



California Independent
System Operator Corporation

July 19, 2016

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

**Re: California Independent System Operator Corporation
Docket No. ER16-_____-000**

**Filing of Non-Conforming Service Agreement, Rate Schedule No. 75
Amendment No. 1**

Dear Secretary Bose:

The California Independent System Operator Corporation (“CAISO”) submits for Commission filing and acceptance an Amendment No. 1 to the Dynamic Transfer Balancing Authority Operating Agreement (“Amendment”) between the CAISO and the Western Area Power Administration-Desert Southwest Region (“Western”).¹ The CAISO respectfully requests that the Amendment be made effective on September 18 2016.

I. Background

The CAISO filed the Dynamic Transfer Balancing Authority Operating Agreement with Western on December 6, 2013 in Docket No. ER14-569-000. By letter order issued January 24, 2014, the Commission accepted Rate Schedule No. 75.

II. Purpose of the Amendment to the Dynamic Transfer Balancing Authority Operating Agreement

The purpose of this Amendment is two-fold. First, the parties desire to revise Schedule 1 to incorporate the City of Anaheim’s dynamic schedule of 40 MW value from Hoover Power Plant into the CAISO Balancing Authority Area.

¹ The CAISO submits the Amendment pursuant to Section 205 of the Federal Power Act, 16 U.S.C. § 824d (2012).

Second, the Amendment modifies provisions in the Dynamic Transfer Balancing Authority Operating Agreement to allow administrative changes from time to time to Schedule 1 (Description Of Dynamic Scheduling Resources), and Schedule 2 (Pseudo-Tie Generating Unit, Pseudo Tie Technical Information, Native And Attaining Balancing Authority Area Information). Revisions to these schedules will be by mutual agreement of the parties in writing, which would not constitute an amendment to the agreement. These modifications include amendments to:

- a) Section 4.4.5: Description of System Resources;
- b) Section 5.9: (description of pseudo-ties); and
- c) Section 7.10: Amendments.

Revisions to the schedules will be by mutual agreement of the parties in writing, but would not constitute an amendment to the agreement that would require filing with the Commission for it to be effective. This will allow the parties to make administrative changes to these schedules without incurring the time, expense, and potential for delay associated with the regulatory approval process. For example, the 40 MW addition in available dynamic scheduling capacity presented here would have been agreed upon, documented and implemented by the parties without the need to present a filing such as this. These schedules do not change the rates, terms and conditions of the services being provided, only the description of the resources that receive the service. This is consistent with how the CAISO administers other similar changes in similar agreements.²

III. Effective Date

The CAISO respectfully requests that the Commission accept the Amendment effective September 18, 2016, the expected implementation date of the City of Anaheim's dynamic schedule from Hoover Power Plant into the CAISO Balancing Authority Area, pursuant to Section 35.11 of the Commission's regulations (18 C.F.R. § 35.11), of the 60-day notice requirement set forth in Section 35.3 of the Commission's regulations (18 C.F.R. § 35.3).

IV. Service

The CAISO has served copies of this filing upon Western, City of Anaheim, the California Public Utilities Commission, the California Energy Commission, and all parties on the official service list for Docket No. ER14-569-000. In addition, the CAISO has posted the filing on the CAISO website.

² See Letter Order dated August 7, 2014 in Docket No. ER14-2218-000 (accepting revisions to the Dynamic Transfer Balancing Authority Operating Agreement between the CAISO and the Public Service company of New Mexico that included similar provisions in sections 4.4.5, 5.9 and 7.8).

Enclosed for filing is each of the following:

- (1) This letter of transmittal;
- (2) Agreement No. 1 to the Dynamic Transfer Balancing Authority Operating Agreement (Attachment A);
- (3) Clean version of the Dynamic Transfer Balancing Authority Operating Agreement (Attachment B); and
- (4) Red-lined version of the Dynamic Transfer Balancing Authority Operating Agreement (Attachment C).

V. Correspondence

The CAISO requests that all correspondence, pleadings, and other communications concerning this filing be served upon the following:

John C. Anders*
Lead Counsel
California Independent System
Operator Corporation
250 Outcropping Way
Folsom, CA 95630
Tel: (916) 351-4400
Fax: (916) 608-7222
E-mail: janders@caiso.com

* Individual designated for service pursuant to Rule 203(b)(3), 18 C.F.R. § 203(b)(3).

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VI. Conclusion

The CAISO respectfully requests that the Commission accept this filing and approve the CAISO's submittal of the Amendment pursuant to Section 35.11 of the Commission's regulations (18 C.F.R. § 35.11), of the 60-day notice requirement set forth in Section 35.3 of the Commission's regulations (18 C.F.R. § 35.3).. If there are any questions concerning this filing, please contact the undersigned.

Respectfully submitted,

By: /s/ John C. Anders

Roger Collanton

General Counsel

Sidney M. Davies

Assistant General Counsel

John C. Anders

Lead Counsel

California Independent System

Operator Corporation

250 Outcropping Way

Folsom, CA 95630

Tel: (916) 351-4400

Fax: (916) 608-7222

janders@caiso.com

Attorneys for the California Independent
System Operator Corporation

CERTIFICATE OF SERVICE

I certify that I have served the foregoing document upon the parties listed on the official service list in the captioned proceedings, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2010).

Dated at Folsom, California this 19th day of July, 2016.

/s/ Grace Clark
Grace Clark

Attachment A – Agreement No. 1
Agreement No. 1 to the Dynamic Transfer Balancing
Authority Operating Agreement
California Independent System Operator Corporation

**CALIFORNIA INDEPENDENT SYSTEM OPERATOR
CORPORATION**

AND

**UNITED STATES
DEPARTMENT OF ENERGY
WESTERN AREA POWER
ADMINISTRATION
DESERT SOUTHWEST REGION**

**Amendment No. 1 to the
Dynamic Transfer Balancing Authority Operating Agreement**

This Amendment No. 1 (“Amendment No. 1”) to the DYNAMIC TRANSFER BALANCING AUTHORITY OPERATING AGREEMENT NO. 13-DSR-12464 (“Agreement”) is dated this 28th day of June 2016, and is entered into, by and between:

The United States of America, Department Of Energy, acting by and through the Administrator, Western Area Power Administration-Desert Southwest Region (“Western”), having its registered and principal executive office at 615 South 43rd Avenue, Phoenix, Arizona 85009,

and

California Independent System Operator Corporation (“CAISO”), a California nonprofit public benefit corporation having a principal executive office located at such place in the State of California as the CAISO Governing Board may from time to time designate, currently 250 Outcropping Way, Folsom, California 95630.

Western and the CAISO are hereinafter referred to individually as “Party” or collectively as the “Parties”.

Whereas:

- A. The Parties are signatories to the Agreement which became effective February 5, 2014.
- B. The Parties desire to revise Schedule 1 to add the City of Anaheim's dynamic schedule of up to 40 MW of hydroelectric generation from Hoover Power Plant into the CAISO Balancing Authority Area. In addition, the Parties desire to revise Schedule 2 to indicate that Schedule 2, Section A.1 is contingent upon the completion of the Rice Solar Energy Project.
- C. The Parties desire to amend the Agreement to allow Schedules 1 and 2 to be modified from time to time by the mutual agreement of the Parties in writing, which would not constitute an amendment to the agreement.

NOW THEREFORE, in consideration of the mutual covenants set forth herein, the Parties agree as follows:

1. Effective Date

This Amendment No. 1 shall be effective on the date accepted for filing and made effective by the Federal Energy Regulatory Commission (FERC).

2. Termination

The terms of this Amendment No. 1 shall remain in full force and effect, unless subsequently amended, until the termination of the Agreement.

3. Amendment to the Agreement

The Agreement shall be amended as follows:

- 3.1** Section 2.2 (Specific Definitions) is deleted in its entirety and replaced with the following:

- “2.2.1 Attaining Balancing Authority Area:** The Balancing Authority Area where the output of a Pseudo-Tie Generating Unit is fully included for purposes of calculation of Area Control Error and meeting Balancing Authority Area load responsibilities.

- 2.2.2 CAISO Dynamic Transfer Protocols:** The CAISO's Dynamic Transfer Protocols, which are set forth in

Appendix M (Dynamic Scheduling Protocol) and Appendix N (Pseudo-Tie Protocol) of the CAISO Tariff.

- 2.2.3 CAISO Tariff:** CAISO Operating Agreement and Tariff, as amended.
- 2.2.4 Congestion:** A characteristic of the transmission system produced by a binding transmission constraint to the optimum economic dispatch to meet demand such that the locational marginal pricing, exclusive of marginal cost of losses, at different locations of the transmission system is not equal.
- 2.2.5 Generating Unit:** An individual electric generator and its associated plant and apparatus whose electrical output is capable of being separately identified and metered or a physical scheduling plant that, in either case, is: (a) located within the CAISO Balancing Authority Area (which includes a Pseudo-Tie of a Generating Unit to the CAISO Balancing Authority Area) or, for purposes of scheduling and operating the real-time market only, an energy imbalance market entity balancing authority area; (b) connected to the CAISO controlled grid, either directly or via interconnected transmission, or distribution facilities or via a Pseudo-Tie; and (c) capable of producing and delivering net energy (energy in excess of a generating station's internal power requirements).
- 2.2.6 Good Utility Practice:** Any of the practices, methods, and acts engaged in or approved by a significant portion of the electric utility industry in the WECC region during the relevant time period, or any of the practices, methods, and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety, and expedition. Good Utility Practice is not intended to be any one of a number of the optimum practices, methods, or acts to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

- 2.2.7 Native Balancing Authority Area:** The Balancing Authority Area where a Pseudo-Tie Generating Unit is physically interconnected to the electric grid.
- 2.2.8 Point of Contact:** A person or entity having the authority to receive and act upon scheduling or dispatch communications from the other Balancing Authority and available through a communications device mutually agreed upon on a 24-hour, 7-day basis.
- 2.2.9 Pseudo-Tie:** A functionality by which the output and/or auxiliary load of a generating facility is telemetered into the Attaining Balancing Authority Area and the generating facility is under the Attaining Balancing Authority jurisdiction, but where the generating facility is electrically interconnected to transmission within the Native Balancing Authority Area in which it is physically located, as provided for under this Agreement.
- 2.2.10 Scheduling Coordinator:** An entity certified by the CAISO for the purposes of undertaking the functions of: submitting bids or schedules for energy, generation, transmission losses, and ancillary services; coordinating generation; tracking, billing, and settling trades with other Scheduling Coordinators; submitting forecast information; paying the CAISO's charges; and ensuring compliance with CAISO protocols.
- 2.2.11 System Emergency:** Conditions beyond the normal control of the CAISO that affect the ability of the CAISO Balancing Authority Area to function normally, including any abnormal system condition which requires immediate manual or automatic action to prevent loss of load, equipment damage, or tripping of system elements which might result in cascading outages or to restore system operation to meet the applicable reliability criteria.
- 2.2.12 System Resource:** "System Resource" is defined in the CAISO Tariff and, in the context of this Agreement, may include combinations of resources as described in the CAISO Dynamic Transfer Protocols."

- 3.2** Section 4.4.5 (Description of System Resources) is deleted in its entirety and replaced with the following:

“4.4.5 Description of System Resources

Each dynamically scheduled System Resource permitted pursuant to this Agreement is described in Schedule 1. Each Party shall provide the other Party the opportunity to comment in writing on any change, modification, or addition to Schedule 1 at least forty-five (45) calendar days prior to the effective date of such revised Schedule 1. Such changes shall not constitute an amendment to this Agreement. Changes, additions, or modifications to Schedule 1 shall be reflected in a new or revised Schedule 1 and will be distributed in accordance with Section 7.3 of the Agreement.”

- 3.3** Section 5.9 is deleted in its entirety and replaced with the following:

“5.9 Each Pseudo-Tie Generating Unit permitted pursuant to this Agreement is described in Schedule 2. Each Party shall provide the other Party the opportunity to comment in writing on any change, modification, or addition to Schedule 2 at least forty-five (45) calendar days prior to the effective date of such revised Schedule 2. Such changes shall not constitute an amendment to this Agreement. Changes, additions, or modifications to Schedule 2 shall be reflected in a new or revised Schedule 2 and will be distributed in accordance with Section 7.3 of the Agreement.”

- 3.4** Section 7.10 (Amendments) is deleted in its entirety and replaced with the following:

“7.10 Amendments

With the exception of Schedules 1, 2, and 3, which do not require an amendment, the remainder of the Agreement may be modified from time to time by the mutual agreement of the Parties through an amendment. Amendments are subject to FERC approval and shall not take effect until FERC has accepted such amendments for filing and has made them effective. Nothing contained herein shall be construed as affecting in any way the right of the Parties to unilaterally make application to FERC for a change in the rates, terms and conditions of this Agreement under Section 205 of the Federal Power Act (FPA) and pursuant to FERC’s rules and regulations promulgated thereunder; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before FERC in which such modifications may be

AMENDMENT NO. 1 TO THE DYNAMIC TRANSFER BALANCING AUTHORITY OPERATING AGREEMENT

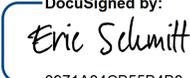
considered. Nothing in this Agreement shall limit the rights of the Parties or of FERC under Sections 205 or 206 of the FPA and FERC's rules and regulations thereunder, except to the extent that the Parties otherwise mutually agree as provided herein."

- 3.5** Schedule 1 (Description of Dynamic Scheduling Resources) is deleted in its entirety and Schedule 1, Revision No. 1 attached to this Amendment No. 1 is substituted in its place.
- 3.6** Schedule 2 (Pseudo-Tie Generating Unit, Pseudo Tie Technical Information, Native and Attaining Balancing Authority Area Information) is deleted in its entirety and Schedule 2, Revision No. 1 attached to this Amendment No. 1 is substituted in its place.
- 4.** This Amendment No. 1 constitutes the complete and final agreement of the Parties with respect to the purpose of this Amendment No. 1 as described in the Recitals hereto and supersedes all prior understandings, whether written or oral, with respect to such subject matter.
- 5.** Except as expressly modified in this Amendment No. 1, the Agreement shall remain in full force and effect in accordance with its terms, and the unmodified terms of the Agreement shall apply to any new rights and/or obligations established by this Amendment No. 1.
- 6.** This Amendment No. 1 may be executed in one (1) or more counterparts at different times, each of which shall be regarded as an original and all of which, taken together, shall constitute one (1) and the same agreement.

AMENDMENT NO. 1 TO THE DYNAMIC TRANSFER BALANCING AUTHORITY OPERATING AGREEMENT

IN WITNESS WHEREOF, the Parties have caused this Amendment No. 1 to the Agreement to be duly executed by and through their respective authorized representatives as of the date hereinabove written.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION

By:  _____
Name: Eric Schmitt _____
Title: VP, Operations _____
Date: 6/22/2016 _____

**DEPARTMENT OF ENERGY, WESTERN AREA POWER ADMINISTRATION
(DESERT SOUTHWEST REGION)**

By: _____
Name: _____
Title: _____
Date: _____

IN WITNESS WHEREOF, the Parties have caused this Amendment No. 1 to the Agreement to be duly executed by and through their respective authorized representatives as of the date hereinabove written.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION

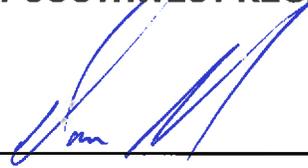
By: _____

Name: _____

Title: _____

Date: _____

**DEPARTMENT OF ENERGY, WESTERN AREA POWER ADMINISTRATION
(DESERT SOUTHWEST REGION)**

By:  _____

Name: Darren Buck

Title: VP of Operations for DSW, CRSP, and RMR

Date: 6/28/2016

SCHEDULE 1, REVISION NO. 1**DESCRIPTION OF DYNAMIC SCHEDULING RESOURCES****[Sections 4.4.5 and 7.3]****A. Dynamic Scheduling System Resources Into the CAISO Balancing Authority Area**

System Resource ID:	SCEHOV_2_HOOVER
Description of System Resource(s), including Associated Power Plants	System Resource is associated with the seventeen (17) hydro Generating Units at Hoover Dam and other resources made available by Western Area Power Administration, Lower Colorado (WALC) for the integration of Hoover Dam Generating Units' electric power output.
PMax Values ¹ :	357 MW
CAISO Intertie:	WALC Mead 230-kV Substation
Host Balancing Authority Area:	WALC Balancing Authority Area
Intermediary Balancing Authority Areas:	N/A

¹ This value represents the maximum amount of power that can be scheduled by the System Resource into the CAISO Balancing Authority Area, and is subject to limitation by Congestion on the scheduling path or System Emergencies that could reduce or eliminate the ability to schedule and transfer power from time-to-time.

AMENDMENT NO. 1 TO THE DYNAMIC TRANSFER BALANCING AUTHORITY OPERATING AGREEMENT

System Resource ID:	AGCANA_X_HOOVER
Description of System Resource(s), including Associated Power Plants	System Resource is associated with the Hoover Power Plant made available by WALC 40 MW
PMax Values ¹	
CAISO Intertie:	WALC Mead 230-kV Substation
Host Balancing Authority Area:	WALC Balancing Authority Area
Intermediary Balancing Authority Areas:	N/A

Prior to the implementation of the changes made to this Schedule 1, Revision No. 1, any funds that are required by Western will be requested in accordance with Section 7.3 of the Agreement.

B. Dynamic Scheduling System Resources Out of the CAISO Balancing Authority Area

There are no Dynamic Scheduling System Resources out of the CAISO Balancing Authority Area.

This Schedule 1, Revision No. 1 shall remain in effect until superseded by written notice from either of the Parties in accordance with Section 4.4.5 of the Agreement.

SCHEDULE 2, REVISION NO. 1²
PSEUDO-TIE GENERATING UNIT, PSEUDO TIE Technical Information
NATIVE and ATTAINING BALANCING AUTHORITY AREA Information

[Section 5.9]

A. Pseudo-Tie Into the CAISO Balancing Authority Area
A.1 Rice Solar Energy Technical Information

Pseudo Tie Location	Location: Rice, CA. South of State Route 62 in unincorporated northeast Riverside County in the Sonora Desert Substation: 161-kV Rice Switching Station ³ Registered TNAME: To Be Determined
Pseudo-Tie Generating Unit	Generating Facility: Rice Solar Energy Project: Solar Thermal – Steam turbine Capacity: 172.50 MW Pmax⁴: 172.50 MW Resource ID: To Be Determined
Attaining Balancing Authority Area	CAISO Balancing Authority Area
Native Balancing Authority Area	WALC Balancing Authority Area
Intertie	Eldorado – Mead 220 kV
Intertie ID	Mead_2_WALC

² Schedule 2, Section A.1 is contingent upon the completion of the Rice Solar Energy Project.

³ The Rice Switching Station will initially be operated at 161-kV and will be operated at 230-kV in the future.

⁴ This value is the unity power factor and represents the maximum amount of power that can be scheduled by the Pseudo-Tie Generating Unit or into the CAISO Balancing Authority Area, and is subject to limitation pursuant to existing contracts regarding transmission service rights on the scheduling path due to System Emergencies, or to provide necessary voltage support, which could temporarily reduce the ability to generate and transfer power to amounts less than Pmax.

B. Pseudo-Tie Out of the CAISO Balancing Authority Area

There are no Pseudo-Ties out of the CAISO Balancing Authority Area.

This Schedule 2, Revision No. 1 shall remain in effect until superseded by written notice from either of the Parties in accordance with Section 5.9 of the Agreement.

SCHEDULE 3, REVISION NO. 1

NOTICES

[Section 7.3]

WALC:

Name of Primary

Representative: Mr. Darren Buck
Title: Operations Manager
Company: Western Area Power Administration
Address: 5555 East Crossroads Boulevard
City/State/Zip Code: Loveland, CO 80538
Email Address: DBuck@wapa.gov
Phone: (970) 461-7693
Fax No: (970) 461-7601

Name of Alternative

Representative: Mr. Peter Heiman
Title: Supervisory Power System Dispatcher
Company: Western Area Power Administration
Address: 615 South 43rd Avenue
City/State/Zip Code: Phoenix, AZ 85009
Email Address: Heiman@wapa.gov
Phone: (602) 605-4475
Fax No: (602) 605-2411

AMENDMENT NO. 1 TO THE DYNAMIC TRANSFER BALANCING AUTHORITY OPERATING AGREEMENT

CAISO:

Name of Primary

Representative: Regulatory Contracts
Title: N/A
Address: 250 Outcropping Way
City/State/Zip Code: Folsom, CA 95630
Email address: regulatorycontracts@caiso.com
Phone: (916) 608-7027
Fax: (916) 608-5063

Name of Alternative

Representative: Mr. Christopher J. Sibley
Title: Manager, Regulatory Contracts
Address: 250 Outcropping Way
City/State/Zip Code: Folsom, CA 95630
Email address: csibley@caiso.com
Phone: (916) 608-7030
Fax: (916) 608-5063

This Schedule 3, Revision No. 1 shall remain in effect until superseded by written notice from either of the Parties in accordance with Section 7.3 of the Agreement.

Attachment B – Clean Agreement
Dynamic Transfer Balancing Authority Operating Agreement
California Independent System Operator Corporation

DYNAMIC TRANSFER BALANCING AUTHORITY OPERATING AGREEMENT

Executed by

WESTERN AREA POWER ADMINISTRATION

DESERT SOUTHWEST REGION

and

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION

This Dynamic Transfer Balancing Authority Operating Agreement (“Agreement”), dated as of _____, 2013, is between the WESTERN AREA POWER ADMINISTRATION DESERT SOUTHWEST REGION (“Western”), having its registered and principal executive office at 615 South 43rd Avenue, Phoenix, Arizona 85009. Western has responsibilities as a Balancing Authority and operates the Western Area Power Administration, Lower Colorado (“WALC”) Balancing Authority area,

and

the CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION (“CAISO”), a California nonprofit public benefit corporation having a principal executive office located at 250 Outcropping Way, Folsom, California 95630. The CAISO has responsibilities as a Balancing Authority and operates the CAISO Balancing Authority Area.

Western and CAISO are referred to herein individually as a “Party” and collectively as the “Parties”.

Recitals

- A) The Parties named above operate Balancing Authority Areas (“Balancing Authority Areas”).
- B) The CAISO has determined that the pilot Pseudo-Tie Program successfully demonstrated the dynamic transfer of generating resources between adjacent Balancing Authority Areas and that this Agreement, and the associated CAISO Tariff revisions and additions, implement the features of the pilot pseudo-tie program.
- C) The Parties wish to coordinate operation of dynamic transfers to satisfy North American Electric Reliability Corporation (“NERC”) and Western

Electricity Coordinating Council (“WECC”) reliability standards and criteria and Good Utility Practice.

- D) The Parties desire to implement an agreement to facilitate dynamic transfers from resources in their respective Balancing Authority Area.
- E) The Parties wish to enter into this Agreement to establish the terms and conditions for the operation of the dynamic transfer functionality to include dynamic schedules and Pseudo-Tie arrangements between the Parties’ Balancing Authority Areas.
- F) This Agreement and the Adjacent Balancing Authority Operating Agreement (“ABAOA”), which is to be executed concurrently with this Agreement between Western and CAISO, shall replace the Interconnected Balancing Authority Area Operating Agreement (“IBAAOA”, Western’s Contract Number 99-DSR-11066). The IBAAOA contained other provisions that are now effectively addressed through the Reliability Standards. The IBAAOA shall be terminated upon the Effective Date of both this Agreement and the ABAOA.
- G) The Parties have certain statutory obligations under NERC and WECC standards and criteria to maintain power system reliability.

The Parties mutually agree as follows:

1. Term and Termination

1.1 Effective Date

This Agreement shall be effective upon acceptance for filing by the Federal Energy Regulatory Commission (“FERC”) pursuant to a filing by the CAISO (the “Effective Date”), and shall continue in effect until terminated.

1.2 Termination

This Agreement may be terminated by either Party upon two (2) years written notice to the other Party or upon mutual consent of both Parties. For entities subject to FERC jurisdiction, termination will be effective upon acceptance by FERC of notice of termination, if this Agreement has been filed with FERC, or two (2) years after the date of the notice of termination by a Party, if terminated in accordance with the requirements of FERC Order No. 2001 and related FERC orders. The CAISO shall timely file any required notice of termination with FERC. The filing of the notice of

termination by the CAISO with FERC will be considered timely if: (1) the filing of the notice of termination is made after the preconditions for termination have been met, and the CAISO files the notice of termination with FERC within sixty (60) days after issuance of the notice of termination by a Party; or (2) the CAISO files the notice of termination with FERC in accordance with the requirements of FERC Order No. 2001.

2. **Definitions**

2.1 **NERC Definitions**

Except as defined below, terms and expressions used in this Agreement shall have the same meanings as those contained in the NERC Glossary of Terms Used in NERC Reliability Standards.

2.2 **Specific Definitions**

2.2.1 Attaining Balancing Authority Area: The Balancing Authority Area where the output of a Pseudo-Tie Generating Unit is fully included for purposes of calculation of Area Control Error and meeting Balancing Authority Area load responsibilities.

2.2.2 CAISO Dynamic Transfer Protocols: The CAISO's Dynamic Transfer Protocols, which are set forth in

Appendix M (Dynamic Scheduling Protocol) and Appendix N (Pseudo-Tie Protocol) of the CAISO Tariff.

- 2.2.3 CAISO Tariff:** CAISO Operating Agreement and Tariff, as amended.
- 2.2.4 Congestion:** A characteristic of the transmission system produced by a binding transmission constraint to the optimum economic dispatch to meet demand such that the locational marginal pricing, exclusive of marginal cost of losses, at different locations of the transmission system is not equal.
- 2.2.5 Generating Unit:** An individual electric generator and its associated plant and apparatus whose electrical output is capable of being separately identified and metered or a physical scheduling plant that, in either case, is: (a) located within the CAISO Balancing Authority Area (which includes a Pseudo-Tie of a Generating Unit to the CAISO Balancing Authority Area) or, for purposes of scheduling and operating the real-time market only, an energy imbalance market entity balancing authority area; (b) connected to the CAISO controlled grid, either directly or via interconnected transmission, or distribution facilities or via a Pseudo-Tie; and (c) capable of producing and delivering net energy (energy in excess of a generating station's internal power requirements).
- 2.2.6 Good Utility Practice:** Any of the practices, methods, and acts engaged in or approved by a significant portion of the electric utility industry in the WECC region during the relevant time period, or any of the practices, methods, and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety, and expedition. Good Utility Practice is not intended to be any one of a number of the optimum practices, methods, or acts to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

- 2.2.7 Native Balancing Authority Area:** The Balancing Authority Area where a Pseudo-Tie Generating Unit is physically interconnected to the electric grid.
- 2.2.8 Point of Contact:** A person or entity having the authority to receive and act upon scheduling or dispatch communications from the other Balancing Authority and available through a communications device mutually agreed upon on a 24-hour, 7-day basis.
- 2.2.9 Pseudo-Tie:** A functionality by which the output and/or auxiliary load of a generating facility is telemetered into the Attaining Balancing Authority Area and the generating facility is under the Attaining Balancing Authority jurisdiction, but where the generating facility is electrically interconnected to transmission within the Native Balancing Authority Area in which it is physically located, as provided for under this Agreement.
- 2.2.10 Scheduling Coordinator:** An entity certified by the CAISO for the purposes of undertaking the functions of: submitting bids or schedules for energy, generation, transmission losses, and ancillary services; coordinating generation; tracking, billing, and settling trades with other Scheduling Coordinators; submitting forecast information; paying the CAISO's charges; and ensuring compliance with CAISO protocols.
- 2.2.11 System Emergency:** Conditions beyond the normal control of the CAISO that affect the ability of the CAISO Balancing Authority Area to function normally, including any abnormal system condition which requires immediate manual or automatic action to prevent loss of load, equipment damage, or tripping of system elements which might result in cascading outages or to restore system operation to meet the applicable reliability criteria.
- 2.2.12 System Resource:** "System Resource" is defined in the CAISO Tariff and, in the context of this Agreement, may include combinations of resources as described in the CAISO Dynamic Transfer Protocols.

3. **General**

3.1 **Purpose**

This Agreement sets forth the requirements that must be satisfied by the Parties to support Scheduling Coordinators' and generating unit owners' requests for implementation of dynamic transfer functionality and delivery of energy and energy associated with ancillary services to the respective Balancing Authority Area. The requirements encompass technical (energy management system ("EMS"), automatic generation control ("AGC"), and communications, interchange scheduling, telemetry, and aspects of Balancing Authority Area operations. Nothing in this Agreement is

intended to interfere with the rights of an affected transmission owner or transmission operator in the WALC Balancing Authority Area to determine its own terms of service associated with the facilitation of dynamic transfer by WALC.

3.2 NERC/WECC Operating Standards Observed

Nothing in this Agreement is intended to change, supersede, or alter either Party's obligations to abide by NERC and WECC reliability standards and policies and WECC criteria.

3.3 Applicable Standards

This Agreement incorporates, by reference, the CAISO Dynamic Transfer Protocols and Standards for Imports of Regulation. Where there is an inconsistency between the CAISO's Dynamic Transfer Protocols and Standards for Imports of Regulation and this Agreement, this Agreement will prevail to the extent of the inconsistency.

3.4 Coordination and Communication

Each Party operates and maintains, or provides for operation and maintenance on a 24-hour, 7-day control center with real-time scheduling and control functions. The appropriate control center staff shall be responsible for operational communications and shall have sufficient authority to commit and bind that Party on decisions relating to emergency operations. The Parties agree to exchange operational contact information for insuring reliable communication in a format to be agreed to by the Parties and completed as of the Effective Date of this Agreement. Each Party shall provide the other Party ten (10) calendar days advance notice of updates to its operational contact information for known changes, and as soon as practical, for unplanned changes.

4. **Dynamic Schedules of Imports and Exports**

Should the Parties elect to support a Scheduling Coordinators' request to implement dynamic scheduling functionality, all applicable operating, technical and business requirements set forth in Appendix M of the CAISO Tariff shall be satisfied, including, but not limited to, the following:

4.1 **Telecommunications Requirements**

The Parties shall establish and maintain real-time, redundant, diversely routed, communications links between the CAISO EMS and the WALC EMS, with the primary link utilizing the standard inter-control center communications protocol ("ICCP") in accordance with the Applicable Standards for the dynamically scheduled resources listed in Schedule 1.

4.2 **Telemetry**

For each operating hour for which a dynamically scheduled resource is delivering energy, and/or energy associated with ancillary services to the receiving Balancing Authority Area, the Host Balancing Authority shall provide, via the ICCP communication links to the receiving Balancing Authority EMS, the data for each dynamically scheduled resource, as set forth in the Applicable Standards.

4.3 **Interchange Scheduling Requirements**

4.3.1 **Dynamic Schedules**

The Parties shall coordinate the arrangements for dynamic interchange schedules for the delivery of energy to the respective Balancing Authority Area reflecting the dynamically scheduled resource's instantaneous energy production or allocation level and taking into account available transmission capacity and, in the case of WALC, the impact of dynamic interchange schedules on transmission owner(s) and transmission operator(s) within the WALC Balancing Authority Area.

4.3.2 **Treatment of Area Control Error ("ACE")**

For Dynamic Scheduling, the Host Balancing Authority shall instantaneously compensate its AGC for the dynamically scheduled resource's energy output that is generated or allocated for establishing the dynamic schedule to the receiving Balancing Authority such that the dynamically

scheduled resource energy production or allocation changes have an equal in magnitude and opposite in sign effect on the Host Balancing Authority's ACE.

4.3.3 Integration of Dynamic Schedules

For each operating hour during which energy was dynamically scheduled for delivery to the receiving Balancing Authority Area, the Host Balancing Authority shall compute an integrated amount of interchange based on the dynamically scheduled resource's integrated energy production, by integrating the instantaneous dynamically scheduled resource production levels. Such integrated MWH value shall be agreed to hourly by the real-time schedulers.

4.3.4 Regulation Obligation

The Host Balancing Authority shall be responsible for regulation obligation for the portion of the dynamically scheduled resource's output not dynamically scheduled into the receiving Balancing Authority Area in accordance with WECC and NERC reliability standards. Dynamic energy deliveries to the receiving Balancing Authorities will be used to determine pro rata allocations of real time deviations applicable to each Balancing Authority that receives the dynamically scheduled generation.

4.3.5 Access to Information

The Parties agree to exchange information related to telemetry sent and received with respect to the delivery of energy (i) at the request of the other Party for purposes of after-the-fact interchange accounting or (ii) on demand for any other purpose.

4.3.6 Other Balancing Authority Responsibilities

4.3.6.1 Operational Jurisdiction

The Host Balancing Authority will have, at a minimum, the level of operational jurisdiction over the dynamically scheduled resource and the associated dynamic schedule that NERC and WECC vest in Host Balancing Authorities. Such level of operational jurisdiction shall not exceed that necessary to meet applicable reliability standards.

4.3.6.2 **E-Tagging**

The Parties must support associated e-tagging as described in the CAISO Dynamic Transfer Protocols and deemed to be consistent with NERC and/or WECC requirements.

4.3.6.3 **Real-Time Adjustments**

The Host Balancing Authority Area for a dynamically transferred resource must have a means to manually override and/or otherwise adjust the dynamic signal for a dynamic schedule in real-time, if needed.

4.3.6.4 **Coordination with Other Balancing Authorities**

The Balancing Authority Area hosting a dynamic resource must provide in real-time the instantaneous value of each dynamic schedule to every intermediary Balancing Authority Area through whose systems such dynamic schedule may be implemented to the receiving Balancing Authority.

4.4 **Other**

4.4.1 **Losses**

The Parties shall not be responsible for transmission losses caused by transmitting energy dynamically within or across the other Parties Balancing Authority Area.

4.4.2 **Certification**

Only CAISO-certified System Resource/Host Balancing Authority arrangements will be allowed to bid or self provide ancillary services in the CAISO's ancillary services market through a CAISO-certified Scheduling Coordinator.

4.4.3 **No Guarantee of Award**

Certification of a System Resource/Host Balancing Authority arrangement allows for bidding of energy and/or certain ancillary services into the CAISO market; it does not, however, guarantee selection of such bid.

4.4.4 Performance Assessment

The CAISO will monitor and measure dynamically imported ancillary services, whether bid or self-provided, against the performance benchmarks described in the CAISO Dynamic Scheduling Protocol.

4.4.5 Description of System Resources

Each dynamically scheduled System Resource permitted pursuant to this Agreement is described in Schedule 1. Each Party shall provide the other Party the opportunity to comment in writing on any change, modification, or addition to Schedule 1 at least forty-five (45) calendar days prior to the effective date of such revised Schedule 1. Such changes shall not constitute an amendment to this Agreement. Changes, additions, or modifications to Schedule 1 shall be reflected in a new or revised Schedule 1 and will be distributed in accordance with Section 7.3 of the Agreement

4.4.6 Notifications

The Parties shall jointly develop methods for coordinating the notification of all affected scheduling entities within their respective Balancing Authority Areas regarding schedule changes in emergency or curtailment conditions.

5. Pseudo-Ties

Should the Parties elect to support a Pseudo-Tie generator's request to implement a Pseudo-Tie arrangement, the Parties shall comply with the applicable provisions of the Pseudo-Tie Protocol in Appendix N of the CAISO Tariff, including, but not limited, to the following:

- 5.1 Operation of Pseudo-Tie functionalities must comply with all applicable NERC and WECC reliability standards, policies, requirements, and guidelines regarding inter-Balancing Authority Area scheduling. A Pseudo-Tie must be registered as a Point Of Delivery ("POD") on North American Energy Standards Board's (NAESB's Electric Industry Registry ("EIR"). All (off-system) static scheduling associated with Pseudo-Tie functionality must be consistent with NERC Reliability Standards for interchange scheduling and coordination.
- 5.2 The Parties will establish the terms of any Pseudo-Tie between the two Balancing Authority Areas, will specify the location of that Pseudo-Tie point, and will register that location as a POD to the Attaining Balancing Authority Area.

- 5.3 All energy transfers associated with a Pseudo-Tie generating unit must be electronically tagged (E-tagged).
- 5.4 Unless a particular service is procured by the Pseudo-Tie generator from some other source, the Attaining Balancing Authority shall provide to a Pseudo-Tie generating unit all Balancing Authority

services available to other generating units in the Attaining Balancing Authority Area, which may include the auxiliary load equipment needs of the Pseudo-Tie generating unit, provided firm transmission service is reserved across the transmission path from the CAISO Intertie to the Pseudo-Tie generating unit.

- 5.5 The Parties, in conjunction with the affected Participating Transmission Owner, or, in the case of WALC, affected transmission owner(s) and transmission operator(s) within the WALC Balancing Authority Area and the owner of the Pseudo-Tie generating unit will develop a coordinated operating procedure outlining the agreed upon framework among all parties for the operation of a Pseudo-Tie of the generating unit out of the CAISO Balancing Authority Area, and to facilitate the continued delivery of Energy and Ancillary Services from a Pseudo-Tie generating unit into the CAISO Balancing Authority Area to the desired delivery points in the event the primary contract path is unavailable or curtailed.
- 5.6 All applicable communication and telemetry requirements of the WECC, the CAISO, and a Pseudo-Tie generating unit's Native Balancing Authority Area regarding generating units and inter-Balancing Authority Area Interties must be satisfied. These requirements include the requirements of Appendix M applicable to Dynamic Schedules of imports and the requirements of the CAISO Tariff applicable to generating units in the CAISO Balancing Authority Area.
- 5.7 Proper incorporation of the dynamic signal into all involved Balancing Authority Areas' ACE equations will be required.
- 5.8 Should there be any need or requirement, whether operational or procedural, for the CAISO or the Balancing Authority for the Attaining Balancing Authority Area to make real-time adjustments to the CAISO's inter-Balancing Authority Area schedules at the pre-existing CAISO Intertie associated with the Pseudo-Tie generating unit (including curtailments), the dynamic transfer from the Pseudo-Tie generating unit shall be treated in the same manner as any CAISO Interchange Schedule at that pre-existing CAISO Intertie, and in accordance with any applicable operating instructions from any affected Participating Transmission Owner.
- 5.9** Each Pseudo-Tie Generating Unit permitted pursuant to this Agreement is described in Schedule 2. Each Party shall provide the other Party the opportunity to comment in writing on any change, modification, or addition to Schedule 2 at

least forty-five (45) calendar days prior to the effective date of such revised Schedule 2. Such changes shall not constitute an amendment to this Agreement. Changes, additions, or modifications to Schedule 2 shall be reflected in a new or revised Schedule 2 and will be distributed in accordance with Section 7.3 of the Agreement.

6. **Liability**

6.1 **Uncontrollable Forces**

An Uncontrollable Force means any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm, flood, earthquake, explosion, any curtailment, order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond the reasonable control of a Balancing Authority which could not be avoided through the exercise of Good Utility Practice.

Neither Party will be considered in default of any obligation under this Agreement or liable to the other for direct, indirect, and consequential damages if prevented from fulfilling that obligation due to the occurrence of an Uncontrollable Force. Neither Party will be considered in default of any obligation under this Agreement to the extent caused by any act, or failure to act, of any intermediary Balancing Authority. In the event of the occurrence of an Uncontrollable Force, which prevents either Party from performing any obligations under this Agreement, the affected entity shall not be entitled to suspend performance of its obligations in any greater scope or for any longer duration than is required by the Uncontrollable Force. The Parties shall each use its best efforts to mitigate the effects of such Uncontrollable Force, remedy its inability to perform, and resume full performance of its obligations hereunder.

6.2 **Liability To Third Parties**

Except as otherwise expressly provided herein, nothing in this Agreement shall be construed or deemed to confer any right or benefit on, or to create any duty to, or standard of care with reference to any third party, or any liability or obligation, contractual or otherwise, on the part of either Party.

6.3 **Liability Between the Parties**

The Parties' duties and standard of care with respect to each other, and the benefits and rights conferred on each other, shall be no greater than as explicitly stated herein. Neither Party, its directors, officers, employees, or agents, shall be liable to the other Party for any loss, damage, claim, cost, charge, or expense, whether direct, indirect, or consequential, arising from the Party's performance or nonperformance under this Agreement, except for a Party's gross negligence, or willful misconduct.

7. Miscellaneous

7.1 Exchange of Information and Confidentiality

When a Party (“Providing Party”) provides information to the other Party (“Receiving Party”) under this Agreement and marks such information as privileged or confidential commercial or financial information, critical energy infrastructure information, or trade secret information, the Receiving Party shall treat such information as confidential and protected from disclosure to the extent permitted by law. The Receiving Party shall promptly notify the Providing Party in writing of any request to release such information. The Parties agree to use such information only for purposes of performing each Party’s obligations under this Agreement. The provisions of this Section 7.1 shall survive the termination of this Agreement.

7.2 Assignment and Successors

Either Party to this Agreement may assign its obligations under this Agreement, with the other Party’s prior written consent. Such consent shall not be unreasonably withheld.

Obligations and liabilities under this Agreement shall be binding on the successors and assigns of the Parties. No assignment of this Agreement shall relieve the assigning Party from any obligation or liability under this Agreement arising or accruing prior to the date of assignment.

7.3 Notices

Any notice, demand, or request which may be given to or made upon either Party regarding this Agreement shall be made in writing and shall be deemed properly served, given, or made: (a) upon delivery if delivered in person, (b) five (5) days after deposit in the mail if sent by first class United States mail, postage prepaid, (c) upon receipt of confirmation by return facsimile if sent by facsimile, or (d) upon delivery if delivered by prepaid commercial courier service. A Party must update the information in Schedule 3 relating to its address as that information changes. Such updates to Schedule 3 shall not constitute an amendment to this Agreement.

7.4 Waivers

Any waiver at any time by either Party of its rights with respect to any default under this Agreement, or with respect to any other

matter arising in connection with this Agreement, shall not constitute or be deemed a waiver with respect to any subsequent default or matter arising in connection with this Agreement. Any delay short of the statutory period of limitations, in asserting or enforcing any right under this Agreement, shall not constitute or be deemed a waiver of such right.

7.5 Governing Law and Forum

Subject to Section 7.6, this Agreement shall be deemed to be a contract made under and for all purposes shall be governed by and construed in accordance with the laws of the State of California or the laws of the United States, as applicable, except that if a dispute concerns the operation of transmission lines or facilities, the law of the state where the transmission lines or facilities are located or the laws of the United States, as applicable, will control. The Parties irrevocably consent that any legal action or proceeding arising under or relating to this Agreement shall be brought in any of the following forums, as appropriate: any federal court of the United States of America located in the State of California or, where subject to its jurisdiction, before FERC. No provision of this Agreement shall be deemed to waive the right of any Party to protest, or challenge in any manner, whether this Agreement, or any action or proceeding arising under or relating to this Agreement, is subject to the jurisdiction of FERC.

7.6 Consistency with Federal Laws and Regulations

- (a) Nothing in this Agreement shall compel any person or federal entity to: (1) violate federal statutes or regulations; or (2) in the case of a federal agency, to exceed its statutory authority, as defined by any applicable federal statutes, regulations, or orders lawfully promulgated thereunder. If any provision of this Agreement is inconsistent with any obligation imposed on any person or federal entity by federal law or regulation to that extent, it shall be inapplicable to that person or federal entity. No person or federal entity shall incur any liability by failing to comply with any provision of this Agreement that is inapplicable to it by reason of being inconsistent with any federal statutes, regulations, or orders lawfully promulgated thereunder; provided, however, that such person or federal entity shall use its best efforts to comply with the CAISO Tariff to the extent that applicable federal laws, regulations, and orders lawfully promulgated thereunder permit it to do so.
- (b) If any provision of this Agreement requiring any person or federal entity to give an indemnity or impose a sanction on any person is

unenforceable against a federal entity, the CAISO shall submit to the Secretary of Energy or other appropriate Departmental Secretary a report of any circumstances that would, but for this provision, have rendered a federal entity liable to indemnify any person or incur a sanction and may request the Secretary of Energy or other appropriate Departmental Secretary to take such steps as are necessary to give effect to any provisions of this Agreement that are not enforceable against the federal entity.

7.7 No Warranties or Representations; Disclaimer

All information, including confidential information, provided by a Party (“Providing Party”) to the other Party (“Receiving Party”) under this Agreement carries no warranty or representation of any kind, either express or implied. The Receiving Party receives the information “as is” and with all faults, errors, defects, inaccuracies, and omissions. The Providing Party makes no representations or warranties whatsoever with respect to the availability, timeliness, accuracy, reliability, or suitability of any information. The Receiving Party disclaims and waives all rights and remedies that it may otherwise have with respect to all warranties and liabilities of the Providing Party, expressed or implied, arising by law or otherwise, with respect to any faults, errors, defects, inaccuracies or omissions in, or availability, timeliness, reliability, or suitability of the information. Each Party assumes any and all risk and responsibility for selection and use of, and reliance on, any information provided under this Agreement.

7.8 Severability

If any term, covenant, or condition of this Agreement or the application or effect of any such term, covenant, or condition is held invalid as to any person, entity, or circumstance, or is determined to be unjust, unreasonable, unlawful, imprudent, or otherwise not in the public interest by any court or government agency of competent jurisdiction, then such term, covenant, or condition shall remain in force and effect to the maximum extent permitted by law, and all other terms, covenants, and conditions of this Agreement and their application shall not be affected thereby, but shall remain in force and effect and the parties shall be relieved of their obligations only to the extent necessary to eliminate such regulatory or other determination unless a court or governmental agency of competent jurisdiction holds that such provisions are not separable from all other provisions of this Agreement.

7.9 Section Headings

Section headings provided in this Agreement are for ease of reading and are not meant to interpret the text in each Section.

7.10 Amendments

With the exception of Schedules 1, 2, and 3, which do not require an amendment, the remainder of the Agreement may be modified from time to time by the mutual agreement of the Parties through an amendment. Amendments are subject to FERC approval and shall not take effect until FERC has accepted such amendments for filing and has made them effective. Nothing contained herein shall be construed as affecting in any way the right of the Parties to unilaterally make application to FERC for a change in the rates, terms and conditions of this Agreement under Section 205 of the Federal Power Act (FPA) and pursuant to FERC's rules and regulations promulgated thereunder; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before FERC in which such modifications may be

considered. Nothing in this Agreement shall limit the rights of the Parties or of FERC under Sections 205 or 206 of the FPA and FERC's rules and regulations thereunder, except to the extent that the Parties otherwise mutually agree as provided herein.

7.11 Counterparts

This Agreement may be executed in one (1) 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 Agreement.

7.12 **Authority**

Each individual signing this Agreement certifies that the Party represented has duly authorized such individual to sign, bind, and obligate such Party.

Accepted and agreed to by:

California Independent System Operator Corporation

Department of Energy,
Western Area Power Administration

By:

By:

Name:

Name:

Title:

Title:

Date:

Date:

SCHEDULE 1, REVISION NO. 1

DESCRIPTION OF DYNAMIC SCHEDULING RESOURCES

[Sections 4.4.5 and 7.3]

A. Dynamic Scheduling System Resources Into the CAISO Balancing Authority Area

System Resource ID:	SCEHOV_2_HOOVER
Description of System Resource(s), including Associated Power Plants	System Resource is associated with the seventeen (17) hydro Generating Units at Hoover Dam and other resources made available by Western Area Power Administration, Lower Colorado (WALC) for the integration of Hoover Dam Generating Units' electric power output.
PMax Values ¹ :	357 MW
CAISO Intertie:	WALC Mead 230-kV Substation
Host Balancing Authority Area:	WALC Balancing Authority Area
Intermediary Balancing Authority Areas:	N/A

¹ This value represents the maximum amount of power that can be scheduled by the System Resource into the CAISO Balancing Authority Area, and is subject to limitation by Congestion on the scheduling path or System Emergencies that could reduce or eliminate the ability to schedule and transfer power from time-to-time.

System Resource ID:	AGCANA_X_HOOVER
Description of System Resource(s), including Associated Power Plants	System Resource is associated with the Hoover Power Plant made available by WALC 40 MW
PMax Values ¹	
CAISO Intertie:	WALC Mead 230-kV Substation
Host Balancing Authority Area:	WALC Balancing Authority Area
Intermediary Balancing Authority Areas:	N/A

Prior to the implementation of the changes made to this Schedule 1, Revision No. 1, any funds that are required by Western will be requested in accordance with Section 7.3 of the Agreement.

B. Dynamic Scheduling System Resources Out of the CAISO Balancing Authority Area

There are no Dynamic Scheduling System Resources out of the CAISO Balancing Authority Area.

This Schedule 1, Revision No. 1 shall remain in effect until superseded by written notice from either of the Parties in accordance with Section 4.4.5 of the Agreement.

SCHEDULE 2, REVISION NO. 1²

PSEUDO-TIE GENERATING UNIT, PSEUDO TIE Technical Information

NATIVE and ATTAINING BALANCING AUTHORITY AREA Information

[Section 5.9]

A. Pseudo-Tie Into the CAISO Balancing Authority Area

A.1 Rice Solar Energy Technical Information

Pseudo Tie Location	<p>Location: Rice, CA. South of State Route 62 in unincorporated northeast Riverside County in the Sonora Desert</p> <p>Substation: 161-kV Rice Switching Station³</p> <p>Registered TNAME: To Be Determined</p>
Pseudo-Tie Generating Unit	<p>Generating Facility: Rice Solar Energy Project: Solar Thermal – Steam turbine</p> <p>Capacity: 172.50 MW</p> <p>Pmax⁴: 172.50 MW</p> <p>Resource ID: To Be Determined</p>
Attaining Balancing Authority Area	CAISO Balancing Authority Area
Native Balancing Authority Area	WALC Balancing Authority Area
Intertie	Eldorado – Mead 220 kV
Intertie ID	Mead_2_WALC

² Schedule 2, Section A.1 is contingent upon the completion of the Rice Solar Energy Project.

³ The Rice Switching Station will initially be operated at 161-kV and will be operated at 230-kV in the future.

⁴ This value is the unity power factor and represents the maximum amount of power that can be scheduled by the Pseudo-Tie Generating Unit or into the CAISO Balancing Authority Area, and is subject to limitation pursuant to existing contracts regarding transmission service rights on the scheduling path due to System Emergencies, or to provide necessary voltage support, which could temporarily reduce the ability to generate and transfer power to amounts less than Pmax.

B. Pseudo-Tie Out of the CAISO Balancing Authority Area

There are no Pseudo-Ties out of the CAISO Balancing Authority Area.

This Schedule 2, Revision No. 1 shall remain in effect until superseded by written notice from either of the Parties in accordance with Section 5.9 of the Agreement.

SCHEDULE 3

NOTICES

[Section 7.3]

WALC:

Name of Primary

Representative: Mr. Darren Buck
Title: Operations Manager
Company: Western Area Power Administration
Address: 5555 East Crossroads Boulevard
City/State/Zip Code Loveland, CO 80538
Email Address: DBuck@wapa.gov
Phone: (970) 461-7693
Fax No: (970) 461-7601

Name of Alternative

Representative: Mr. Steve Johnson
Title: Supervisory Power System Dispatcher
Company: Western Area Power Administration
Address: 5555 East Crossroads Boulevard
City/State/Zip Code: Loveland, CO 80538
Email Address: Johnsons@wapa.gov
Phone: (970) 461-7451
Fax No: (970) 461-7601

CAISO:

Name of Primary

Representative: Regulatory Contracts

Title: N/A

Address: 250 Outcropping Way

City/State/Zip Code: Folsom, CA 95630

Email address: regulatorycontracts@caiso.com

Phone: (916) 608-7027

Fax: (916) 608-7292

Name of Alternative

Representative: Mr. Christopher J. Sibley

Title: Lead Contract Negotiator

Address: 250 Outcropping Way

City/State/Zip Code: Folsom, CA 95630

Email address: csibley@caiso.com

Phone: (916) 608-7030

Fax: (916) 608-7292

This Attachment shall remain in effect until superseded by written notice from either of the Parties.

Attachment C – Marked Agreement
Dynamic Transfer Balancing Authority Operating Agreement
California Independent System Operator Corporation

DYNAMIC TRANSFER BALANCING AUTHORITY OPERATING AGREEMENT

Executed by

WESTERN AREA POWER ADMINISTRATION

DESERT SOUTHWEST REGION

and

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION

This Dynamic Transfer Balancing Authority Operating Agreement (“Agreement”), dated as of _____, 2013, is between the WESTERN AREA POWER ADMINISTRATION DESERT SOUTHWEST REGION (“Western”), having its registered and principal executive office at 615 South 43rd Avenue, Phoenix, Arizona 85009. Western has responsibilities as a Balancing Authority and operates the Western Area Power Administration, Lower Colorado (“WALC”) Balancing Authority area,

and

the CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION (“CAISO”), a California nonprofit public benefit corporation having a principal executive office located at 250 Outcropping Way, Folsom, California 95630. The CAISO has responsibilities as a Balancing Authority and operates the CAISO Balancing Authority Area.

Western and CAISO are referred to herein individually as a “Party” and collectively as the “Parties”.

Recitals

- A) The Parties named above operate Balancing Authority Areas (“Balancing Authority Areas”).
- B) The CAISO has determined that the pilot Pseudo-Tie Program successfully demonstrated the dynamic transfer of generating resources between adjacent Balancing Authority Areas and that this Agreement, and the associated CAISO Tariff revisions and additions, implement the features of the pilot pseudo-tie program.
- C) The Parties wish to coordinate operation of dynamic transfers to satisfy North American Electric Reliability Corporation (“NERC”) and Western

Electricity Coordinating Council (“WECC”) reliability standards and criteria and Good Utility Practice.

- D) The Parties desire to implement an agreement to facilitate dynamic transfers from resources in their respective Balancing Authority Area.
- E) The Parties wish to enter into this Agreement to establish the terms and conditions for the operation of the dynamic transfer functionality to include dynamic schedules and Pseudo-Tie arrangements between the Parties’ Balancing Authority Areas.
- F) This Agreement and the Adjacent Balancing Authority Operating Agreement (“ABAOA”), which is to be executed concurrently with this Agreement between Western and CAISO, shall replace the Interconnected Balancing Authority Area Operating Agreement (“IBAAOA”, Western’s Contract Number 99-DSR-11066). The IBAAOA contained other provisions that are now effectively addressed through the Reliability Standards. The IBAAOA shall be terminated upon the Effective Date of both this Agreement and the ABAOA.
- G) The Parties have certain statutory obligations under NERC and WECC standards and criteria to maintain power system reliability.

The Parties mutually agree as follows:

1. Term and Termination

1.1 Effective Date

This Agreement shall be effective upon acceptance for filing by the Federal Energy Regulatory Commission (“FERC”) pursuant to a filing by the CAISO (the “Effective Date”), and shall continue in effect until terminated.

1.2 Termination

This Agreement may be terminated by either Party upon two (2) years written notice to the other Party or upon mutual consent of both Parties. For entities subject to FERC jurisdiction, termination will be effective upon acceptance by FERC of notice of termination, if this Agreement has been filed with FERC, or two (2) years after the date of the notice of termination by a Party, if terminated in accordance with the requirements of FERC Order No. 2001 and related FERC orders. The CAISO shall timely file any required notice of termination with FERC. The filing of the notice of

termination by the CAISO with FERC will be considered timely if: (1) the filing of the notice of termination is made after the preconditions for termination have been met, and the CAISO files the notice of termination with FERC within sixty (60) days after issuance of the notice of termination by a Party; or (2) the CAISO files the notice of termination with FERC in accordance with the requirements of FERC Order No. 2001.

2. Definitions

2.1 NERC Definitions

Except as defined below, terms and expressions used in this Agreement shall have the same meanings as those contained in the NERC Glossary of Terms Used in NERC Reliability Standards.

2.2 Specific Definitions

2.2.1 Attaining Balancing Authority Area: The Balancing Authority Area where the output of a Pseudo-Tie Generating Unit is fully included for purposes of calculation of Area Control Error and meeting Balancing Authority Area load responsibilities.

2.2.2 CAISO Dynamic Transfer Protocols: The CAISO's Dynamic Transfer Protocols, which are set forth in

Appendix M (Dynamic Scheduling Protocol) and Appendix N (Pseudo-Tie Protocol) of the CAISO Tariff.

2.2.3 CAISO Tariff: CAISO Operating Agreement and Tariff, as amended.

2.2.4 Congestion: A characteristic of the transmission system produced by a binding transmission constraint to the optimum economic dispatch to meet demand such that the locational marginal pricing, exclusive of marginal cost of losses, at different locations of the transmission system is not equal.

2.2.5 Generating Unit: An individual electric generator and its associated plant and apparatus whose electrical output is capable of being separately identified and metered or a physical scheduling plant that, in either case, is: (a) located within the CAISO Balancing Authority Area (which includes a Pseudo-Tie of a Generating Unit to the CAISO Balancing Authority Area) or, for purposes of scheduling and operating the real-time market only, an energy imbalance market entity balancing authority area; (b) connected to the CAISO controlled grid, either directly or via interconnected transmission, or distribution facilities or via a Pseudo-Tie; and (c) capable of producing and delivering net energy (energy in excess of a generating station's internal power requirements).

2.2.6 Good Utility Practice: Any of the practices, methods, and acts engaged in or approved by a significant portion of the electric utility industry in the WECC region during the relevant time period, or any of the practices, methods, and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety, and expedition. Good Utility Practice is not intended to be any one of a number of the optimum practices, methods, or acts to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

2.2.7 Native Balancing Authority Area: The Balancing Authority Area where a Pseudo-Tie Generating Unit is physically interconnected to the electric grid.

2.2.8 Point of Contact: A person or entity having the authority to receive and act upon scheduling or dispatch communications from the other Balancing Authority and available through a communications device mutually agreed upon on a 24-hour, 7-day basis.

2.2.9 Pseudo-Tie: A functionality by which the output and/or auxiliary load of a generating facility is telemetered into the Attaining Balancing Authority Area and the generating facility is under the Attaining Balancing Authority jurisdiction, but where the generating facility is electrically interconnected to transmission within the Native Balancing Authority Area in which it is physically located, as provided for under this Agreement.

2.2.10 Scheduling Coordinator: An entity certified by the CAISO for the purposes of undertaking the functions of: submitting bids or schedules for energy, generation, transmission losses, and ancillary services; coordinating generation; tracking, billing, and settling trades with other Scheduling Coordinators; submitting forecast information; paying the CAISO's charges; and ensuring compliance with CAISO protocols.

2.2.11 System Emergency: Conditions beyond the normal control of the CAISO that affect the ability of the CAISO Balancing Authority Area to function normally, including any abnormal system condition which requires immediate manual or automatic action to prevent loss of load, equipment damage, or tripping of system elements which might result in cascading outages or to restore system operation to meet the applicable reliability criteria.

2.2.12 System Resource: "System Resource" is defined in the CAISO Tariff and, in the context of this Agreement, may include combinations of resources as described in the CAISO Dynamic Transfer Protocols.

2.2—Specific Definitions

- ~~2.2.1 **Attaining Balancing Authority Area:** The Balancing Authority Area where the output of a Pseudo-Tie generating unit is fully included for purposes of calculation of Area Control Error and meeting Balancing Authority Area load responsibilities.~~
- ~~2.2.2 **CAISO Dynamic Transfer Protocols:** The CAISO's Dynamic Transfer Protocols, which are set forth in Appendix M (Dynamic Scheduling Protocol) and Appendix N (Pseudo-Tie Protocol) of the CAISO Tariff.~~
- ~~2.2.3 **CAISO Tariff:** CAISO Operating Agreement and Tariff, as amended.~~
- ~~2.2.4 **Good Utility Practice:** Any of the practices, methods, and acts engaged in or approved by a significant portion of the electric utility industry in the WECC region during the relevant time period, or any of the practices, methods, and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety, and expedition. Good Utility Practice is not intended to be any one of a number of the optimum practices, methods, or acts to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.~~

~~2.2.5 **Native Balancing Authority Area:** The Balancing Authority Area where a Pseudo-Tie generating unit is physically interconnected to the electric grid.~~

~~2.2.6 **Point of Contact:** A person or entity having the authority to receive and act upon scheduling or dispatch communications from the other Balancing Authority and available through a communications device mutually agreed upon on a 24-hour, 7-day basis.~~

~~2.2.7 **Pseudo-Tie:** A functionality by which the output and/or auxiliary load of a generating facility is telemetered into the Attaining Balancing Authority Area and the generating facility is under the Attaining Balancing Authority jurisdiction, but where the generating facility is electrically interconnected to transmission within the Native Balancing Authority Area in which it is physically located, as provided for under this Agreement.~~

~~2.2.8 **Scheduling Coordinator:** An entity certified by the CAISO for the purposes of undertaking the functions of: submitting bids or schedules for energy, generation, transmission losses, and ancillary services; coordinating generation; tracking, billing, and settling trades with other Scheduling Coordinators; submitting forecast information; paying the CAISO's charges; and ensuring compliance with CAISO protocols.~~

~~2.2.9 **System Resource:** "System Resource" is defined in the CAISO Tariff and, in the context of this Agreement, may include combinations of resources as described in the CAISO Dynamic Transfer Protocols.~~

3. **General**

3.1 **Purpose**

This Agreement sets forth the requirements that must be satisfied by the Parties to support Scheduling Coordinators' and generating unit owners' requests for implementation of dynamic transfer functionality and delivery of energy and energy associated with ancillary services to the respective Balancing Authority Area. The requirements encompass technical (energy management system ("EMS"), automatic generation control ("AGC"), and communications, interchange scheduling, telemetry, and aspects of Balancing Authority Area operations. Nothing in this Agreement is

intended to interfere with the rights of an affected transmission owner or transmission operator in the WALC Balancing Authority Area to determine its own terms of service associated with the facilitation of dynamic transfer by WALC.

3.2 NERC/WECC Operating Standards Observed

Nothing in this Agreement is intended to change, supersede, or alter either Party's obligations to abide by NERC and WECC reliability standards and policies and WECC criteria.

3.3 Applicable Standards

This Agreement incorporates, by reference, the CAISO Dynamic Transfer Protocols and Standards for Imports of Regulation. Where there is an inconsistency between the CAISO's Dynamic Transfer Protocols and Standards for Imports of Regulation and this Agreement, this Agreement will prevail to the extent of the inconsistency.

3.4 Coordination and Communication

Each Party operates and maintains, or provides for operation and maintenance on a 24-hour, 7-day control center with real-time scheduling and control functions. The appropriate control center staff shall be responsible for operational communications and shall have sufficient authority to commit and bind that Party on decisions relating to emergency operations. The Parties agree to exchange operational contact information for insuring reliable communication in a format to be agreed to by the Parties and completed as of the Effective Date of this Agreement. Each Party shall provide the other Party ten (10) calendar days advance notice of updates to its operational contact information for known changes, and as soon as practical, for unplanned changes.

4. **Dynamic Schedules of Imports and Exports**

Should the Parties elect to support a Scheduling Coordinators' request to implement dynamic scheduling functionality, all applicable operating, technical and business requirements set forth in Appendix M of the CAISO Tariff shall be satisfied, including, but not limited to, the following:

4.1 **Telecommunications Requirements**

The Parties shall establish and maintain real-time, redundant, diversely routed, communications links between the CAISO EMS and the WALC EMS, with the primary link utilizing the standard inter-control center communications protocol ("ICCP") in accordance with the Applicable Standards for the dynamically scheduled resources listed in Schedule 1.

4.2 **Telemetry**

For each operating hour for which a dynamically scheduled resource is delivering energy, and/or energy associated with ancillary services to the receiving Balancing Authority Area, the Host Balancing Authority shall provide, via the ICCP communication links to the receiving Balancing Authority EMS, the data for each dynamically scheduled resource, as set forth in the Applicable Standards.

4.3 **Interchange Scheduling Requirements**

4.3.1 **Dynamic Schedules**

The Parties shall coordinate the arrangements for dynamic interchange schedules for the delivery of energy to the respective Balancing Authority Area reflecting the dynamically scheduled resource's instantaneous energy production or allocation level and taking into account available transmission capacity and, in the case of WALC, the impact of dynamic interchange schedules on transmission owner(s) and transmission operator(s) within the WALC Balancing Authority Area.

4.3.2 **Treatment of Area Control Error ("ACE")**

For Dynamic Scheduling, the Host Balancing Authority shall instantaneously compensate its AGC for the dynamically scheduled resource's energy output that is generated or allocated for establishing the dynamic schedule to the receiving Balancing Authority such that the dynamically

scheduled resource energy production or allocation changes have an equal in magnitude and opposite in sign effect on the Host Balancing Authority's ACE.

4.3.3 Integration of Dynamic Schedules

For each operating hour during which energy was dynamically scheduled for delivery to the receiving Balancing Authority Area, the Host Balancing Authority shall compute an integrated amount of interchange based on the dynamically scheduled resource's integrated energy production, by integrating the instantaneous dynamically scheduled resource production levels. Such integrated MWH value shall be agreed to hourly by the real-time schedulers.

4.3.4 Regulation Obligation

The Host Balancing Authority shall be responsible for regulation obligation for the portion of the dynamically scheduled resource's output not dynamically scheduled into the receiving Balancing Authority Area in accordance with WECC and NERC reliability standards. Dynamic energy deliveries to the receiving Balancing Authorities will be used to determine pro rata allocations of real time deviations applicable to each Balancing Authority that receives the dynamically scheduled generation.

4.3.5 Access to Information

The Parties agree to exchange information related to telemetry sent and received with respect to the delivery of energy (i) at the request of the other Party for purposes of after-the-fact interchange accounting or (ii) on demand for any other purpose.

4.3.6 Other Balancing Authority Responsibilities

4.3.6.1 Operational Jurisdiction

The Host Balancing Authority will have, at a minimum, the level of operational jurisdiction over the dynamically scheduled resource and the associated dynamic schedule that NERC and WECC vest in Host Balancing Authorities. Such level of operational jurisdiction shall not exceed that necessary to meet applicable reliability standards.

4.3.6.2 **E-Tagging**

The Parties must support associated e-tagging as described in the CAISO Dynamic Transfer Protocols and deemed to be consistent with NERC and/or WECC requirements.

4.3.6.3 **Real-Time Adjustments**

The Host Balancing Authority Area for a dynamically transferred resource must have a means to manually override and/or otherwise adjust the dynamic signal for a dynamic schedule in real-time, if needed.

4.3.6.4 **Coordination with Other Balancing Authorities**

The Balancing Authority Area hosting a dynamic resource must provide in real-time the instantaneous value of each dynamic schedule to every intermediary Balancing Authority Area through whose systems such dynamic schedule may be implemented to the receiving Balancing Authority.

4.4 **Other**

4.4.1 **Losses**

The Parties shall not be responsible for transmission losses caused by transmitting energy dynamically within or across the other Parties Balancing Authority Area.

4.4.2 **Certification**

Only CAISO-certified System Resource/Host Balancing Authority arrangements will be allowed to bid or self provide ancillary services in the CAISO's ancillary services market through a CAISO-certified Scheduling Coordinator.

4.4.3 **No Guarantee of Award**

Certification of a System Resource/Host Balancing Authority arrangement allows for bidding of energy and/or certain ancillary services into the CAISO market; it does not, however, guarantee selection of such bid.

4.4.4 Performance Assessment

The CAISO will monitor and measure dynamically imported ancillary services, whether bid or self-provided, against the performance benchmarks described in the CAISO Dynamic Scheduling Protocol.

4.4.5 Description of System Resources

Each dynamically scheduled System Resource permitted pursuant to this Agreement is described in Schedule 1. Each Party shall provide the other Party the opportunity to comment in writing on any change, modification, or addition to Schedule 1 at least forty-five (45) calendar days prior to the effective date of such revised Schedule 1. Such changes shall not constitute an amendment to this Agreement. Changes, additions, or modifications to Schedule 1 shall be reflected in a new or revised Schedule 1 and will be distributed in accordance with Section 7.3 of the Agreement

~~4.4.5 Description of System Resources~~

~~Each dynamically scheduled System Resource permitted pursuant to this Agreement is described in Schedule 1.~~

4.4.6 Notifications

The Parties shall jointly develop methods for coordinating the notification of all affected scheduling entities within their respective Balancing Authority Areas regarding schedule changes in emergency or curtailment conditions.

5. Pseudo-Ties

Should the Parties elect to support a Pseudo-Tie generator's request to implement a Pseudo-Tie arrangement, the Parties shall comply with the applicable provisions of the Pseudo-Tie Protocol in Appendix N of the CAISO Tariff, including, but not limited, to the following:

- 5.1 Operation of Pseudo-Tie functionalities must comply with all applicable NERC and WECC reliability standards, policies, requirements, and guidelines regarding inter-Balancing Authority Area scheduling. A Pseudo-Tie must be registered as a Point Of Delivery ("POD") on North American Energy Standards Board's (NAESB's Electric Industry Registry ("EIR"). All (off-system) static scheduling associated with Pseudo-Tie functionality must be consistent with NERC Reliability Standards for interchange scheduling and coordination.

- 5.2 The Parties will establish the terms of any Pseudo-Tie between the two Balancing Authority Areas, will specify the location of that Pseudo-Tie point, and will register that location as a POD to the Attaining Balancing Authority Area.
- 5.3 All energy transfers associated with a Pseudo-Tie generating unit must be electronically tagged (E-tagged).
- 5.4 Unless a particular service is procured by the Pseudo-Tie generator from some other source, the Attaining Balancing Authority shall provide to a Pseudo-Tie generating unit all Balancing Authority

services available to other generating units in the Attaining Balancing Authority Area, which may include the auxiliary load equipment needs of the Pseudo-Tie generating unit, provided firm transmission service is reserved across the transmission path from the CAISO Intertie to the Pseudo-Tie generating unit.

- 5.5 The Parties, in conjunction with the affected Participating Transmission Owner, or, in the case of WALC, affected transmission owner(s) and transmission operator(s) within the WALC Balancing Authority Area and the owner of the Pseudo-Tie generating unit will develop a coordinated operating procedure outlining the agreed upon framework among all parties for the operation of a Pseudo-Tie of the generating unit out of the CAISO Balancing Authority Area, and to facilitate the continued delivery of Energy and Ancillary Services from a Pseudo-Tie generating unit into the CAISO Balancing Authority Area to the desired delivery points in the event the primary contract path is unavailable or curtailed.
- 5.6 All applicable communication and telemetry requirements of the WECC, the CAISO, and a Pseudo-Tie generating unit's Native Balancing Authority Area regarding generating units and inter-Balancing Authority Area Interties must be satisfied. These requirements include the requirements of Appendix M applicable to Dynamic Schedules of imports and the requirements of the CAISO Tariff applicable to generating units in the CAISO Balancing Authority Area.
- 5.7 Proper incorporation of the dynamic signal into all involved Balancing Authority Areas' ACE equations will be required.
- 5.8 Should there be any need or requirement, whether operational or procedural, for the CAISO or the Balancing Authority for the Attaining Balancing Authority Area to make real-time adjustments to the CAISO's inter-Balancing Authority Area schedules at the pre-existing CAISO Intertie associated with the Pseudo-Tie generating unit (including curtailments), the dynamic transfer from the Pseudo-Tie generating unit shall be treated in the same manner as any CAISO Interchange Schedule at that pre-existing CAISO Intertie, and in accordance with any applicable operating instructions from any affected Participating Transmission Owner.

5.9 Each Pseudo-Tie Generating Unit permitted pursuant to this Agreement is described in Schedule 2. Each Party shall provide the other Party the opportunity to comment in writing on any change, modification, or addition to Schedule 2 at

least forty-five (45) calendar days prior to the effective date of such revised Schedule 2. Such changes shall not constitute an amendment to this Agreement. Changes, additions, or modifications to Schedule 2 shall be reflected in a new or revised Schedule 2 and will be distributed in accordance with Section 7.3 of the Agreement.

~~5.9 Each Pseudo-Tie generating unit permitted pursuant to this Agreement is described in Schedule 2.~~

6. **Liability**

6.1 **Uncontrollable Forces**

An Uncontrollable Force means any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm, flood, earthquake, explosion, any curtailment, order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond the reasonable control of a Balancing Authority which could not be avoided through the exercise of Good Utility Practice.

Neither Party will be considered in default of any obligation under this Agreement or liable to the other for direct, indirect, and consequential damages if prevented from fulfilling that obligation due to the occurrence of an Uncontrollable Force. Neither Party will be considered in default of any obligation under this Agreement to the extent caused by any act, or failure to act, of any intermediary Balancing Authority. In the event of the occurrence of an Uncontrollable Force, which prevents either Party from performing any obligations under this Agreement, the affected entity shall not be entitled to suspend performance of its obligations in any greater scope or for any longer duration than is required by the Uncontrollable Force. The Parties shall each use its best efforts to mitigate the effects of such Uncontrollable Force, remedy its inability to perform, and resume full performance of its obligations hereunder.

6.2 **Liability To Third Parties**

Except as otherwise expressly provided herein, nothing in this Agreement shall be construed or deemed to confer any right or benefit on, or to create any duty to, or standard of care with reference to any third party, or any liability or obligation, contractual or otherwise, on the part of either Party.

6.3 **Liability Between the Parties**

The Parties' duties and standard of care with respect to each other, and the benefits and rights conferred on each other, shall be no greater than as explicitly stated herein. Neither Party, its directors, officers, employees, or agents, shall be liable to the other Party for any loss, damage, claim, cost, charge, or expense, whether direct, indirect, or consequential, arising from the Party's performance or nonperformance under this Agreement, except for a Party's gross negligence, or willful misconduct.

7. Miscellaneous

7.1 Exchange of Information and Confidentiality

When a Party (“Providing Party”) provides information to the other Party (“Receiving Party”) under this Agreement and marks such information as privileged or confidential commercial or financial information, critical energy infrastructure information, or trade secret information, the Receiving Party shall treat such information as confidential and protected from disclosure to the extent permitted by law. The Receiving Party shall promptly notify the Providing Party in writing of any request to release such information. The Parties agree to use such information only for purposes of performing each Party’s obligations under this Agreement. The provisions of this Section 7.1 shall survive the termination of this Agreement.

7.2 Assignment and Successors

Either Party to this Agreement may assign its obligations under this Agreement, with the other Party’s prior written consent. Such consent shall not be unreasonably withheld.

Obligations and liabilities under this Agreement shall be binding on the successors and assigns of the Parties. No assignment of this Agreement shall relieve the assigning Party from any obligation or liability under this Agreement arising or accruing prior to the date of assignment.

7.3 Notices

Any notice, demand, or request which may be given to or made upon either Party regarding this Agreement shall be made in writing and shall be deemed properly served, given, or made: (a) upon delivery if delivered in person, (b) five (5) days after deposit in the mail if sent by first class United States mail, postage prepaid, (c) upon receipt of confirmation by return facsimile if sent by facsimile, or (d) upon delivery if delivered by prepaid commercial courier service. A Party must update the information in Schedule 3 relating to its address as that information changes. Such updates to Schedule 3 shall not constitute an amendment to this Agreement.

7.4 Waivers

Any waiver at any time by either Party of its rights with respect to any default under this Agreement, or with respect to any other

matter arising in connection with this Agreement, shall not constitute or be deemed a waiver with respect to any subsequent default or matter arising in connection with this Agreement. Any delay short of the statutory period of limitations, in asserting or enforcing any right under this Agreement, shall not constitute or be deemed a waiver of such right.

7.5 Governing Law and Forum

Subject to Section 7.6, this Agreement shall be deemed to be a contract made under and for all purposes shall be governed by and construed in accordance with the laws of the State of California or the laws of the United States, as applicable, except that if a dispute concerns the operation of transmission lines or facilities, the law of the state where the transmission lines or facilities are located or the laws of the United States, as applicable, will control. The Parties irrevocably consent that any legal action or proceeding arising under or relating to this Agreement shall be brought in any of the following forums, as appropriate: any federal court of the United States of America located in the State of California or, where subject to its jurisdiction, before FERC. No provision of this Agreement shall be deemed to waive the right of any Party to protest, or challenge in any manner, whether this Agreement, or any action or proceeding arising under or relating to this Agreement, is subject to the jurisdiction of FERC.

7.6 Consistency with Federal Laws and Regulations

- (a) Nothing in this Agreement shall compel any person or federal entity to: (1) violate federal statutes or regulations; or (2) in the case of a federal agency, to exceed its statutory authority, as defined by any applicable federal statutes, regulations, or orders lawfully promulgated thereunder. If any provision of this Agreement is inconsistent with any obligation imposed on any person or federal entity by federal law or regulation to that extent, it shall be inapplicable to that person or federal entity. No person or federal entity shall incur any liability by failing to comply with any provision of this Agreement that is inapplicable to it by reason of being inconsistent with any federal statutes, regulations, or orders lawfully promulgated thereunder; provided, however, that such person or federal entity shall use its best efforts to comply with the CAISO Tariff to the extent that applicable federal laws, regulations, and orders lawfully promulgated thereunder permit it to do so.
- (b) If any provision of this Agreement requiring any person or federal entity to give an indemnity or impose a sanction on any person is

unenforceable against a federal entity, the CAISO shall submit to the Secretary of Energy or other appropriate Departmental Secretary a report of any circumstances that would, but for this provision, have rendered a federal entity liable to indemnify any person or incur a sanction and may request the Secretary of Energy or other appropriate Departmental Secretary to take such steps as are necessary to give effect to any provisions of this Agreement that are not enforceable against the federal entity.

7.7 No Warranties or Representations; Disclaimer

All information, including confidential information, provided by a Party (“Providing Party”) to the other Party (“Receiving Party”) under this Agreement carries no warranty or representation of any kind, either express or implied. The Receiving Party receives the information “as is” and with all faults, errors, defects, inaccuracies, and omissions. The Providing Party makes no representations or warranties whatsoever with respect to the availability, timeliness, accuracy, reliability, or suitability of any information. The Receiving Party disclaims and waives all rights and remedies that it may otherwise have with respect to all warranties and liabilities of the Providing Party, expressed or implied, arising by law or otherwise, with respect to any faults, errors, defects, inaccuracies or omissions in, or availability, timeliness, reliability, or suitability of the information. Each Party assumes any and all risk and responsibility for selection and use of, and reliance on, any information provided under this Agreement.

7.8 Severability

If any term, covenant, or condition of this Agreement or the application or effect of any such term, covenant, or condition is held invalid as to any person, entity, or circumstance, or is determined to be unjust, unreasonable, unlawful, imprudent, or otherwise not in the public interest by any court or government agency of competent jurisdiction, then such term, covenant, or condition shall remain in force and effect to the maximum extent permitted by law, and all other terms, covenants, and conditions of this Agreement and their application shall not be affected thereby, but shall remain in force and effect and the parties shall be relieved of their obligations only to the extent necessary to eliminate such regulatory or other determination unless a court or governmental agency of competent jurisdiction holds that such provisions are not separable from all other provisions of this Agreement.

7.9 Section Headings

Section headings provided in this Agreement are for ease of reading and are not meant to interpret the text in each Section.

7.10 Amendments

With the exception of Schedules 1, 2, and 3, which do not require an amendment, the remainder of the Agreement may be modified from time to time by the mutual agreement of the Parties through an amendment. Amendments are subject to FERC approval and shall not take effect until FERC has accepted such amendments for filing and has made them effective. Nothing contained herein shall be construed as affecting in any way the right of the Parties to unilaterally make application to FERC for a change in the rates, terms and conditions of this Agreement under Section 205 of the Federal Power Act (FPA) and pursuant to FERC's rules and regulations promulgated thereunder; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before FERC in which such modifications may be

considered. Nothing in this Agreement shall limit the rights of the Parties or of FERC under Sections 205 or 206 of the FPA and FERC's rules and regulations thereunder, except to the extent that the Parties otherwise mutually agree as provided herein.

7.10 ~~Amendments~~

~~This Agreement and the Schedules attached hereto may be amended from time to time by the mutual agreement of the Parties in writing. Amendments that are subject to FERC approval shall not take effect until FERC has accepted such amendments for filing and has made them effective. Nothing contained herein shall be construed as affecting in any way the right of the Parties to unilaterally make application to FERC for a change in the rates, terms and conditions of this Agreement under Section 205 of the Federal Power Act (FPA) and pursuant to FERC's rules and regulations promulgated thereunder; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before FERC in which such modifications may be considered. Nothing in this Agreement shall limit the rights of the Parties or of FERC under Sections 205 or 206 of the FPA and FERC's rules and regulations thereunder, except to the extent that the Parties otherwise mutually agree as provided herein.~~

7.11 Counterparts

This Agreement may be executed in one (1) 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 Agreement.

7.12 **Authority**

Each individual signing this Agreement certifies that the Party represented has duly authorized such individual to sign, bind, and obligate such Party.

Accepted and agreed to by:

California Independent System Operator Corporation

Department of Energy,
Western Area Power Administration

By:

By:

Name:

Name:

Title:

Title:

Date:

Date:

SCHEDULE 1, REVISION NO. 1

DESCRIPTION OF DYNAMIC SCHEDULING RESOURCES

[Sections 4.4.5 and 7.3]

A. Dynamic Scheduling System Resources Into the CAISO Balancing Authority Area

<u>System Resource ID:</u>	<u>SCEHOV 2 HOOVER</u>
<u>Description of System Resource(s), including Associated Power Plants</u>	<u>System Resource is associated with the seventeen (17) hydro Generating Units at Hoover Dam and other resources made available by Western Area Power Administration, Lower Colorado (WALC) for the integration of Hoover Dam Generating Units' electric power output.</u>
<u>PMax Values¹:</u>	<u>357 MW</u>
<u>CAISO Intertie:</u>	<u>WALC Mead 230-kV Substation</u>
<u>Host Balancing Authority Area:</u>	<u>WALC Balancing Authority Area</u>
<u>Intermediary Balancing Authority Areas:</u>	<u>N/A</u>

1. This value represents the maximum amount of power that can be scheduled by the System Resource into the CAISO Balancing Authority Area, and is subject to limitation by Congestion on the scheduling path or System Emergencies that could reduce or eliminate the ability to schedule and transfer power from time-to-time.

<u>System Resource ID:</u>	<u>AGCANA X HOOVER</u>
<u>Description of System Resource(s), including Associated Power Plants</u>	<u>System Resource is associated with the Hoover Power Plant made available by WALC</u> <u>40 MW</u>
<u>PMax Values¹</u>	
<u>CAISO Intertie:</u>	<u>WALC Mead 230-kV Substation</u>
<u>Host Balancing Authority Area:</u>	<u>WALC Balancing Authority Area</u>
<u>Intermediary Balancing Authority Areas:</u>	<u>N/A</u>

Prior to the implementation of the changes made to this Schedule 1, Revision No. 1, any funds that are required by Western will be requested in accordance with Section 7.3 of the Agreement.

B. Dynamic Scheduling System Resources Out of the CAISO Balancing Authority Area

There are no Dynamic Scheduling System Resources out of the CAISO Balancing Authority Area.

This Schedule 1, Revision No. 1 shall remain in effect until superseded by written notice from either of the Parties in accordance with Section 4.4.5 of the Agreement.

SCHEDULE 1

DESCRIPTION OF DYNAMIC SCHEDULING RESOURCES

[Section 4.4.5]

A. ~~Dynamic Scheduling System Resources Into the CAISO Balancing Authority Area~~

System Resource ID	SCEHOV_2_HOOVER
Description of System Resource(s), including Associated Power Plants	System Resource is associated with the 17 hydro-generating units at Hoover Dam and other resources made available by Western Area Power Administration, Lower Colorado (WAPA Lower Colorado) for the integration of Hoover Dam generating units' electric power output.
PMax Values²:	357 MW
CAISO Intertie:	WALC Mead 230 kV Substation
Host Balancing Authority Area:	WALC Balancing Authority Area
Intermediary Balancing Authority Areas:	N/A

B. ~~Dynamic Scheduling System Resources Out of the CAISO Balancing Authority Area~~

~~There are no Dynamic Scheduling System Resources out of the CAISO Balancing Authority Area.~~

² This value represents the maximum amount of power that can be scheduled by the System Resource into the CAISO Balancing Authority Area, and is subject to limitation by Congestion on the scheduling path or System Emergencies that could reduce or eliminate the ability to schedule and transfer power from time to time.

SCHEDULE 2, REVISION NO. 1³

PSEUDO-TIE GENERATING UNIT, PSEUDO TIE Technical Information

NATIVE and ATTAINING BALANCING AUTHORITY AREA Information

[Section 5.9]

A. Pseudo-Tie Into the CAISO Balancing Authority Area

A.1 Rice Solar Energy Technical Information

<u>Pseudo Tie Location</u>	<u>Location: Rice, CA. South of State Route 62 in unincorporated northeast Riverside County in the Sonora Desert</u> <u>Substation: 161-kV Rice Switching Station⁴</u> <u>Registered TNAME: To Be Determined</u>
<u>Pseudo-Tie Generating Unit</u>	<u>Generating Facility: Rice Solar Energy Project: Solar Thermal – Steam turbine</u> <u>Capacity: 172.50 MW</u> <u>Pmax⁵: 172.50 MW</u> <u>Resource ID: To Be Determined</u>
<u>Attaining Balancing Authority Area</u>	<u>CAISO Balancing Authority Area</u>
<u>Native Balancing Authority Area</u>	<u>WALC Balancing Authority Area</u>
<u>Intertie</u> <u>Intertie ID</u>	<u>Eldorado – Mead 220 kV</u> <u>Mead 2 WALC</u>

³ Schedule 2, Section A.1 is contingent upon the completion of the Rice Solar Energy Project.

⁴ The Rice Switching Station will initially be operated at 161-kV and will be operated at 230-kV in the future.

⁵ This value is the unity power factor and represents the maximum amount of power that can be scheduled by the Pseudo-Tie Generating Unit or into the CAISO Balancing Authority Area, and is subject to limitation pursuant to existing contracts regarding transmission service rights on the scheduling path due to System Emergencies, or to provide necessary voltage support, which could temporarily reduce the ability to generate and transfer power to amounts less than Pmax.

B. Pseudo-Tie Out of the CAISO Balancing Authority Area

There are no Pseudo-Ties out of the CAISO Balancing Authority Area.

This Schedule 2, Revision No. 1 shall remain in effect until superseded by written notice from either of the Parties in accordance with Section 5.9 of the Agreement.

SCHEDULE 2

**~~PSEUDO-TIE GENERATING UNIT, PSEUDO TIE Technical Information
NATIVE and ATTAINING BALANCING AUTHORITY AREA Information~~**

~~[Section 5.9]~~

~~A. Pseudo-Tie Into the CAISO Balancing Authority Area~~

Pseudo-Tie Location	<p>Location: Rice, CA. South of State Route 62 in unincorporated northeast Riverside County in the Sonora Desert</p> <p>Substation: 161-kV Rice Switching Station⁶</p> <p>Registered TNAME: To Be Determined</p>
Pseudo-Tie Generating Unit	<p>Generating Facility: Rice Solar Energy Project: Solar Thermal – Steam turbine</p> <p>Capacity: 172.50 MW</p> <p>Pmax⁷: 172.50 MW</p> <p>Resource ID: To Be Determined</p>
Attaining Balancing Authority Area	CAISO Balancing Authority Area
Native Balancing Authority Area	WALC Balancing Authority Area
Intertie Intertie ID	Eldorado – Mead 220 kV Mead_2_WALC

⁶ The Rice Switching Station will initially be operated at 161-kV and will be operated at 230-kV in the future.

⁷ This value is the unity power factor and represents the maximum amount of power that can be scheduled by the Pseudo-Tie Generating Unit or into the CAISO Balancing Authority Area, and is subject to limitation pursuant to existing contracts regarding transmission service rights on the scheduling path due to System Emergencies, or to provide necessary voltage support, which could temporarily reduce the ability to generate and transfer power to amounts less than Pmax.

~~B. Pseudo-Tie Out of the CAISO Balancing Authority Area~~

~~There are no Pseudo-Ties out of the CAISO Balancing Authority Area.~~

SCHEDULE 3

NOTICES

[Section 7.3]

WALC:

Name of Primary

Representative: Mr. Darren Buck

Title: Operations Manager

Company: Western Area Power Administration

Address: 5555 East Crossroads Boulevard

City/State/Zip Code Loveland, CO 80538

Email Address: DBuck@wapa.gov

Phone: (970) 461-7693

Fax No: (970) 461-7601

Name of Alternative

Representative: Mr. Steve Johnson

Title: Supervisory Power System Dispatcher

Company: Western Area Power Administration

Address: 5555 East Crossroads Boulevard

City/State/Zip Code: Loveland, CO 80538

Email Address: Johnsons@wapa.gov

Phone: (970) 461-7451

Fax No: (970) 461-7601

|

CAISO:

Name of Primary

Representative: Regulatory Contracts

Title: N/A

Address: 250 Outcropping Way

City/State/Zip Code: Folsom, CA 95630

Email address: regulatorycontracts@caiso.com

Phone: (916) 608-7027

Fax: (916) 608-7292

Name of Alternative

Representative: Mr. Christopher J. Sibley

Title: Lead Contract Negotiator

Address: 250 Outcropping Way

City/State/Zip Code: Folsom, CA 95630

Email address: csibley@caiso.com

Phone: (916) 608-7030

Fax: (916) 608-7292

This Attachment shall remain in effect until superseded by written notice from either of the Parties.