



**San Francisco**  
**Water Power Sewer**  
Services of the San Francisco Public Utilities Commission

Infrastructure Division  
525 Golden Gate Avenue, 8th Floor  
San Francisco, CA 94102

July 27, 2018

Regulatory Contracts  
California Independent System Operator Corporation  
250 Outcropping Way  
Folsom, CA 95630  
Email: [regulatorycontracts@caiso.com](mailto:regulatorycontracts@caiso.com)

**RE:** 1) Notice of Contract Amendment Certification  
2) Executed Agreement #1 between the City and County of San Francisco  
Public Utilities Commission and California Independent System  
Operator Corporation (CAISO).

Dear CAISO,

This letter provides a *Notice of Amendment Certification* for the following contracted work:

**Contract ID Number:** CS-399 (1000000223)  
**Contract Title:** CAISO Planning Authority Services  
**Effective Date:** November 10, 2015 to November 10, 2021  
**Amount:** Total value of contract not to exceed  
\$250,000.00

Work may not be charged against the Contract ID Number. Invoices must be charged against specific task orders only after a *Notice to Proceed* has been issued.

Sincerely,

Rosiana Angel  
Infrastructure Budget and Payment Processing

Enclosure: Executed Agreement  
cc: Margaret Hannaford  
Theresa Mueller

File/CS-399 NCAC

**London Breed**  
Mayor

**Ike Kwon**  
President

**Vince Courtney**  
Vice President

**Ann Moller Caen**  
Commissioner

**Francesca Vietor**  
Commissioner

**Anson Moran**  
Commissioner

**Harlan L. Kelly, Jr.**  
General Manager





**PLANNING COORDINATOR AGREEMENT**

**FIRST AMENDMENT**

THIS FIRST AMENDMENT (this "First Amendment") to the PLANNING COORDINATOR AGREEMENT by and between the California Independent System Operator Corporation ("CAISO") and the City and County of San Francisco ("City"), acting by and through its Public Utilities Commission, is made as of July 22, 2018.

**RECITALS**

A. WHEREAS, CAISO and City have entered into the Planning Coordinator Agreement (as defined below); and

B. WHEREAS, CAISO and City desire to modify the Planning Coordinator Agreement on the terms and conditions set forth herein to extend the performance period, and update certain attachments to the Planning Coordinator Agreement.

NOW THEREFORE, in consideration of the mutual covenants set forth herein, THE PARTIES AGREE as follows:

**1. Definitions.** The following definition shall apply to this First Amendment:

Agreement. The term "Planning Coordinator Agreement" shall mean the Planning Coordinator Agreement dated May 14, 2015 between CAISO and City, and made effective November 10, 2015.

**2. Modifications to the Agreement.** The Planning Coordinator Agreement is hereby modified as follows:

**2a.** Section 4.3 Effective Date of the Planning Coordinator Agreement currently reads:

**4.3 Effective Date.** This Agreement shall be effective as of the later of the date it is executed by the Parties or the date accepted for filing and made effective by FERC, if such FERC filing is required, ("Effective Date") and shall remain in full force and effect for three (3) years from the Effective Date ("Current Term") or as terminated pursuant to Section 4.4 of this Agreement. Beginning on the Effective Date, CAISO will commence activities necessary to perform the services described in Section 2.1 herein. Notwithstanding the foregoing, the Parties agree that the San Francisco Controller must certify the availability of funds and notify the



FIRST AMENDMENT TO PLANNING COORDINATOR AGREEMENT

CAISO in writing of such before the Agreement may become effective. The Parties may mutually agree in writing to extend the term of the Agreement at any time, provided that, with respect to San Francisco, such agreement must be approved in the same manner as this Agreement and must comply with all applicable San Francisco requirements.

Such section is hereby amended in its entirety to read as follows:

**4.3 Effective Date.** This Agreement shall be effective on November 10, 2018 if duly executed by the Parties ("Effective Date") and shall remain in full force and effect until November 10, 2021 ("Current Term") or as terminated pursuant to Section 4.4 of this Agreement. Notwithstanding the foregoing, the Parties agree that the San Francisco Controller must certify the availability of funds and notify the CAISO in writing of such before the Agreement may become effective. The Parties may mutually agree in writing to extend the term of the Agreement an additional three (3) years at any time, provided that, with respect to San Francisco, such agreement must be approved in the same manner as this Agreement and must comply with all applicable San Francisco requirements.

**2b. Attachment 2.** Attachment 2 of the Planning Coordinator Agreement is replaced in its entirety by Attachment 2 to this First Amendment.

**2c. Attachment 4.** Attachment 4 of the Planning Coordinator Agreement is replaced in its entirety by Attachment 4 to this First Amendment.

**3. Legal Effect.** Except as expressly modified by this First Amendment, all of the terms and conditions of the Planning Coordinator Agreement shall remain unchanged and in full force and effect. The Parties agree that the modifications contained in this First Amendment do not require approval by FERC.

**4. Counterparts.** This First Amendment may be executed in one or more counterparts at different times, each of which shall be regarded as an original and all of which, taken together, shall constitute one and the same First Amendment.

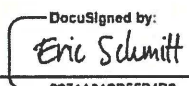


California ISO


FIRST AMENDMENT TO PLANNING COORDINATOR AGREEMENT

IN WITNESS WHEREOF, the Parties hereto have caused this First Amendment to be duly executed on behalf of each by and through their authorized representatives as of the date hereinabove written.

California Independent System Operator Corporation

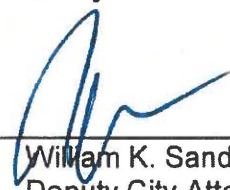
By:   
DocuSigned by:  
0971A84CB55B4B8  
Name: Eric Schmitt  
Title: VP, Operations  
Date: 6/1/2018

City and County of San Francisco

By:   
Name: Harlan L. Kelly, Jr.  
Title: General Manager  
Date: 7.22.2018

Approved as to Form:

Dennis J. Herrera  
City Attorney

By:   
William K. Sanders  
Deputy City Attorney





## **Attachment 2**

### **CAISO and San Francisco Coordination**

#### **1. Facility Interconnection Studies**

Applicable standard: FAC-002-2

With respect to interconnections to HHWP facilities, HHWP will conduct interconnection studies pursuant to its facilities interconnection procedures and will provide facility interconnection information and study results to the CAISO. As appropriate, the CAISO will incorporate information from HHWP interconnection studies in its Generator Interconnection and Deliverability Allocation Procedures ("GIDAP") and TPP studies. HHWP and CAISO will jointly evaluate, coordinate and cooperate on interconnection studies. This agreement does not affect either (1) interconnections to the CAISO Controlled Grid facilities which will continue to be governed by the CAISO Tariff and Business Practice Manuals ("BPMs"), or (2) HHWP's rights and responsibilities with respect to such interconnections.

#### **2. Transmission Planning**

Applicable standards: TPL-001-4; TPL-007-1; WECC Regional Criteria TLP-001-WECC-CRT-3.1; WECC BES Inclusion Guideline. (Note: TPL-001-5 is under NERC and industry review and commenting (3/5/2018)).

HHWP will participate in the CAISO TPP. HHWP will submit to the CAISO the information about the HHWP system that the CAISO requires to undertake its TPP. The CAISO will undertake its TPP in accordance with its Tariff and BPMs. Consistent with its responsibility to meet Reliability Standards applicable to a Transmission Planner or Transmission Owner, HHWP has the final responsibility and authority over implementing corrective actions, modifications or changes to its facilities.

#### **3. SOLs, Transfer Capability and Stability Limits**

Applicable standards: FAC-010-3, FAC-013-2, FAC-014-2

CAISO will document and share its SOL Methodology for use in developing SOLs within its Planning Authority Area, including the HHWP system. HHWP will establish and provide to CAISO SOLs for the HHWP system consistent with the CAISO SOL Methodology. CAISO will adopt SOLs for its Planning Authority Area, incorporating as appropriate the information provided by HHWP.



HHWP will provide CAISO facility ratings for CAISO to include in its transfer capability studies performed under FAC-013-2. CAISO will provide its transfer capability methodology and assessment results to HHWP. HHWP will provide CAISO HHWP's list of multiple HHWP/Adjacent system contingencies (if any) which result in stability limits on the HHWP system for use by the CAISO as appropriate in carrying out its responsibilities under FAC-014-2.

#### **4. Modeling**

Applicable standards: MOD-031-2; MOD-032-1; MOD-033-1

HHWP will provide HHWP transmission system load pursuant to the WECC Data Collection Manual and CEC data collection requirements. The CAISO will include this data in its documentation for its Planning Coordinator (a.k.a., Planning Authority) Area, developed consistent with its Tariff and BPMs, that identifies the scope and details of the actual and forecast (a) Demand data, (b) Net Energy for Load data, and (c) controllable and dispatchable DSM data to be reported for system modeling and reliability analyses. The CAISO will use the HHWP transmission system load data provided by HHWP as needed to meet its obligations under MOD-031-2 Demand and Energy Data. There are no HHWP interruptible demands or DCLM load data on the HHWP system. Applicable MOD standards also include MOD-032-1 Data for Power System Modeling and Analysis, and MOD-033-1 Steady-State and Dynamic System Model Validation.

#### **5. Underfrequency Load Shedding (UFLS)**

Applicable standard and regional criteria: PRC-006-3, PRC-006-WECC-CRT-3

HHWP will participate and/or provide information as necessary for CAISO's studies related to PRC-006. HHWP will participate and/or provide information as necessary for the CAISO's activities related to PRC-006-WECC-CRT-3.

#### **6. Transmission Relay Loadability**

Applicable standard: PRC-023-4

CAISO will include the HHWP system in its Transmission Register as non-PTO facilities and will include such facilities in its determination of assessments required under PRC-023-4, R6. Upon request, HHWP will provide facilities information needed by CAISO to perform its PRC-023-4 evaluations.

#### **7. Additional Protection and Control Standards**

Applicable Standards: PRC-010-2 UVLS; PRC-026-1 Relay Performance During Stable Power Swings



FIRST AMENDMENT TO PLANNING COORDINATOR AGREEMENT

Subject to Future Enforcement: PRC-012-2 (RAS) Effective Date of Standard:  
1/1/2021

**8. Interconnection Reliability Operations and Coordination**

Applicable Standard: IRO-017-1 Outage Coordination Requirements R3 & R4

**9. CIP-002-5.1 Attachment 1 Criteria 2.3, 2.6, 2.9 (if applicable)**

**10. Nuclear**

Not Applicable.



**Attachment 4**

**Notices**

1. As to the CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION:

Regulatory Contracts  
250 Outcropping Way  
Folsom, CA 95630  
Telephone: (916) 351-4400  
Electronic mail: RegulatoryContracts@caiso.com

Attn: Accounting  
250 Outcropping Way  
Folsom, CA 95630

Bank Wiring Instructions:  
By Wire: Wells Fargo Bank, N.A.  
ABA Routing #: 121000248  
Account # 4122041783

2. As to the CITY AND COUNTY OF SAN FRANCISCO:

Margaret Hannaford  
Hetch Hetchy Water and Power  
PO Box 160  
Moccasin, CA 95347  
Telephone: (209) 989-2063  
Electronic mail: mhannaford@sfgwater.org

With a copy to:

Theresa Mueller  
Chief Energy and Telecommunications Deputy  
Office of City Attorney Dennis J. Herrera  
Room 234, City Hall  
San Francisco, CA 94102  
Telephone: (415) 554-4640  
Electronic mail: theresa.mueller@sfcityatty.org



## Certificate Of Completion

Envelope Id: 5AFA4817C4C44741B5ECCB1AC3C5B6CD

Status: Sent

Subject: Please DocuSign these documents: First Amendment to the PCA

Source Envelope:

Document Pages: 8

Signatures: 1

Envelope Originator:

Cheryl Adler

Certificate Pages: 5

Initials: 0

250 Outcropping Way

AutoNav: Enabled

Folsom, CA 95630

Envelopeld Stamping: Enabled

cadler@caiso.com

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

IP Address: 12.200.60.7

## Record Tracking

Status: Original

Holder: Cheryl Adler

Location: DocuSign

6/1/2018 10:41:35 AM

cadler@caiso.com

## Signer Events

## Signature

## Timestamp

Cheryl Sperry

Sent: 6/1/2018 11:02:48 AM

CSperry@sfrwater.org

Viewed: 6/1/2018 1:08:48 PM

Security Level: Email, Account Authentication  
(None)

Electronic Record and Signature Disclosure:

Accepted: 6/1/2018 1:08:48 PM

ID: 6f0fc3ef-0527-480b-977b-5104082c232c

Chris Sibley

Sent: 6/1/2018 11:02:48 AM

csibley@caiso.com

Manager, Regulatory Contracts

Security Level: Email, Account Authentication  
(None)

Electronic Record and Signature Disclosure:

Not Offered via DocuSign

Eric Schmitt

Sent: 6/1/2018 11:02:48 AM

eschmitt@caiso.com

Viewed: 6/1/2018 11:36:12 AM

VP, Operations

Signed: 6/1/2018 11:36:46 AM

Security Level: Email, Account Authentication  
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*Eric Schmitt*  
0971AB4CB55B4B8

Using IP Address: 12.200.60.7

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ID: bdc6d9b1-4caf-4c18-856c-0e9ae328eb0c

Cheryl Adler

cadler@caiso.com

Lead Contracts Analyst

California Independent System Operator Corporation

- Regulatory Contracts

Security Level: Email, Account Authentication  
(None)

Electronic Record and Signature Disclosure:

Accepted: 5/30/2017 4:02:35 PM

ID: 92d1b954-e9cc-4349-ac7f-c63c9b6512d7

## In Person Signer Events

## Signature

## Timestamp

## Editor Delivery Events

## Status

## Timestamp

## Agent Delivery Events

## Status

## Timestamp

| Intermediary Delivery Events  | Status           | Timestamp                  |
|---|------------------|----------------------------|
| <b>Certified Delivery Events</b>  | <b>Status</b>    | <b>Timestamp</b>           |
| <b>Carbon Copy Events</b>   | <b>Status</b>    | <b>Timestamp</b>           |
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| Gary DeShazo<br>DeShazo@caiso.com<br>Security Level: Email, Account Authentication (None)<br><b>Electronic Record and Signature Disclosure:</b><br>Not Offered via DocuSign   | <b>COPIED</b>    | Sent: 6/1/2018 11:02:49 AM |
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| Envelope Sent   | Hashed/Encrypted | 6/1/2018 11:02:49 AM       |
| <b>Payment Events</b>   | <b>Status</b>    | <b>Timestamps</b>          |
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## **ELECTRONIC RECORD AND SIGNATURE DISCLOSURE**

From time to time, California Independent Systems Operator Corporation - Regulatory Contracts (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through your DocuSign, Inc. (DocuSign) Express user account. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to these terms and conditions, please confirm your agreement by clicking the 'I agree' button at the bottom of this document.

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At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. For such copies, as long as you are an authorized user of the DocuSign system you will have the ability to download and print any documents we send to you through your DocuSign user account for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

### **Withdrawing your consent**

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

### **Consequences of changing your mind**

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. To indicate to us that you are changing your mind, you must withdraw your consent using the DocuSign 'Withdraw Consent' form on the signing page of your DocuSign account. This will indicate to us that you have withdrawn your consent to receive required notices and disclosures electronically from us and you will no longer be able to use your DocuSign Express user account to receive required notices and consents electronically from us or to sign electronically documents from us.

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Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through your DocuSign user account all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.



**How to contact California Independent Systems Operator Corporation - Regulatory Contracts:**

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: [cadler@caiso.com](mailto:cadler@caiso.com)

**To advise California Independent Systems Operator Corporation - Regulatory Contracts of your new e-mail address**

To let us know of a change in your e-mail address where we should send notices and disclosures electronically to you, you must send an email message to us at [cadler@caiso.com](mailto:cadler@caiso.com) and in the body of such request you must state: your previous e-mail address, your new e-mail address. We do not require any other information from you to change your email address..

In addition, you must notify DocuSign, Inc to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in DocuSign.

**To request paper copies from California Independent Systems Operator Corporation - Regulatory Contracts**

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an e-mail to [cadler@caiso.com](mailto:cadler@caiso.com) and in the body of such request you must state your e-mail address, full name, US Postal address, and telephone number. We will bill you for any fees at that time, if any.

**To withdraw your consent with California Independent Systems Operator Corporation - Regulatory Contracts**

To inform us that you no longer want to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your DocuSign account, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an e-mail to [cadler@caiso.com](mailto:cadler@caiso.com) and in the body of such request you must state your e-mail, full name, IS Postal Address, telephone number, and account number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

**Required hardware and software**

|                            |   |
|----------------------------|---|
| Operating Systems:         | Windows2000? or WindowsXP?  |
| Browsers (for SENDERS):    | Internet Explorer 6.0? or above   |
| Browsers (for SIGNERS):    | Internet Explorer 6.0?, Mozilla FireFox 1.0, NetScape 7.2 (or above)  |
| Email:                     | Access to a valid email account   |
| Screen Resolution:         | 800 x 600 minimum   |
| Enabled Security Settings: | <ul style="list-style-type: none"><li>•Allow per session cookies</li><li>•Users accessing the internet behind a Proxy Server must enable HTTP 1.1 settings via proxy connection</li></ul> |



**\*\* These minimum requirements are subject to change. If these requirements change, we will provide you with an email message at the email address we have on file for you at that time providing you with the revised hardware and software requirements, at which time you will have the right to withdraw your consent.**

**Acknowledging your access and consent to receive materials electronically**

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please verify that you were able to read this electronic disclosure and that you also were able to print on paper or electronically save this page for your future reference and access or that you were able to e-mail this disclosure and consent to an address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format on the terms and conditions described above, please let us know by clicking the 'I agree' button below.

By checking the 'I Agree' box, I confirm that:

- I can access and read this Electronic CONSENT TO ELECTRONIC RECEIPT OF ELECTRONIC RECORD AND SIGNATURE DISCLOSURES document; and
- I can print on paper the disclosure or save or send the disclosure to a place where I can print it, for future reference and access; and
- Until or unless I notify California Independent Systems Operator Corporation - Regulatory Contracts as described above, I consent to receive from exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to me by California Independent Systems Operator Corporation - Regulatory Contracts during the course of my relationship with you.