was obtained is subsequently deemed invalid because the water body subject to the discharge has been deemed outside of federal jurisdiction.

2. Dischargers are prohibited from discharging dredged or fill material to waters of the United States without first obtaining Certification from the applicable RWQCB or SWRCB.

CERTIFICATION

The undersigned, Clerk to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on November 19, 2003.

AYE: Arthur G. Baggett, Jr.
     Peter S. Silva
     Richard Katz
     Gary M. Carlton
     Nancy H. Sutley

NO: None.

ABSENT: None.

ABSTAIN: None.

[Signature]
Debbie Irwin
Clerk to the Board
NATIONWIDE PERMIT 14

LINEAR TRANSPORTATION PROJECTS

Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/3-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.

This NWP also authorizes temporary structures, fills, and work necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars. (Sections 10 and 404)

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if:

(1) the loss of waters of the United States exceeds 1/10 acre; or
(2) there is a discharge in a special aquatic site, including wetlands.

Note: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under Section 404(f) of the Clean Water Act (see 33 CFR 323.4).

August 19, 2010

Chip Koch
Pacific Gas and Electric Company
350 Salem Street
Chico, CA 95928

Subject: Final Lake or Streambed Alteration Agreement
        Notification No. 1600-2010-0092-R2
        Camp Meeting Road Bridge Replacement

Dear Mr. Koch,

Enclosed is the final streambed Alteration Agreement ("Agreement") for the Camp Meeting Road bridge replacement ("Project"). Before the Department may issue an Agreement, it must comply with the California Environmental Quality Act ("CEQA"). In this case, the Department, acting as a lead agency, determined your project is exempt from CEQA and filed a notice of exemption ("NOE") on August 19, 2010.

Under CEQA, filing a NOE starts a 35-day period within which a party may challenge the filing agency’s approval of the project. You may begin your project before the 35-day period expires if you have obtained all necessary local, state, and federal permits or other authorizations. However, if you elect to do so, it will be at your own risk.

If you have any questions regarding this matter, please contact Bob Hosea, Environmental Scientist at (916) 704-9156 or bhosea@dfg.ca.gov.

Sincerely,

[Signature]

Kent Smith
Regional Manager

ec: Bob Hosea
   bhosea@dfg.ca.gov

Conserving California’s Wildlife Since 1870
Streambed Alteration Agreement
Notification No. 1600-2010-0092-R2
Unnamed tributary to North Fork of Feather River
Pacific Gas and Electric Company
Camp Meeting Road Bridge Replacement

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Game (DFG) and Pacific Gas and Electric Company (Permittee) as represented by Chip Koch.

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified DFG on 07 June 2010 that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, DFG has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW therefore, Permittee agrees to complete the project in accordance with the Agreement.

PROJECT LOCATION

The project is located at unnamed tributary to North Fork of Feather River, in the County of Butte, State of California; Latitude 39 degrees, 5 minutes, 26 seconds North, Longitude 121 degrees, 23 minutes, 58 seconds West.

PROJECT DESCRIPTION

The project is limited to replacement of a burned wooden bridge and wooden foundations for the bridge with new foundations and a steel frame bridge. The new bridge will be in the exact same footprint as the bridge that was destroyed during a forest fire in 2008.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include: Middendorf's chub (Gila microcliata middendorfii), warm water fish species, amphibians, and other aquatic and terrestrial plant and wildlife species.
The adverse effects the project could have on the fish or wildlife resources identified above include: destruction of individuals within the population in the area, increased soil erosion and movement of eroded sediments into nearby year-round flowing river (North Fork of Feather River)

STREAM ZONE DEFINED

The Stream Zone comprises all components of a stream, including the channel, bed, banks, and floodplains. The Stream Zone is the land, including vegetation, that bounds a lake or the channel of a stream and that defines the lateral extent of their waters.

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee shall meet each administrative requirement described below.

1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to DFG personnel, or personnel from another state, federal, or local agency upon request.

1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.

1.3 Notification of Conflicting Provisions. Permittee shall notify DFG if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, DFG shall contact Permittee to resolve any conflict.

1.4 Project Site Entry. Permittee agrees that DFG personnel may enter the project site to verify compliance with the Agreement. DFG personnel may only enter the project site when it is safe to do so. When appropriate, DFG personnel shall contact the Permittee prior to entering the construction area.

1.5 Authorized Work. The notification, together with all supporting documents submitted with the notification, is hereby incorporated into this agreement to describe the location and features of the proposed project. The Permittee agrees that all work shall be done as described in the notification and supporting documents, incorporating all project modifications, wildlife resource protection features, mitigation measures, and provisions as described in this agreement.

Initials: Cfi
Where apparent conflicts exist between the notification and the provisions listed in this agreement, the Permittee shall comply with the provisions listed in this agreement. The Permittee further agrees to notify DFG of any modifications made to the project plans submitted to DFG. At the discretion of DFG, this agreement will be amended to accommodate modifications to the project plans submitted to DFG and/or new project activities.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

2.1 Work Period. The time period for completing the work within the stream zone shall be restricted to periods of low stream flow and dry weather. Construction activities shall be timed with awareness of precipitation forecasts and likely increases in stream flow. Construction activities within the stream zone shall cease until all reasonable erosion control measures, inside and outside of the stream zone, have been implemented prior to all storm events. Revegetation, restoration and erosion control work is not confined to this time period.

2.2 Work Period Extensions. At DFG's discretion, the work period may be extended based on the extent of the work remaining, on site conditions and reasonably anticipated future conditions. If the Permittee finds more time is needed to complete the authorized activity, the Permittee shall submit a written request for a work period time extension to DFG. The work period extension request shall provide the following information: 1) Describe the extent of work already completed; 2) Provide specific detail of the activities that remain to be completed within the stream zone; and 3) Detail the actual time required to complete each of the remaining activities within the stream zone. The work period extension request should consider the effects of increased stream conditions, rain delays, increased erosion control measures, limited access due to saturated soil conditions, and limited growth of erosion control grasses due to cool weather. Photographs of the work completed and the proposed work areas are helpful in assisting DFG in its evaluation. Time extensions are issued at the discretion of DFG. DFG will have ten calendar days to approve the proposed work period extension. DFG reserves the right to require additional measures designed to protect natural resources.

2.3 Stream Diversions / Dewatering. If work in the flowing portion of the stream is unavoidable, the entire stream flow shall be diverted around or through the work area during the excavation and/or construction operations. Stream flow shall be diverted using gravity flow through temporary culverts/pipe's or pumped around the work site with the use of hoses. When any dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain aquatic life below the dam pursuant to Fish and Game Code section 5937. The temperature of the diverted water will not be allowed to become elevated such that it may be deleterious to

Initials: C.E. L. 
aquatic organisms downstream. The dissolved oxygen concentration of the diverted water will not be allowed to drop to a level that may be deleterious to downstream aquatic life. Any temporary dam or other artificial obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel which will cause little or no siltation.

2.4 **Bird Nests.** It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird except as otherwise provided by the Fish and Game Code. No trees that contain active nests of birds shall be disturbed until all eggs have hatched and young birds have fledged without prior consultation and approval of a Department representative.

2.5 **Vegetation Removal.** Prior to initiation of the project a survey will be conducted by a trained and certified biologist qualified to identify populations of Mildred’s clarkia. Any plants of this species shall be marked in such a manner as to identify them for avoidance. If it is not possible to avoid plants from this species, the operator shall attempt to transplant the individual plants to suitable habitat outside of the construction zone. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. Except for the trees specifically identified for removal in the notification, no native trees with a trunk diameter at breast height (DBH) in excess of four (4) inches shall be removed or damaged without prior consultation and approval of a Department representative. Using hand tools (clippers, chain saw, etc.); trees may be trimmed to the extent necessary to gain access to the work sites. All cleared material/vegetation shall be removed out of the riparian/stream zone.

2.6 **Sediment Control.** Precautions to minimize turbidity/siltation shall be taken into account during project planning and implementation. This may require the placement of silt fencing, coir logs, coir rolls, straw bale dikes, or other siltation barriers so that silt and/or other deleterious materials are not allowed to pass to downstream reaches. Passage of sediment beyond the sediment barrier(s) is prohibited. If any sediment barrier fails to retain sediment, corrective measures shall be taken. The sediment barrier(s) shall be maintained in good operating condition throughout the construction period and the following rainy season. Maintenance includes, but is not limited to, removal of accumulated silt and/or replacement of damaged silt fencing, coir logs, coir rolls, and/or straw bale dikes. The **use of monofilament netting based erosion control blankets is prohibited within the stream zone or associated riparian areas.** The Permitee is responsible for the removal of non-biodegradable silt barriers (such as plastic silt fencing) or the netting surrounding coir logs and/or rolls, after the disturbed areas have been stabilized with erosion control vegetation (usually after the first growing season). Upon Department determination that turbidity/siltation levels resulting from project related activities constitute a threat to aquatic life, activities associated with the turbidity/siltation shall be halted until effective Department approved control devices are installed or abatement procedures are initiated.

Initials: [Signature]
2.7 **Pollution Control.** Utilize Best Management Practices (BMPs) to prevent spills and leaks into water bodies. If maintenance or refueling of vehicles or equipment must occur on-site, use a designated area and/or a secondary containment, located away from drainage courses to prevent the runoff of storm water and the runoff of spills. Ensure that all vehicles and equipment are in good working order (no leaks). Place drip pans or absorbent materials under vehicles and equipment when not in use. Ensure that all construction areas are covered by a site-wide spill response plan and have proper spill clean up materials (absorbent pads, sealed containers, booms, etc.) to contain the movement of any spilled substances. Any other substances which could be hazardous to aquatic life, resulting from project related activities, shall be prevented from contaminating the soil and/or entering the waters of the state. Any of these materials, placed within or where they may enter a stream or lake by the Applicant or any party working under contract or with the permission of the Permittee, shall be removed immediately. DFG shall be notified immediately by the Permittee of any spills and shall be consulted regarding clean-up procedures.

3. **Compensatory Measures**

To compensate for adverse impacts to fish and wildlife resources identified above that cannot be avoided or minimized, Permittee shall implement each measure listed below.

3.1 **Site Restoration.** All exposed/disturbed areas and access points within the stream zone left barren of vegetation as a result of the construction activities shall be restored using locally native grass seeds, locally native grass plugs and/or a mix of quick growing sterile non-native grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jut netted (monofilament erosion blankets are not authorized). Riparian trees and native shrubs removed as a result of construction activities shall be mitigated on site to maximum extent possible.

4. **Reporting Measures**

Permittee shall meet each reporting requirement described below.

4.1 The Permittee shall notify DFG within two working days of beginning work within the stream zone of the unnamed tributary to the North Fork of the Feather River. Notification shall be submitted as instructed in Contact Information section below. Email notification is preferred.

4.2 Upon completion of the project activities described in this agreement, the work area within the stream zone shall be digitally photographed. Photographs shall be submitted to DFG within two days of completion. Photographs and project commencement notification shall be submitted as instructed in Contact Information section below. Email submittal is preferred.

Initials: [Signature]
CONTACT INFORMATION

Any communication that Permittee or DFG submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or DFG specifies by written notice to the other. Refer to the project's Notification Number when submitting documents to DFG.

To Permittee:

Pacific Gas and Electric Company
Chip Koch
350 Salem Street
Chico, CA 95928
Jrv8@pge.com

To DFG:

Department of Fish and Game
North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670
Attn: Lake and Streambed Alteration Program
Notification #1600-2010-0092 R2
Fax: 916-358-2912
bhosea@dfg.ca.gov

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute DFG's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

SUSPENSION AND REVOCATION

DFG may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before DFG suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice
shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before DFG suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused DFG to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes DFG from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects DFG's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 et seq. (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

The Permittee shall notify DFG where conflicts exist between the provisions of this agreement and those imposed by other regulatory agencies. Unless otherwise notified, the Permittee shall comply with the provision that offers the greatest protection to water quality, species of special concern and/or critical habitat.

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

DFG may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by Permittee and DFG.

TRANSFER AND ASSIGNMENT

Initials: C T L C
This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter DFG approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to DFG a completed DFG “Request to Amend Lake or Streambed Alteration” form and include with the completed form payment of the minor amendment fee identified in DFG’s current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with FGC section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement’s term. To request an extension, Permittee shall submit to DFG a completed DFG “Request to Extend Lake or Streambed Alteration” form and include with the completed form payment of the extension fee identified in DFG’s current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). DFG shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (Fish & G. Code, § 1605, subd. (f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of DFG’s signature, which shall be: 1) after Permittee’s signature; 2) after DFG complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at http://www.dfg.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall expire five years from the date of DFG signature, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee’s

Initials: CFC
behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify DFG in accordance with FGC section 1602.
CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

FOR PACIFIC GAS AND ELECTRIC COMPANY

Chip Koch  
Environmental Planning and Permitting Manager  
8/7/10  
Date

FOR DEPARTMENT OF FISH AND GAME

Kent Smith  
Regional Manager  
8/23/10  
Date

Prepared by: Bob Hosea  
Environmental Scientist

Initials: CAC
Viscarra, Jesus R

From: Samantha Hillaire [shillaire@garciaandassociates.com]
Sent: Monday, March 01, 2010 2:33 PM
To: Ho, Henry; Viscarra, Jesus R; Magnini, Edward M; Jim Sherar; Critchlow, Ronald L; Nelson, James S.
Subject: Information from the Forest Service

Hello Ed-

Below is the email chain from last summer with the Forest Service. Linda indicated that no official permit was needed.

Herman Wendell is the roads manager for the Plumas NF. His email is hwendell@fs.fed.us, his office in Oroville is (530) 534-6500 (that's probably the front desk rather than a direct line).

Thank you -
Sam

Previous email chain follows....

"I would coordinate via e-mail or phone with Herman and he can tell you what he wants to see happen.

*************************************************************************************************
Linda Lee Morehouse-Braxton
Assistant Resource Officer
U.S. Forest Service
Plumas NF/Feather River RD
875 Mitchell Avenue
Oroville, CA 95965
Phone: (530)534-6500/Fax: (530)532-1210
e-mail: lmorehousebraxton@fs.fed.us
*************************************************************************************************

"Samantha Hillaire" <shillaire@garciaandassociates.com>
06/12/2009 09:34 AM
To
"Linda L Morehouse Braxton" <lmorehousebraxton@fs.fed.us>
cc
"Herman Wendell" <hwendell@fs.fed.us>, "Deb Schoenberg" <dschoenberg@fs.fed.us>,
"Karen L Hayden" <khayden@fs.fed.us>, <rlcc@pge.com>, "Jim Sherar"
<jsherar@garciaandassociates.com>
Subject
RE: FW: PG&E rebuild of Bridge on Camp Creek Meeting Road

Hi Linda -
Thanks for checking with Herman so quickly regarding the road permit! Great news that one
is not needed.

For notifying/coordinating with the PNF, is there an official notification PG&E needs to submit (I remember there were small "PIN"s - project initiation notices - when I was working there). Would it be something like that? If so, can you send (or link me to) the appropriate blank form or format? Otherwise, what kind of documentation/notifications would you need?

I believe Ed Magrini (roads at PG&E) said he might have an initial bridge design in a few weeks. Would you like to set up a meeting when that's available?

Thanks -
Sam

Samantha Hillaire
Botanist
Garcia and Associates (GANDA)
shillaire@garciaandassociates.com
530 588-3515

-----Original Message-----
From: Linda L Morehouse Braxton [mailto:lmorehousebraxton@fs.fed.us]
Sent: Fri 6/12/2009 9:02 AM
To: Samantha Hillaire
Cc: Herman Wendell; Deb Schoenberg; Karen L Hayden
Subject: Re: FW: PG&E rebuild of Bridge on Camp Creek Meeting Road

I spoke with Herman Wendell (Road Manager) this morning and confirmed that there is no permit required to rebuild bridge, but coordination and notification to FS so that we are aware of construction and activities associated with the project is necessary.

******************************************************************************
Linda Lee Morehouse-Braxton
Assistant Resource Officer
U.S. Forest Service
Plumas NF/Feather River RD
875 Mitchell Avenue
Oroville, CA 95965
Phone: (530)534-6500/Fax: (530)532-1210
e-mail: lmorehousebraxton@fs.fed.us
******************************************************************************

"Samantha Hillaire" <shillaire@garciaandassociates.com>
06/11/2009 08:18 AM

To
<lmorehousebraxton@fs.fed.us>
cc
<rlcc@pge.com>, "Jim Sherar" <jsherar@garciaandassociates.com>
Subject
FW: PG&E rebuild of Bridge on Camp Creek Meeting Road

Hi Linda -
Thanks for the quick phone call back, and the correction on the email address.

The project is a bridge that burned up Summer 2008 on Camp Creek Meeting Road (a Butte County Road). The surrounding land is Plumas NF. Apparently, PG&E has been talking to Butte County about rebuilding this bridge, but Butte County is short of money to do it. PG&E needs the bridge to continue to access to those large transmission lines on the side of the canyon. PG&E is interested in rebuilding this bridge this fall when the stream is real low (to make sure they have access for winter outages).

We had a few questions:

1. First, wanted to make sure that this bridge is in the Feather River District:
   Pulga Quad, Butte County, on Camp Creek Meeting Road (labelled as County Road 76555F on the map)
   T23N, R5E, Section 10, SE 1/4 of SE 1/4
   (From Arch Rock, there is a creek that comes out directly W across the river. Follow that creek NW up for about 1/2 mile until it meets the road. That's where the bridge is out).
   Are you the right district and person to talk to about this? Or is there someone else at Quincy or Mt. Hough?

2. Second, is there an existing permit for that bridge for Butte County? Since it's a Butte County Road - does the Forest Service get involved? Would PG&E need a permit from the Forest Service to rebuild the bridge? If PG&E needs a permit, what kind, is there an application package they need to submit, and what's the timeline?

Thank you, Linda, for any help you can provide.
You may hear from PG&E (Ed Magrini, Ron Critchlow, or Jesus Viscarra), or other Garcia and Associates staff (Jim Sherar, Jackie Finck) about this project.
Please call at 530 588-3515 if you need clarification.

Thanks again -
Sam"

Samantha Hillaire
Botanist
Garcia and Associates (GANDA)
shillaire@garciaandassociates.com
530 588-3515
Attachment 5

Notice of Exemption
Notice of Exemption

To: Office of Planning and Research
P.O. Box 3044, Room 212
Sacramento, CA 95812-3044

County Clerk
County of Butte
25 County Center Drive
Oroville, CA 95965-3375

From: (Public Agency)
Butte County Department of Public Works
7 County Center Drive, Oroville, CA 95965

(Address)

Project Title: Camp Creek Meeting Road Bridge Replacement Project

Project Location - Specific:
On Camp Creek Meeting Bridge Road (County Road 765555), Pulga 7 1/2' USGS Quad. Township T23N, Range R5E, Section 10, SE 1/4. Latitude 39 deg. 5' 28" N, Longitude 121 deg. 23' 58" W.

Description of Nature, Purpose and Beneficiaries of Project:
In summer 2008, Butte Lightning Complex Fires destroyed a wooden bridge across an unnamed stream on Camp Creek Meeting Bridge Road. Temporary culverts were placed in the stream for emergency access; these measures are now unstable. This road is the only vehicle access to portions of the following PG&E transmission lines: Rock Creek-Poe 230kV, Cresta-Rio Oso 230 kV, and Caribou-Palermo 115 kV. Therefore it is vitally important for providing all-weather and emergency access to these transmission facilities.

Name of Public Agency Approving Project: Butte County Public Works Department
Name of Person or Agency Carrying Out Project: Pacific Gas and Electric Company (PG&E)

Exempt Status: (check one)
□ Ministerial (Sec. 21080(b)(1); 15268);
□ Declared Emergency (Sec. 21080(b)(3); 15269(a));
□ Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
X Categorical Exemption. State type and section number: Section 15302, Replacement or Reconstruction Class 2
□ Statutory Exemptions. State code number:

Reasons why project is exempt:
This Project is proposed in keeping with Section 15302 of the CEQA guidelines, and involves the reconstruction of a bridge structure with a new bridge structure that is located on the same site. The proposed replacement will not change the purpose or capacity of the road system. No significant impacts have been identified for this Project.

Lead Agency
Contact Person: [signature]
Area Code/Telephone/Extension: 530-538-2167

If filed by applicant:
1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? □ Yes □ No

Signature: [signature]
Date: 3/17/10 Title: Assistant Dir

Signed by Lead Agency
Signed by Applicant

Date received for filing at OPR:

Revised 2005
DECLARATION OF FEES DUE
(California Fish and Game Code Section 711.4)

Butte County Board of Supervisors
7 County Center Drive
Oroville, CA 95965

FILING NO. ____________________________

Project Title/file number: Camp Creek meeting Road Bridge Replacement Project

APN# N/A, within County road right of way

CLASSIFICATION OF ENVIRONMENTAL DOCUMENT:

1. NOTICE OF EXEMPTION/STATEMENT OF EXEMPTION
   (X) A. Statutorily or Categorically Exempt
          $50.00 Clerk’s Documentary Handling Fee
   ( ) B. De Minimis Impact - Certificate of Fee Exemption
          $50.00 Clerk’s Documentary Handling Fee

2. NOTICE OF DETERMINATION - FEE REQUIRED
   ( ) A. Negative Declaration
          $1,250 State Filing Fee
          $50.00 Clerk’s Documentary Handling Fee
   ( ) B. Environmental Impact Report
          $850 State Filing Fee
          $50.00 Clerk’s Documentary Handling Fee

3. ( ) OTHER (Specify) ________________________________
   $50.00 Clerk’s Documentary Handling Fee

PAYMENT / NON-PAYMENT OF FEES:
1. ( ) PAYMENT: The above fees have been paid.
   See attached receipt(s).

2. (X) NON-PAYMENT: The above fees are required. Not paid.

   Chief Planning Officer
   By: ____________________________
   Title: ASSISTANT DIRECTOR
   Lead Agency: Butte County Department of
   Development Services
   Date: 1/22/10

TWO COPIES OF THIS FORM MUST BE COMPLETED AND SUBMITTED WITH ALL ENVIRONMENTAL DOCUMENTS FILED
WITH THE BUTTE COUNTY CLERK’S OFFICE.

THREE COPIES OF ALL NECESSARY DOCUMENTATION ARE REQUIRED FOR FILING.

ALL APPLICABLE FEES ARE DUE AND PAYABLE PRIOR TO THE FILING OF ANY ENVIRONMENTAL DOCUMENT WITH THE
BUTTE COUNTY CLERK’S OFFICE. MAKE CHECKS PAYABLE TO THE COUNTY OF BUTTE.
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