July 29, 2004

The Honorable Magalie R. Salas Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, D.C. 20426

Re: California Independent System Operator Corporation Compliance Filing Docket No. ER04-793-___

Dear Secretary Salas:

The California Independent System Operator Corporation ("ISO")¹ respectfully submits six copies of this filing in compliance with the Commission's June 29, 2004 order in the captioned docket concerning Amendment No. 59 to the ISO Tariff, 107 FERC ¶ 61,329 ("Amendment No. 59 Order"). Two additional copies of this filing are enclosed to be date-stamped and returned to our messenger.

In the Amendment No. 59 Order, the Commission directed the ISO to file ISO Tariff sheets containing the *Standards for Dynamic Imports of Energy, Supplemental Energy, and Energy Associated with Non-Regulation Ancillary Services* ("*Standards*") that were provided in Attachment E to the filing containing Amendment No. 59, which the ISO submitted on April 30, 2004. *See* Amendment No. 59 Order at P 21 and ordering paragraph (B). To comply with this directive, the ISO submits, in Attachment A to the present filing, a new Dynamic Scheduling Protocol. The Dynamic Scheduling Protocol contains the same provisions that were contained in the *Standards*, as well as provisions

¹ Capitalized terms not otherwise defined herein are used in the sense given in the Master Definitions Supplement, Appendix A to the ISO Tariff.

The Honorable Magalie R. Salas July 29, 2004 Page 2

concerning objectives, definitions, and scope that are similar to those contained in the initial sections of other ISO Protocols.²

In addition, Attachment A contains clean ISO Tariff sheets to correct several inadvertent omissions from the Amendment No. 59 filing that the ISO did not discover until several days ago. First, the ISO provides two "rollover" sheets that should have been included in Amendment No. 59: a pre-Amendment No. 54 sheet, Sheet No. 564A, and a post-Amendment No. 54 sheet, Sheet No. 483A.³ Second, the ISO provides substitute Sheet No. 564 (a pre-Amendment No. 54 sheet) in order to restore the language of Section 6.1.1(e) of the Schedules and Bids Protocol, which language was inadvertently deleted from Sheet No. 564 as provided in Amendment No. 59.

Attachment B to the present filing contains the Dynamic Scheduling Protocol in black-line format. Attachment C to this filing contains a form notice of this filing, suitable for publication in the Federal Register, along with a computer diskette containing the Notice.

² The Dynamic Scheduling Protocol is made effective June 29, 2004, which was the effective date approved by the Commission for most of the tariff revisions contained in Amendment No. 59. See Amendment No. 59 Order at ordering paragraph (A). The portions of Sections 8.1 and 8.6 of the Dynamic Scheduling Protocol concerning Uninstructed Deviation Penalties, however, will be implemented at the same time as other provisions in the ISO Tariff concerning Uninstructed Deviation Penalties (e.g., those contained in Section 11.2.4.1.2 of the ISO Tariff).

³ For an explanation why the ISO is providing pre- and post-Amendment No. 54 sheets, see the transmittal letter for Amendment No. 59 at footnote 13.

The Honorable Magalie R. Salas July 29, 2004 Page 3

The ISO is serving copies of this compliance filing on all parties on the official service list for the captioned docket. In addition, the ISO is posting this filing on the ISO Home Page. If there are questions concerning the filing, please contact the undersigned.

Respectfully submitted,

Anthony J. Ivancovich Senior Regulatory Counsel The California Independent System Operator Corporation 151 Blue Ravine Road Folsom, CA 95630 Tel: (916) 351-4400 Fax: (916) 608-7296 David B. Rubin Bradley R. Miliauskas Swidler Berlin Shereff Friedman, LLP 3000 K Street, N.W., Suite 300 Washington, D.C. 20007 Tel: (202) 424-7516 Fax: (202) 424-7643 ATTACHMENT A

- (iii) replacement of an Ancillary Service;
- (c) agency operation of Generating Units, Curtailable Demands or Interconnection schedules, for example:
 - (i) output or Demand that can be Dispatched to meet Applicable Reliability Criteria;
 - (ii) Generating Units that can be Dispatched for Black Start;

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Substitut FIRST REPLACEMENT VOLUME NO. II Superseding

- Substitute Fifth Revised Sheet No. 564 Superseding Fourth Revised Sheet No. 564
- (e) the MW and \$/Mwh values for each Generating Unit for which a Supplemental Energy bid is being submitted consistent with this SBP 6

A Physical Scheduling Plant shall be treated as a single Generating Unit for Supplemental Energy bid purposes.

SBP 6.1.2 Demand Section of Energy Bid Data

Each SC offering Spinning, Non-Spinning, or Replacement Reserve, or Supplemental Energy to the ISO will submit the following information for each Demand for each Settlement Period:

- (a) SC's ID code;
- (b) name of Demand;
- (c) the MW and \$/MWh values for each Demand for which a Supplemental Energy bid is being submitted consistent with this SBP 6.

SBP 6.1.3 External Import Section of Energy Bid Data

Each SC offering Spinning, Non-Spinning, or Replacement Reserve, or Supplemental Energy to the ISO will submit the following information for each external import for each Settlement Period;

- (a) SC's ID code;
- (b) name of Scheduling Point;
- (c) interchange ID (the name of the selling entity, the buying entity, and a numeric identifier);
- (d) external Control Area ID;
- (e) Schedule ID (NERC ID number);
- (f) complete WECC tag;
- (g) ramp rate (MW/minute);
- the MW and \$/MWh values for each external import for which a Supplemental Energy bid is being submitted consistent with this SBP 6;
- (i) minimum block of hours that bid must be dispatched;
- (j) Flag indicating the bid must is capable available for intra-hour Redispatch. If this flag is set to no then the bid is indicating that the bid must be pre-dispatched and not re-dispatched during the real-time operating hour;
- (k) interchange ID code;
- (I) external Control Area ID;
- (m) Schedule ID (NERC ID number) and complete WECC tag;
- (n) preferred bid flag, a "YES" indicates a bid and a "NO" indicates a self-provided schedule; and
- (o) the contract reference number, if applicable.

SBP 6.2 Format of Energy Bids

The SC's preferred operating point for each resource must be within the range of the Energy Bids. The minimum MW output level specified for a resource, which may be zero MW (or negative for pumped storage resources), and the maximum MW output level specified for a resource

Issued by: Charles F. Robinson, Vice President and General Counsel Issued on: July 29, 2004

Effective: June 29, 2004

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF Substitute Second Revised Sheet No. 564A FIRST REPLACEMENT VOLUME NO. II Superseding First Revised Sheet No. 564A

must be physically achievable by the resource. All submitted Energy Bids must be in the form of a monotonically increasing staircase function for Demands. These staircase functions will be composed of up to eleven (11) ordered pairs (i.e., ten (10) steps or price bands) of quantity/price information, with a single ramp rate associated with the

Original Sheet No. 934

DYNAMIC SCHEDULING PROTOCOL

Issued by: Charles F. Robinson, Vice President and General Counsel Issued on: July 29, 2004

Effective: June 29, 2004

DYNAMIC SCHEDULING PROTOCOL

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Issued by: Charles F. Robinson, Vice President and General Counsel Issued on: July 29, 2004

DYNAMIC SCHEDULING PROTOCOL (DSP)

DSP 1 OBJECTIVES, DEFINITIONS, AND SCOPE

DSP 1.1 Objectives

The objectives of this Protocol are to implement the ISO Tariff provisions relating to dynamic imports of Energy, Supplemental Energy, and Energy associated with non-Regulation Ancillary Services (Spinning Reserve and Non-Spinning Reserve) by Scheduling Coordinators from System Resources.

DSP 1.2 Definitions

DSP 1.2.1 Master Definitions Supplement

Any word or expression defined in the Master Definitions Supplement to the ISO Tariff shall have the same meaning where used in this Protocol. A reference to a Section or an Appendix is a reference to a Section or an Appendix of the ISO Tariff. References to DSP are to this Protocol or to the stated paragraph of this Protocol.

DSP 1.2.2 Special Definitions for this Protocol

In this Protocol, the following expressions shall have the meaning set opposite them:

"Host Control Area" means the Control Area within whose electrically metered boundaries a System Resource subject to this Protocol is located. The Host Control Area may, or may not, be directly interconnected with the ISO Control Area.

"Intermediary Control Area" means any Control Area between a Host Control Area and the ISO Control Area through which dynamically exchanged Energy or Energy associated with dynamically scheduled Ancillary Services must be scheduled to reach the ISO Control Area. An Intermediary Control Area may, or may not, be directly interconnected with the ISO Control Area.

DSP 1.2.3 Rules of Interpretation

- (a) Unless the context otherwise requires, if the provisions of this Protocol and the ISO Tariff conflict, the ISO Tariff will prevail to the extent of the inconsistency. Certain provisions of the ISO Tariff have been summarized or repeated in this Protocol only to aid understanding.
- (b) A reference in this Protocol to a given agreement, ISO Protocol, or instrument shall be a reference to that agreement or instrument as modified, amended, supplemented, or restated through the date as of which such reference is made.
- (c) The captions and headings in this Protocol are inserted solely to facilitate reference and shall have no bearing upon the interpretation of any of the terms and conditions of this Protocol.
- (d) This Protocol shall be effective as of June 29, 2004. Any amendment to this Protocol shall be effective as of the date specified by FERC.

DSP 1.3 Scope

DSP 1.3.1 Scope of Application to Parties

The DSP applies to the following entities:

- (a) Scheduling Coordinators ("SCs");
- (b) System Resources;
- (c) Host Control Areas;
- (d) Intermediary Control Areas; and
- (e) the ISO.

DSP 1.3.2 Liability of the ISO

Any liability of the ISO arising out of or in relation to this Protocol shall be subject to Section 14 of the ISO Tariff as if references to the ISO Tariff were references to this Protocol.

DSP 2 CONSISTENCY WITH NERC/WECC POLICIES AND REQUIREMENTS

- **DSP 2.1** Scheduling and operation of dynamic scheduling functionalities must comply with all applicable NERC and WECC policies and requirements regarding inter-Control Area scheduling, in accordance with Section 2.2.7.6 of the ISO Tariff.
- **DSP 2.2** Scheduling and operation of dynamic scheduling functionalities must be consistent with the NERC Dynamic Transfer White Paper and all NERC standards or policies.
- **DSP 2.3** All new dynamic functionality implementations may be subject to NERC-specified peer review.

DSP 3 CONTRACTUAL RELATIONSHIPS

- **DSP 3.1** The Host Control Area and all Intermediary Control Areas must each execute an Interconnected Control Area Operating Agreement ("ICAOA") with the ISO, with accompanying service schedule, or a special agreement particular to the operation of the functionality supporting dynamic imports of Energy, Supplemental Energy, and/or Energy associated with non-regulating Ancillary Services to the ISO Control Area.
- **DSP 3.2** The SC for the System Resource must execute a special agreement with the ISO governing the operation of the dynamic scheduling functionality, which agreement will include a provision for its termination based on failure to comply with these standards.
- **DSP 3.3** The SC for the System Resource must have the necessary operational and contractual arrangements in place with the Host Control Area (see Section 5 below). Such arrangements must include the Host Control Area operator's ability to receive telemetry from the System Resource and to issue a dynamic schedule signal pertinent to that System Resource to the ISO. Proof of such arrangements must be provided to the ISO.

DSP 4 COMMUNICATIONS, TELEMETRY, AND OTHER TECHNICAL REQUIREMENTS

- **DSP 4.1** The communication and telemetry requirements set forth in the ISO's Standards for Imports of Regulation will apply to all dynamic schedules, except for (a) those dynamic functionalities established prior to the ISO Operations Date, (b) the requirements that are specific solely to Regulation, and (c) the requirements set forth below.
- **DSP 4.2** Dedicated dual redundant communications links between the ISO's EMS and the Host Control Area EMS are required.
- **DSP 4.3** The primary circuit will be T1-class, or equivalent, utilizing the inter-control center communications protocol ("ICCP"). The backup circuit will be diversely routed between the Host Control Area EMS and the ISO Control Area EMS on separate physical paths and devices.
- **DSP 4.4** Dedicated dual redundant communications links between the Host Control Area EMS and every Intermediary Control Area EMS are required.
- **DSP 4.5** The Control Area hosting a dynamically scheduled System Resource must have a mechanism implemented to override the associated dynamic signal.
- **DSP 4.6** The dynamic signal must be properly incorporated into all involved Control Areas' ACE equations.
- **DSP 4.7** The System Resource must have communications links with the Host Control Area consistent with these standards.

DSP 5 LIMITS ON DYNAMIC IMPORTS

- **DSP 5.1** The ISO reserves the right to establish limits applicable to the amount of any Ancillary Services and/or Supplemental Energy imported into the ISO Control Area, whether delivered dynamically or statically. Such limits may be established based on any one, or a combination, of the following considerations: a percentage of, or a specific import limit applicable to, total ISO Control Area requirements; a percentage at, or a specific import limit applicable to, a particular Scheduling Point or a branch group; a percentage of, or a specific import limit applicable to, total requirements in a specific Congestion Zone; or operating factors which may include, but are not limited to, operating nomograms, Remedial Action Schemes, protection schemes, scheduling and curtailment procedures, or any potential single points of failure associated with the actual delivery process.
- **DSP 5.2** The ISO may, at its discretion, either limit or forego procuring Ancillary Services at particular Control Area interties to ensure that Operating Reserves are adequately dispersed throughout the ISO Control Area as required by WECC Minimum Operating Reliability Criteria ("MORC").
- **DSP 5.3** A dynamically scheduled System Resource and its schedules must be permanently associated with a particular ISO intertie (the ISO may, from time to time and at its discretion, allow for a change in such pre-established association of the dynamically scheduled System Resource with a particular ISO intertie).

DSP 6 OPERATING AND SCHEDULING REQUIREMENTS

- **DSP 6.1** For any operating hour for which Energy, Supplemental Energy, and/or Ancillary Services (and associated Energy) is scheduled dynamically to the ISO from the System Resource, a firm (or non-interruptible for that hour) matching transmission service must be reserved across the entire dynamic schedule transmission path external to the ISO Control Area.
- **DSP 6.2** All dynamic schedules associated with newly implemented dynamically scheduled System Resources must be electronically tagged (e-tagged). Every change in the magnitude of the dynamic schedule by 25% or more, or 25 MW, whichever is less, shall require a conforming change in the associated e-tag.
- **DSP 6.3** Formal inter-Control Area dynamic schedules may be issued only by the dynamically scheduled System Resource's Host Control Area and must be routed through the EMSs of all Intermediary Control Areas (such schedules would be considered "wheel-through" schedules by Intermediary Control Areas).
- **DSP 6.4** The ISO will treat dynamically scheduled Energy as a resource contingent firm import. The ISO will procure (or allow for self-provision of) WECC MORC-required Operating Reserves for loads served by dynamically scheduled System Resources.
- **DSP 6.5** All Energy schedules associated with dynamically scheduled imports of Spinning Reserve and Non-Spinning Reserve will be afforded similar treatment (i.e., resource contingent firm).
- **DSP 6.6** The dynamic signal must be integrated over time by the Host Control Area for every operating hour.
- DSP 6.7 Notwithstanding any dispatches of the System Resource in accordance with the ISO Tariff, the ISO shall have the right to issue operating orders to the System Resource either directly or through the Host Control Area for emergency or contingency reasons, or to ensure the ISO's compliance with operating requirements based on WECC or NERC requirements and policies (e.g., WECC's Unscheduled Flow Reduction Procedure). However, such operating orders may be issued only within the range of the ISO-accepted Energy, Ancillary Services, and/or or Supplemental Energy Schedules and bids for a given operating hour (or the applicable "sub-hour" interval).
- **DSP 6.8** If there is no dynamic schedule in the ISO's Day-Ahead, Hour-Ahead, or Supplemental Energy markets, the dynamic signal must be at "zero" ("0") except when in response to ISO's Dispatch Instructions associated with accepted Ancillary Services and/or Supplemental Energy bids.
- **DSP 6.9** The SC of the dynamically scheduled System Resource must have the ability to override the associated dynamic schedule in order to respond to the operating orders of the ISO or the Host Control Area.
- **DSP 6.10** Unless the dynamically scheduled System Resource (1) is implemented as a directlytelemetered load-following functionality, (2) is base-loaded Regulatory Must Take Generation, or (3) responds to an ISO intra-hour Dispatch Instruction, the dynamic schedule representing such resource must follow WECC-approved practice of 20-minute ramps centered at the top of the hour. The ISO does not provide any special settlements treatment nor offer any ISO Tariff exemptions for dynamic load following functionalities.

- DSP 6.11 In real time the dynamic schedule may not exceed the maximum value established by the sum of the Day-Ahead and Hour-Ahead accepted Energy and Ancillary Services Schedules plus any accepted Supplemental Energy bids plus any response to the ISO's real-time Dispatch Instructions. The composite value of the dynamic schedule derived from the Day-Ahead and Hour-Ahead accepted Schedules plus any Supplemental Energy bids and Dispatch Instruction response represents not only the estimated dynamically scheduled System Resource's Energy but also the transmission reservation on the associated ISO intertie.
- **DSP 6.12** Only one dynamically scheduled System Resource may be associated with any one physical generating resource.
- **DSP 6.13** If the SC for the dynamically scheduled System Resource desires to participate in ISO's Regulation market, all provisions of the ISO's Standards for Imports of Regulation shall apply.

DSP 7 CERTIFICATION, TESTING, AND PERFORMANCE MONITORING OF DYNAMIC IMPORTS OF ANCILLARY SERVICES

SCs and Host Control Areas that are already certified under the ISO's Standards for Imports of Regulation will be deemed to have fulfilled the technical implementation requirements of this Protocol; however, such SCs and Control Areas must still be certified separately for each non-Regulating Ancillary Service (all presently implemented Regulation import functionalities may be subject to review to ensure consistency between such functionalities and the requirements of this Protocol). SCs and Host Control Areas that wish to be certified for imports of Regulation shall be subject to certification under the Standards for Imports of Regulation, subject to verification of consistency with the requirements of this Protocol.

- **DSP 7.1** The SC and Host Control Area operator must jointly request the certification of a System Resource to provide Ancillary Services for the ISO Control Area and cooperate in the testing of such System Resource (see the "Scheduling Coordinator & Host Control Area Operator Request for Certification of Dynamic Imports of Ancillary Services" certification form attached as Appendix A to this Protocol.
- **DSP 7.2** Only ISO tested and certified System Resources will be allowed to bid and/or self-provide Ancillary Services into the ISO Control Area.
- **DSP 7.3** Dynamic Ancillary Services imports will be certified through testing, in accordance with the relevant sections of the ISO's Operating Procedure G-213. All requests for certification of dynamic Ancillary Services imports will be reviewed and approved by the ISO with respect to any technical limitations imposed by existing operational considerations, such as Remedial Action Schemes, operating nomograms, and scheduling procedures. These reviews may impose certain Ancillary Services import limits in addition to those outlined in Section 4.1. Therefore, interested parties are advised and encouraged to contact the ISO before they begin the process of the necessary systems design, preparation, and implementation for import of Ancillary Services to the ISO Control Area.
- **DSP 7.4** The ISO will measure the performance of the dynamic Energy schedule associated with accepted Ancillary Services bids against (1) the awarded range of Ancillary Service capacity; (2) the certified limits; and (3) the bid ramp rate, which shall be validated by the ISO against the certified ramp rate.

DSP 7.5 The SC for the System Resource and the Host Control Area must notify the ISO should any changes, modifications, or upgrades affecting control and/or performance of the System Resource be made. Upon such notification, the ISO, at its discretion, may require that the System Resource and Host Control Area be re-certified to import Ancillary Services into the ISO Control Area.

DSP 8 COMPLIANCE, LOSSES, AND FINANCIAL SETTLEMENTS

- **DSP 8.1** Energy delivered in association with dynamically scheduled System Resources will be subject to all provisions of the ISO's Imbalance Energy markets, including Uninstructed Deviation Penalties ("UDP") (just as is the case with ISO intra-Control Area Generating Units of Participating Generators).
- **DSP 8.2** Dynamically scheduled and delivered Ancillary Services will be subject to the ISO's compliance monitoring and remedies, just as any ISO intra-Control Area Generating Units of Participating Generators.
- **DSP 8.3** All Day-Ahead and Hour-Ahead submitted dynamic schedules shall be subject to ISO Congestion mitigation and as such may not exceed their transmission reservations in real time (with the exception of intra-hour Dispatch Instructions of the Energy associated with accepted Ancillary Services or Supplemental Energy bids).
- **DSP 8.4** All dynamically scheduled and delivered Energy shall be subject to the standard ISO transmission loss calculation associated with the particular intertie ("TMMs" or ISO market redesign alternative).
- **DSP 8.5** Any transmission losses attributed to the dynamic schedule on transmission system(s) external to the ISO Control Area will be the responsibility of the owner(s)/operator(s) of the dynamically scheduled System Resource.
- **DSP 8.6** A predetermined, mutually agreed, and achievable "Pmax-like" fixed MW value will be established for every dynamically scheduled System Resource to be used as the basis for the UDP calculation. Responsible SCs will be able to report de-rates affecting the dynamically scheduled System Resource via the ISO's "SLIC" outage reporting system.
- **DSP 8.7** Should there be any need or requirement, whether operational or procedural, for the ISO to make real time adjustments to the ISO's inter-Control Area schedules (to include curtailments), dynamic schedules shall be treated in the same manner as similarly situated and/or effective static ISO schedules.

DSP APPENDIX A

Scheduling Coordinator & Host Control Area Operator Request for Certification of Imports of Spinning and Non-Spinning Reserves for which the associated Energy is delivered dynamically from a System Resource

In accordance with the ISO Tariff, Protocols and Operating Procedures,

_____, as Scheduling Coordinator, and

, as Host Control Area operator (as such term is referred to in the ISO Dynamic Scheduling Protocol), collectively referred to as "Parties," or individually as "Party," hereby request the certification of the Parties and the System Resource(s) identified in the table below as a provider of Ancillary Services and associated Energy to the ISO Control Area subject to the Dynamic Scheduling Protocol. Further, the Parties acknowledge that their ability to import Ancillary Services and associated Energy will be tested for certification in accordance with ISO Operating Procedure G-213.

With this request for certification, the Parties recognize that the ISO Tariff, Protocols, and applicable agreements require the Host Control Area operator to issue dynamic Energy schedules to the ISO based on the Scheduling Coordinator's self-provided or bid external imports of non-Regulation Ancillary Services from the System Resource(s) at any time during the operating hour.

With this request for certification, the Host Control Area operator represents and warrants that it has in place the required communications links with the ISO Control Area in order to facilitate the delivery of Ancillary Services and associated Energy from the System Resource.

With this request for certification, the Scheduling Coordinator represents and warrants that it has made the appropriate arrangements for and has put in place the equipment and services necessary for the delivery of Ancillary Services and associated Energy from the System Resource to the point of interchange ("Scheduling Point") with the ISO Control Area in accordance with the Dynamic Scheduling Protocol.

The Scheduling Coordinator further certifies that any and all dynamic imports of Energy associated with self-provided or bid imports of non-Regulation Ancillary Services will be deliverable over non-interruptible, non-recallable transmission rights, from the source of the associated Energy to the Scheduling Point with the ISO Control Area.

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FIRST REPLACEMENT VOLUME NO. II

Original Sheet No. 943

System Resource	External Host Control Area in which System Resource is Located	Scheduling Point (ISO interchange ID)	Maximum Amount of Ancillary Services Capacity to be Certified (MW)	Maximum Ramp Rate to be Certified (MW/minute)
1				
2				
3				
4				
5				

Subsequent to the initial filing of this request for certification with the ISO, any prospective changes jointly made by the Parties may be filed with the Scheduling Coordinator's ISO Client Relations representative, who will acknowledge the receipt of such requested changes and indicate the date on which such changes may be tested and become effective if ISO testing proves successful. Such changes will be made by the ISO as soon as practicable, with reasonable efforts made to implement them within sixty (60) days of receipt of the requested changes.

This document _____ (does) _____ (does not) contain requested changes to previously effective certification.

Certification Requested By:

_____, as the Scheduling Coordinator

Name: _____

Title: _____
Date: _____

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION FERC ELECTRIC TARIFF FIRST REPLACEMENT VOLUME NO. II

Original Sheet No. 944

, as the l	Host	Control /	Area C	D perator
				•

Name: _____ Title: _____

Date: _____

CERTIFICATION REQUEST ACKNOWLEDGED by:

California Independent System Operator Corporation
Name:
Title:
Date:

ATTACHMENT B

DYNAMIC SCHEDULING PROTOCOL

	DYNAMIC SCHEDULING PROTOCOL	
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DYNAMIC SCHEDULING PROTOCOL (DSP)

DSP 1 OBJECTIVES, DEFINITIONS, AND SCOPE

DSP 1.1 Objectives

The objectives of this Protocol are to implement the ISO Tariff provisions relating to dynamic imports of Energy, Supplemental Energy, and Energy associated with non-Regulation Ancillary Services (Spinning Reserve and Non-Spinning Reserve) by Scheduling Coordinators from System Resources.

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DSP 1.2.1 Master Definitions Supplement

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- (a) Unless the context otherwise requires, if the provisions of this Protocol and the ISO Tariff conflict, the ISO Tariff will prevail to the extent of the inconsistency. Certain provisions of the ISO Tariff have been summarized or repeated in this Protocol only to aid understanding.
- (b) A reference in this Protocol to a given agreement, ISO Protocol, or instrument shall be a reference to that agreement or instrument as modified, amended, supplemented, or restated through the date as of which such reference is made.
- (c) The captions and headings in this Protocol are inserted solely to facilitate reference and shall have no bearing upon the interpretation of any of the terms and conditions of this Protocol.
- (d) This Protocol shall be effective as of June 29, 2004. Any amendment to this Protocol shall be effective as of the date specified by FERC.

DSP 1.3 Scope

DSP 1.3.1 Scope of Application to Parties

The DSP applies to the following entities:

- (a) Scheduling Coordinators ("SCs");
- (b) System Resources;
- (c) Host Control Areas;
- (d) Intermediary Control Areas; and
- (e) the ISO.

DSP 1.3.2 Liability of the ISO

Any liability of the ISO arising out of or in relation to this Protocol shall be subject to Section 14 of the ISO Tariff as if references to the ISO Tariff were references to this Protocol.

DSP 2 CONSISTENCY WITH NERC/WECC POLICIES AND REQUIREMENTS

- DSP 2.1
 Scheduling and operation of dynamic scheduling functionalities must comply with all applicable NERC and WECC policies and requirements regarding inter-Control Area scheduling, in accordance with Section 2.2.7.6 of the ISO Tariff.
- DSP 2.2 Scheduling and operation of dynamic scheduling functionalities must be consistent with the NERC Dynamic Transfer White Paper and all NERC standards or policies.
- DSP 2.3 All new dynamic functionality implementations may be subject to NERC-specified peer review.
- DSP 3 CONTRACTUAL RELATIONSHIPS
- DSP 3.1
 The Host Control Area and all Intermediary Control Areas must each execute an

 Interconnected Control Area Operating Agreement ("ICAOA") with the ISO, with

 accompanying service schedule, or a special agreement particular to the operation of the

 functionality supporting dynamic imports of Energy, Supplemental Energy, and/or Energy

 associated with non-regulating Ancillary Services to the ISO Control Area.
- DSP 3.2 The SC for the System Resource must execute a special agreement with the ISO governing the operation of the dynamic scheduling functionality, which agreement will include a provision for its termination based on failure to comply with these standards.
- DSP 3.3The SC for the System Resource must have the necessary operational and contractual
arrangements in place with the Host Control Area (see Section 5 below). Such
arrangements must include the Host Control Area operator's ability to receive telemetry
from the System Resource and to issue a dynamic schedule signal pertinent to that
System Resource to the ISO. Proof of such arrangements must be provided to the ISO.

DSP 4	COMMUNICATIONS, TELEMETRY, AND OTHER TECHNICAL REQUIREMENTS
DSP 4.1	The communication and telemetry requirements set forth in the ISO's Standards for Imports of Regulation will apply to all dynamic schedules, except for (a) those dynamic functionalities established prior to the ISO Operations Date, (b) the requirements that are specific solely to Regulation, and (c) the requirements set forth below.
<u>DSP 4.2</u>	Dedicated dual redundant communications links between the ISO's EMS and the Host Control Area EMS are required.
<u>DSP 4.3</u>	The primary circuit will be T1-class, or equivalent, utilizing the inter-control center communications protocol ("ICCP"). The backup circuit will be diversely routed between the Host Control Area EMS and the ISO Control Area EMS on separate physical paths and devices.
<u>DSP 4.4</u>	Dedicated dual redundant communications links between the Host Control Area EMS and every Intermediary Control Area EMS are required.
<u>DSP 4.5</u>	The Control Area hosting a dynamically scheduled System Resource must have a mechanism implemented to override the associated dynamic signal.
<u>DSP 4.6</u>	The dynamic signal must be properly incorporated into all involved Control Areas' ACE equations.
<u>DSP 4.7</u>	The System Resource must have communications links with the Host Control Area consistent with these standards.
DSP 5	LIMITS ON DYNAMIC IMPORTS
<u>DSP 5.1</u>	The ISO reserves the right to establish limits applicable to the amount of any Ancillary Services and/or Supplemental Energy imported into the ISO Control Area, whether delivered dynamically or statically. Such limits may be established based on any one, or a combination, of the following considerations: a percentage of, or a specific import limit applicable to, total ISO Control Area requirements; a percentage at, or a specific import limit applicable to, a particular Scheduling Point or a branch group; a percentage of, or a specific import limit applicable to, total requirements in a specific Congestion Zone; or operating factors which may include, but are not limited to, operating nomograms, Remedial Action Schemes, protection schemes, scheduling and curtailment procedures, or any potential single points of failure associated with the actual delivery process.
DSP 5.2	The ISO may, at its discretion, either limit or forego procuring Ancillary Services at
	particular Control Area interties to ensure that Operating Reserves are adequately dispersed throughout the ISO Control Area as required by WECC Minimum Operating Reliability Criteria ("MORC").
<u>DSP 5.3</u>	A dynamically scheduled System Resource and its schedules must be permanently associated with a particular ISO intertie (the ISO may, from time to time and at its discretion, allow for a change in such pre-established association of the dynamically scheduled System Resource with a particular ISO intertie).

DSP 6	OPERATING AND SCHEDULING REQUIREMENTS			
<u>DSP 6.1</u>	For any operating hour for which Energy, Supplemental Energy, and/or Ancillary Services (and associated Energy) is scheduled dynamically to the ISO from the System Resource, a firm (or non-interruptible for that hour) matching transmission service must be reserved across the entire dynamic schedule transmission path external to the ISO Control Area.			
<u>DSP 6.2</u>	All dynamic schedules associated with newly implemented dynamically scheduled System Resources must be electronically tagged (e-tagged). Every change in the magnitude of the dynamic schedule by 25% or more, or 25 MW, whichever is less, shall require a conforming change in the associated e-tag.			
<u>DSP 6.3</u>	Formal inter-Control Area dynamic schedules may be issued only by the dynamically scheduled System Resource's Host Control Area and must be routed through the EMSs of all Intermediary Control Areas (such schedules would be considered "wheel-through" schedules by Intermediary Control Areas).			
DSP 6.4	The ISO will treat dynamically scheduled Energy as a resource contingent firm import. The ISO will procure (or allow for self-provision of) WECC MORC-required Operating Reserves for loads served by dynamically scheduled System Resources.			
<u>DSP 6.5</u>	All Energy schedules associated with dynamically scheduled imports of Spinning Reserve and Non-Spinning Reserve will be afforded similar treatment (i.e., resource contingent firm).			
DSP 6.6	The dynamic signal must be integrated over time by the Host Control Area for every operating hour.			
<u>DSP 6.7</u>	Notwithstanding any dispatches of the System Resource in accordance with the ISO Tariff, the ISO shall have the right to issue operating orders to the System Resource either directly or through the Host Control Area for emergency or contingency reasons, or to ensure the ISO's compliance with operating requirements based on WECC or NERC requirements and policies (e.g., WECC's Unscheduled Flow Reduction Procedure). However, such operating orders may be issued only within the range of the ISO-accepted Energy, Ancillary Services, and/or or Supplemental Energy Schedules and bids for a given operating hour (or the applicable "sub-hour" interval).			
<u>DSP 6.8</u>	If there is no dynamic schedule in the ISO's Day-Ahead, Hour-Ahead, or Supplemental Energy markets, the dynamic signal must be at "zero" ("0") except when in response to ISO's Dispatch Instructions associated with accepted Ancillary Services and/or Supplemental Energy bids.			
DSP 6.9	The SC of the dynamically scheduled System Resource must have the ability to override the associated dynamic schedule in order to respond to the operating orders of the ISO or the Host Control Area.			
<u>DSP 6.10</u>	Unless the dynamically scheduled System Resource (1) is implemented as a directly- telemetered load-following functionality, (2) is base-loaded Regulatory Must Take Generation, or (3) responds to an ISO intra-hour Dispatch Instruction, the dynamic schedule representing such resource must follow WECC-approved practice of 20-minute ramps centered at the top of the hour. The ISO does not provide any special settlements treatment nor offer any ISO Tariff exemptions for dynamic load following functionalities.			

<u>DSP 6.11</u>	In real time the dynamic schedule may not exceed the maximum value established by the sum of the Day-Ahead and Hour-Ahead accepted Energy and Ancillary Services Schedules plus any accepted Supplemental Energy bids plus any response to the ISO's real-time Dispatch Instructions. The composite value of the dynamic schedule derived from the Day-Ahead and Hour-Ahead accepted Schedules plus any Supplemental Energy bids and Dispatch Instruction response represents not only the estimated dynamically scheduled System Resource's Energy but also the transmission reservation on the associated ISO intertie.
DSP 6.12	Only one dynamically scheduled System Resource may be associated with any one physical generating resource.
<u>DSP 6.13</u>	If the SC for the dynamically scheduled System Resource desires to participate in ISO's Regulation market, all provisions of the ISO's Standards for Imports of Regulation shall apply.
DSP 7	CERTIFICATION, TESTING, AND PERFORMANCE MONITORING OF DYNAMIC IMPORTS OF ANCILLARY SERVICES
	SCs and Host Control Areas that are already certified under the ISO's Standards for Imports of Regulation will be deemed to have fulfilled the technical implementation requirements of this Protocol; however, such SCs and Control Areas must still be certified separately for each non-Regulating Ancillary Service (all presently implemented Regulation import functionalities may be subject to review to ensure consistency between such functionalities and the requirements of this Protocol). SCs and Host Control Areas that wish to be certified for imports of Regulation shall be subject to certification under the Standards for Imports of Regulation, subject to verification of consistency with the requirements of this Protocol.
<u>DSP 7.1</u>	The SC and Host Control Area operator must jointly request the certification of a System Resource to provide Ancillary Services for the ISO Control Area and cooperate in the testing of such System Resource (see the "Scheduling Coordinator & Host Control Area Operator Request for Certification of Dynamic Imports of Ancillary Services" certification form attached as Appendix A to this Protocol.
DSP 7.2	Only ISO tested and certified System Resources will be allowed to bid and/or self-provide Ancillary Services into the ISO Control Area.
<u>DSP 7.3</u>	Dynamic Ancillary Services imports will be certified through testing, in accordance with the relevant sections of the ISO's Operating Procedure G-213. All requests for certification of dynamic Ancillary Services imports will be reviewed and approved by the ISO with respect to any technical limitations imposed by existing operational considerations, such as Remedial Action Schemes, operating nomograms, and scheduling procedures. These reviews may impose certain Ancillary Services import limits in addition to those outlined in Section 4.1. Therefore, interested parties are advised and encouraged to contact the ISO before they begin the process of the necessary systems design, preparation, and implementation for import of Ancillary Services to the ISO Control Area.
<u>DSP 7.4</u>	The ISO will measure the performance of the dynamic Energy schedule associated with accepted Ancillary Services bids against (1) the awarded range of Ancillary Service capacity; (2) the certified limits; and (3) the bid ramp rate, which shall be validated by the ISO against the certified ramp rate.

DSP 7.5	The SC for the System Resource and the Host Control Area must notify the ISO should			
	any changes, modifications, or upgrades affecting control and/or performance of the			
	System Resource be made. Upon such notification, the ISO, at its discretion, may			
	require that the System Resource and Host Control Area be re-certified to import			
	Ancillary Services into the ISO Control Area.			
DSP 8	COMPLIANCE, LOSSES, AND FINANCIAL SETTLEMENTS			
DSP 8.1	Energy delivered in association with dynamically scheduled System Resources will be			
	subject to all provisions of the ISO's Imbalance Energy markets, including Uninstructed			
	Deviation Penalties ("UDP") (just as is the case with ISO intra-Control Area Generating			
	Units of Participating Generators).			
DSP 8.2	Dynamically scheduled and delivered Ancillary Services will be subject to the ISO's			
	compliance monitoring and remedies, just as any ISO intra-Control Area Generating			
	Units of Participating Generators.			
DSP 8.3	All Day-Ahead and Hour-Ahead submitted dynamic schedules shall be subject to ISO			
D3F 0.3	Congestion mitigation and as such may not exceed their transmission reservations in real			
	time (with the exception of intra-hour Dispatch Instructions of the Energy associated with			
	accepted Ancillary Services or Supplemental Energy bids).			
	<u></u>			
DSP 8.4	All dynamically scheduled and delivered Energy shall be subject to the standard ISO			
	transmission loss calculation associated with the particular intertie ("TMMs" or ISO			
	market redesign alternative).			
DSP 8.5	Any transmission losses attributed to the dynamic schedule on transmission system(s)			
	external to the ISO Control Area will be the responsibility of the owner(s)/operator(s) of			
	the dynamically scheduled System Resource.			
DSP 8.6	A predetermined, mutually agreed, and achievable "Pmax-like" fixed MW value will be			
001 0.0	established for every dynamically scheduled System Resource to be used as the basis			
	for the UDP calculation. Responsible SCs will be able to report de-rates affecting the			
	dynamically scheduled System Resource via the ISO's "SLIC" outage reporting system.			
	Should there he any need or requirement, whether energianal or presedural for the ISO			
DSP 8.7	Should there be any need or requirement, whether operational or procedural, for the ISO to make real time adjustments to the ISO's inter-Control Area schedules (to include			
	curtailments), dynamic schedules shall be treated in the same manner as similarly			
	situated and/or effective static ISO schedules.			

DSP APPENDIX A

Scheduling Coordinator & Host Control Area Operator Request for Certification of Imports of Spinning and Non-Spinning Reserves for which the associated Energy is delivered dynamically from a System Resource

In accordance with the ISO Tariff, Protocols and Operating Procedures,

, as Scheduling Coordinator, and

, as Host Control Area operator (as such term is referred to in the ISO Dynamic Scheduling Protocol), collectively referred to as "Parties," or individually as "Party," hereby request the certification of the Parties and the System Resource(s) identified in the table below as a

provider of Ancillary Services and associated Energy to the ISO Control Area subject to the Dynamic Scheduling Protocol. Further, the Parties acknowledge that their ability to import Ancillary Services and associated Energy will be tested for certification in accordance with ISO Operating Procedure G-213.

With this request for certification, the Parties recognize that the ISO Tariff, Protocols, and applicable agreements require the Host Control Area operator to issue dynamic Energy schedules to the ISO based on the Scheduling Coordinator's self-provided or bid external imports of non-Regulation Ancillary Services from the System Resource(s) at any time during the operating hour.

With this request for certification, the Host Control Area operator represents and warrants that it has in place the required communications links with the ISO Control Area in order to facilitate the delivery of Ancillary Services and associated Energy from the System Resource.

With this request for certification, the Scheduling Coordinator represents and warrants that it has made the appropriate arrangements for and has put in place the equipment and services necessary for the delivery of Ancillary Services and associated Energy from the System Resource to the point of interchange ("Scheduling Point") with the ISO Control Area in accordance with the Dynamic Scheduling Protocol.

The Scheduling Coordinator further certifies that any and all dynamic imports of Energy associated with self-provided or bid imports of non-Regulation Ancillary Services will be deliverable over non-interruptible, non-recallable transmission rights, from the source of the associated Energy to the Scheduling Point with the ISO Control Area.

<u>System</u> <u>Resource</u>	External Host Control Area in which System Resource is Located	<u>Scheduling Point</u> (ISO interchange ID)	<u>Maximum</u> <u>Amount of</u> <u>Ancillary</u> <u>Services</u> <u>Capacity to be</u> <u>Certified</u> <u>(MW)</u>	<u>Maximum Ramp</u> <u>Rate to be</u> <u>Certified</u> (MW/minute)
<u>1</u>				
<u>2</u>				
<u>3</u>				
<u>4</u>				
<u>5</u>				

Subsequent to the initial filing of this request for certification with the ISO, any prospective changes jointly made by the Parties may be filed with the Scheduling Coordinator's ISO Client Relations representative, who will acknowledge the receipt of such requested changes and indicate the date on which such changes may be tested and become effective if ISO testing proves successful. Such changes will be made by the ISO as soon as practicable, with reasonable efforts made to implement them within sixty (60) days of receipt of the requested changes.

This document _____ (does) _____ (does not) contain requested changes to previously effective certification.

Certification Requested By:

, as the Scheduling Coordinator

Name:

Title:

Date:

, as the Host Control Area Operator

Name:

<u>Title:</u> Date:

CERTIFICATION REQUEST ACKNOWLEDGED by:

California Independent System Operator Corporation
Name:
Title:
Date:

ATTACHMENT C

NOTICE SUITABLE FOR PUBLICATION IN THE FEDERAL REGISTER

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

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California Independent System Operator Corporation

Docket No. ER04-793- ____

Notice of Filing

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Take notice that on July 29, 2004 the California Independent System Operator Corporation (ISO) submitted a filing to comply with the Commission's June 29, 2004 order in the captioned docket concerning Amendment No. 59 to the ISO Tariff, 107 FERC ¶ 61,329.

The ISO states that it has served copies of this letter, and all attachments, upon all parties on the official service list for the captioned docket. In addition, the ISO is posting this transmittal letter and all attachments on the ISO Home Page.

Any person desiring to intervene or to protest this filing should file with the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426, in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure (18 CFR 385.211 and 385.214). Protests will be considered by the Commission in determining the appropriate action to be taken. but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a motion to intervene. All such motions or protests should be filed on or before the comment date, and, to the extent applicable, must be served on the applicant and on any other person designated on the official service list. This filing is available for review at the Commission or may be viewed on the Commission's web site at http://www.ferc.gov, using the eLibrary (FERRIS) link. Enter the docket number excluding the last three digits in the docket number field to access the document. For assistance, please contact FERC Online Support at FERCOnlineSupport@ferc.gov or toll-free at (866)208-3676, or for TTY, contact (202)502-8659. Protests and interventions may be filed electronically via the Internet in lieu of paper; see 18 CFR 385.2001(a)(1)(iii) and the instructions on the Commission's web site under the "e-Filing" link. The Commission strongly encourages electronic filings.

Comment Date: _____