



California ISO
Your Link to Power

DRAFT White Paper

**Exceptional Dispatch:
Options for Market Power Mitigation and Supplemental
Pricing**

**California Independent System Operator
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Table of Contents

1	Executive Summary	3
2	Process and Proposed Timetable	3
3	Overview of the Exceptional Dispatch Issue	4
3.1	Current Tariff Rules on Exceptional Dispatch	5
3.2	Potential Market Impacts if Current Tariff Rules are not Modified	6
3.2.1	Locational Market Power in Energy	6
3.2.2	Exceptional Dispatch and Voluntary ICPM Designation.....	8
4	Exceptional Dispatch Mitigation Proposal	10
5	Description and Evaluation of Design Options	12
5.1	Relaxation of Mitigation for non-RA resources.....	13
5.2	Supplemental Payments to Mitigated non-RA Resources.....	13
6	Implementation Issues.....	17
	Attachment 1 Relevant Excerpts on Exceptional Dispatch from the CAISO Tariff and FERC Orders	18
	Attachment 2 List of Acronyms	26

White Paper Exceptional Dispatch

1 Executive Summary

The purpose of this initiative is to discuss options for modifying the pricing rules for Exceptional Dispatch and determine if changes are needed to the existing California Independent System Operator (CAISO) Market Redesign and Technology Upgrade (MRTU) Tariff. If it is determined that the MRTU Tariff should be modified, then it is the goal of this process to obtain Board of Governors and Federal Energy Regulatory Commission (FERC) approval for any proposed revisions. Issues associated with Exceptional Dispatch pricing became a higher priority for CAISO recently as a result of the stakeholder discussions over the proposed pricing rules for the Interim Capacity Procurement Mechanism (ICPM). One issue was whether resources receiving an (unmitigated) Bid offer price through Exceptional Dispatch would accept an ICPM designation. Those discussions lead to a re-examination of the local market power that could be exerted by resources subject to Exceptional Dispatch, and instigated a mitigation proposal by the CAISO Department of Market Monitoring (DMM). At the same time, stakeholders have raised concerns about the adequacy of fixed cost recovery by units without capacity contracts or designations (i.e., that do not hold contracts for Resource Adequacy (RA) or Reliability Must-Run (RMR) or an ICPM designation) and that are subject to both mitigation and Exceptional Dispatch. In response to these stakeholder concerns, CAISO proposes that MRTU Tariff modifications could include both (a) market power mitigation of Exceptionally Dispatched resources under specific conditions, and (b) in some Exceptional Dispatch situations, supplemental payments to resources with mitigated Bids but that do not have capacity contracts/designations for purposes of contribution to fixed cost recovery – possibly as daily capacity payments or Bid Adders. The CAISO's goal is to file these proposed tariff revisions with FERC on June 6, 2008 (please see key milestones in the section below) and to propose an effective date coincident with the start of the MRTU markets. At the culmination of this stakeholder process, the proposal that is presented to the CAISO Board should be compatible with the MRTU market design, and strike a reasonable balance between the views of the CAISO stakeholders.

2 Process and Proposed Timetable

Although the timetable listed below is fairly compressed, the topic of Exceptional Dispatch has already been discussed over several months during the end of 2007 and has also been raised by stakeholders in the ICPM proceeding before FERC. For information related to those prior discussions please refer to the documents posted on the CAISO website at: <http://www.caiso.com/1c89/1c89d76950e00.html> and <http://www.caiso.com/1c7f/1c7fe9985c80.pdf>.

The timetable below provides an overview of the key milestones and associated dates to go through a stakeholder process, Market Surveillance Committee (MSC)

review, Board review and filing with FERC. This White Paper is the first step in the process.

Key Milestones for Exceptional Dispatch Process

Stakeholder Review of Initial White Paper	
CAISO issues market notice announcing issue and first meeting	March 14, 2008
CAISO posts White Paper	March 21, 2008
CAISO posts conference call agenda	March 21, 2008
CAISO holds stakeholder conference call on White Paper	March 28, 2008
Stakeholders submit their written comments on White Paper	April 4, 2008
CAISO posts the written comments submitted on White Paper	April 7, 2008
Second Review of White Paper	
Based on comments CAISO posts updated White Paper	April 11, 2008
Stakeholder meeting to discuss revised White Paper	April 15, 2008
Final set of comments due from Stakeholders	April 22, 2008
Final White Paper	
Based on stakeholder comments CAISO posts final White Paper	May 6, 2008
Develop MSC Opinion	
MSC posts the draft MSC Opinion	TBD
MSC holds a conference call to adopt the MSC Opinion	TBD
MSC submits to CAISO the adopted MSC Opinion	TBD
Prepare Board Documents	
Final Board documents to Legal	May 12, 2008
CAISO requests approval from Board to make tariff filing	May 22, 2008
Prepare Tariff Language	
Post draft tariff language	May 6, 2008
Stakeholder written comments due on draft tariff language	May 16, 2008
Stakeholder conference call on draft tariff language	May 23, 2008
File Exceptional Dispatch tariff with FERC	June 6, 2008

3 Overview of the Exceptional Dispatch Issue

This section provides background on the current tariff rules on Exceptional Dispatch and examines some of the potential market results depending on whether and how the current Tariff rules are modified. For purposes of convenience, the descriptive sections of this White Paper excerpt sections from the prior MPD discussion paper and DMM white papers, with attribution when appropriate.¹ In addition, the current Tariff language and excerpts from the FERC orders approving the tariff rules for

¹ Papers and comments on Exceptional Dispatch can be found at <http://www.caiso.com/1c89/1c89d76950e00.html> and <http://www.caiso.com/1c7f/1c7fe9985c80.pdf>.

Exceptional Dispatch and clarifying CAISO Exceptional Dispatch authority are in Attachment 1.

3.1 Current Tariff Rules on Exceptional Dispatch

Exceptional Dispatch provides the CAISO with the capability to dispatch resources that are not cleared through the market software to maintain reliable grid operations. Exceptional Dispatch also is used for various other functions that require a resource to be dispatched outside of a market schedule. Exceptional Dispatch can apply to all types of units in the CAISO system, including those with an RA contract or ICPM designation (and hence have a must-offer requirement into the MRTU IFM), RMR units, and resources that do not have any of those contracts or designations. Currently, the MRTU Tariff allows resources with offers in the markets to be paid the higher of their offer, Default Energy Bid (DEB) price or the LMP when Exceptionally Dispatched. Resources without offers in the market are paid the higher of their DEB or the LMP.

Much like the current out-of-sequence and out-of-market actions taken by CAISO operators today, Exceptional Dispatch is an action taken by CAISO operators that takes place prior to real-time or in real-time in response to a reliability issue that cannot be resolved through the CAISO market software. In such circumstances, CAISO has the ability under the MRTU tariff to manually commit and dispatch generation units (and participating loads) to address a reliability issue. The Exceptional Dispatch instruction can be for forced start-up, forced shut-down, operation at minimum operating level, incremental energy or decremental energy.

Exceptional Dispatch is also an action taken by operators for the following reasons (see Section 34.9 of the CAISO MRTU Tariff in Attachment 1):

- address transmission related modeling limitations,
- perform Ancillary Services testing,
- perform pre-commercial operations testing for Generating Units,
- mitigate for Over-generation,
- provide for Black Start,
- provide for Voltage Support,
- accommodate Transmission Ownership Rights (TOR) or Existing Transmission Contract (ETC) Self-Schedule changes after the Market Close of the Hour-Ahead Scheduling Procedure (HASP), and

- reverse a commitment instruction issued through the Integrated Forward Market (IFM) that is no longer optimal as determined through Residual Unit Commitment (RUC).

Under the current MRTU Tariff rules, resources dispatched under Exceptional Dispatch will be paid the higher of:

- their offer (Energy Bid price), whether submitted into the IFM, the RUC or the RTM,
- their Default Energy Bid price, if they have no offer in the markets, or
- the Locational Marginal Price (LMP) at their node.

This “higher of” pricing rule is needed because of the manual dispatch, under which the CAISO may be required to dispatch a resource with an offer price or DEB higher than the prevailing LMP.

Also, under the current MRTU Tariff rules, Exceptional Dispatch is not subject to the Market Power Mitigation and Reliability Requirement Determination process (“MPM-RRD”), which is the CAISO market power mitigation element to its Day-Ahead and Real-Time Market. However, Energy Bids are subject to the Bid caps; therefore, Exceptional Dispatch offer prices are capped at the same market offer caps that all resources are subject to.

3.2 Potential Market Impacts if Current Tariff Rules are not Modified

CAISO has been evaluating the market impacts associated with the existing MRTU Tariff rules to determine whether MRTU Tariff revisions are necessary. This section examines the two primary market impacts considered so far: locational market power in energy and the incentive to accept voluntary designation as an ICPM resource.

3.2.1 Locational Market Power in Energy

CAISO expects the use of Exceptional Dispatch for reliability constraints to be extremely limited and most often to take place on an unpredictable basis, such that any resource that has offers in the market would have submitted those offers without expectation of additional post-IFM binding constraints that lead to locational market power. However, there is still uncertainty about the potential need to rely on Exceptional Dispatches and, as pointed out in the DMM White Paper², the particular concern is primarily over localized constraints that are not modeled in the Full Network Model (FNM) incorporated in the CAISO’s IFM and HASP/RTM software.

² DMM paper titled “Mitigation of Potential Market Power Under MRTU Exceptional Dispatch Provisions” located at: <http://caiso.com/1ca9/1ca98ee3221f0.pdf>

As noted in the MPD paper posted on October 22, 2007³ there are two major potential reasons why Exceptional Dispatches may be needed for local reliability issues.

3.2.1.1 Forced Transmission or Generation Outages

Exceptional Dispatches may be triggered as a result of a forced transmission or generation outage. Under this scenario, the expectation is that within a short period, the CAISO will update the FNM to reflect the new situation, allowing for a return to reliance on market mechanisms to establish schedules. Specifically, the CAISO has indicated that forced transmission and generation outages or de-rates should be incorporated into the FNM within one hour to one day of occurrence. Presumably, if the FNM is updated within this time period, there would be limited potential for the exercise of locational market power under this scenario. However, since there is lack of experience with the MRTU software, at this time, CAISO cannot rule out the potential for persistent local market power if FNM updates are not as timely as expected.

3.2.1.2 Local Reliability Constraints Not Modeled in Market Software

In certain instances, it may also be possible that the FNM may not adequately model all local reliability constraints, leading to the need for Exceptional Dispatches to ensure local reliability.

For example, two specific examples of reliability constraints that are not modeled in the FNM include the following:

- **Voltage Stability Constraints.** Voltage support requirements can typically be met by dispatching a unit to operate at its Minimum Load level, so this type of constraint would not appear to require the use of Exceptional Dispatch for energy (above Minimum Load) at Bid prices that could significantly exceed competitive levels due to locational market power.
- **SP26 30-minute Dispatchable Energy Requirements.** Under current operating practices, units committed to ensure that sufficient 30-minute dispatchable capacity is online in SP26 are frequently dispatched in real time beyond their minimum operating levels (P-Min) up to their minimum dispatchable operating levels. Under current MRTU provisions for Exceptional Dispatch, a unit expecting to be dispatched up to its minimum dispatchable level could submit extremely high Energy Bid prices to the real time market. With the recent changes in the zonal RA requirements, effective for RA year 2008, there would likely be a reduction in the amount of non-RA resources committed for this particular reliability constraint. The Path26 allocation process was described in a market notice sent out by the CAISO on July 19, 2007 to Market Participants.⁴

³ MPD paper titled "Exceptional Dispatch and Proposed Interim Capacity Procurement Mechanism" located at: <http://caiso.com/1c7f/1c7fe9985c80.pdf>

⁴ A copy of the market notice can be found at: <http://www.caiso.com/1c20/1c20ad8932cf2.html>

In many or most cases, the CAISO expects that these reliability requirements are expected to be indirectly met as a result of other constraints incorporated in the FNM and market schedules resulting from the IFM. In addition, although voltage support and stability constraints are not modeled explicitly, these may in some cases be converted and modeled as flow based constraints. Similarly, some contingency constraints may also be converted and modeled as flow based constraints. Again, experience with MRTU market operations will clarify the market impact of the modeling of these transmission constraints, but evaluation at this time cannot rule out the potential for persistent local market power if Exceptional Dispatch is used more frequently than expected.

3.2.2 Exceptional Dispatch and Voluntary ICPM Designation

A second area of concern to CAISO and market participants is the relationship of Exceptional Dispatch and ICPM. The ICPM is CAISO's proposed mechanism for procurement of backstop capacity from resources that do not already have an RA or RMR contract under MRTU.⁵ ICPM procurement will take place in two timeframes: the Type 1 procurement will backstop the forward (bilateral) RA market; and the Type 2 procurement in response to Significant Events, such as major generation or transmission outages, that take place in real-time operations and do not allow for all reliability criteria to be met with the available RA resources. CAISO has proposed the same ICPM price for both types of procurements: the higher of \$41/kW-year or a \$/kW-year rate based on a unit's actual going forward costs as filed at FERC. The final ICPM price has yet to be determined by FERC. The ICPM proposal as filed allows a generator to choose whether to accept designation. The expectation is that the price offer for designation will be sufficient that any generator will accept the offer voluntarily.

Some stakeholders have drawn a linkage between Exceptional Dispatch and ICPM, since in the event of an outage that is not reflected in the FNM, Exceptional Dispatch will be the method by which resources without capacity contracts that are off-line temporarily, are committed out-of-market and then possibly requested to remain available for a period in exchange for an ICPM designation. There are two primary market design issues. The first is whether, under the existing Tariff rules or any subsequent modifications of those rules, a unit without an RA contract will voluntarily accept designation as a backstop capacity resource under ICPM, under which it will be subject to the same daily must offer requirement and rules on RUC offers as an RA resource. The second issue, which assumes resolution of the first issue, is whether resources subject to Exceptional Dispatch should be eligible immediately for

⁵ The filed proposal can be found at <http://www.caiso.com/1bc5/1bc5db284cc80.html>

an ICPM designation or other supplemental payments to provide contribution to fixed cost recovery.⁶

Turning first to the issue of incentives, since the Type 1 procurement, as proposed, takes place in the forward time-frame at a tariff rate, there should be minimal interaction between the current rules for Exceptional Dispatch and the willingness of a resource to accept ICPM designation.⁷ In contrast, the Exceptional Dispatch pricing rules could affect incentives to accept Type 2 designation. During a Significant Event, the CAISO will first rely on existing operational capabilities of RA and non-RA resources scheduled through the IFM or RUC and Exceptional Dispatch for RA and non-RA resources needed that were not scheduled through the market. Following the evaluation of the expected scope and duration of the Significant Event, CAISO will determine whether to make an ICPM designation offer to specific generation units. The designation request will be accompanied by a \$/kW-year offer for the term of the designation, as specified in the ICPM proposal. When a generator is accepted for designation, it will be treated as an RA unit; e.g. subject to a must-offer into the IFM and no longer eligible to submit a non-zero offer into the RUC.

If the current MRTU Tariff rules for Exceptional Dispatch are maintained without revision (i.e., Bids would not be subject to mitigation), there should be no disincentive to accept an ICPM designation, as payments under an ICPM designation would be additional to any revenues that a resource would make under Exceptional Dispatch.⁸ However, if the Tariff rules are changed to mitigate market power, a resource without a prior capacity contract may reject an ICPM designation under some possible rules. These incentive issues are discussed below.

With regard to the second issue -- whether and under what conditions a non-RA/RMR resource subject to Exceptional Dispatch should be eligible for an ICPM designation -- CAISO has recently indicated in the context of the ICPM proceeding that it: "does not want to have a prescriptive "hard trigger" for an ICPM Significant Event that does not allow it to exercise prudent judgment based on Good Utility Practice to avoid designations that are not required."⁹ Exceptional Dispatch should not be used as such a hard trigger. As discussed above, Exceptional Dispatch may be needed for a very short-term and transitory reliability requirement; if the need is transitory, due, e.g., to a temporary inability to model a particular constraint or a

⁶ Protest of Dynegy Moss Landing, LLC, Dynegy Morro Bay, LLC, El Segundo Power, LLC, and Reliant Energy, Inc. ("California Generators Protest") submitted in FERC Docket Nos. ER06-615-000, ER08-556-000; CAISO reply comments addressing Exceptional Dispatch will be filed in March 2008.

⁷ First, Type 1 procurement is likely to be infrequent and since Load Serving Entities (LSEs) will be charged directly under this type of procurement they have an incentive to procure forward. Second, in the event that Type 1 procurement is needed, the generator resource will be choosing between a known payment and the uncertain possibility of an Exceptional Dispatch. Hence, Exceptional Dispatch pricing rules are unlikely to affect the willingness to voluntarily accept Type 1 designation.

⁸ This is because both RA/ICPM and non-RA units could be subject to Exceptional Dispatch without mitigation under the current Tariff rules. So, accepting the ICPM designation, while it would impose a requirement to offer into the IFM, could still allow for a unit to collect unmitigated payments under Exceptional Dispatch.

⁹ See ICPM Transmittal Letter, pg. 25, located at <http://www.caiso.com/1f67/1f67d9d453990.pdf>.

reliability requirement that only occurs for a brief period, then a monthly or multi-month ICPM designation does not appear to be proportional to the need. On the other hand, a more major reliability event deemed a Significant Event should lead to the offer of an ICPM designation. This issue is currently before FERC and hence any FERC decision may change the nature of the present stakeholder proceeding.

In the alternative, CAISO is evaluating, in this White Paper, options for providing daily supplemental payments for purposes of fixed cost recovery when a resource without a capacity contract is subject to both Exceptional Dispatch and mitigation. If this approach is adopted, then it may provide an adequate link between Exceptional Dispatch and ICPM from the perspective of stakeholders without resorting to automatic designation triggers. Discussion of such options begins in Section 5 below.

4 Exceptional Dispatch Mitigation Proposal

As noted above, CAISO has evaluated the circumstances for Exceptional Dispatch and found that at least in some circumstances, a resource subject to such dispatch may have substantial locational market power. Toward the end of 2007 and into early 2008 the CAISO's Department of Market Monitoring (DMM) held several stakeholder conference calls to discuss a DMM mitigation proposal for Exceptional Dispatch.

On November 30, 2007 DMM issued the first issue paper¹⁰ titled "Mitigation of Potential Market Power Under MRTU Exceptional Dispatch Provisions". Written comments from stakeholders on this initial white paper were received on December 12, 2007. In response to these comments, DMM issued a paper with additional discussion and information on this issue on January 3, 2008.¹¹ DMM then discussed issues related to the proposed mitigation rule and other stakeholder questions at a teleconference on January 7, 2008. Additional written comments were received on January 14, 2008.¹² Based on these stakeholder discussions and comments – along with further consultation with CAISO Operations personnel and management – DMM developed a more specific revised proposal that was the basis for a briefing at the January 28-29, 2008 Board of Governors (BoG) meeting.

Prior to the January 2008 CAISO Board meeting, comments were received on the mitigation proposal that prompted DMM to withdraw the proposal until further

¹⁰ DMM paper title "Mitigation of Potential Market Power Under MRTU Exceptional Dispatch Provisions" located at: <http://caiso.com/1ca9/1ca98ee3221f0.pdf>

¹¹ Initial stakeholder comments along with the response to these comments can be found at <http://www.caiso.com/1c89/1c89d76950e00.html>.

¹² These comments can be found at <http://www.caiso.com/1c89/1c89d76950e00.html>.

stakeholder discussion could be had on the broader implications of mitigation of Exceptional Dispatches.

The DMM proposal would modify the current tariff to apply market power mitigation to resources subject to Exceptional Dispatch in situations where market power is likely to be prevalent. The basic mitigation rule being proposed here is the same approach incorporated in DMM's revised white paper. The following language was taken directly from the January 17, 2008 DMM paper on the revised mitigation proposal. Specifically, under the final proposal, some units receiving manual Exceptional Dispatches for energy needed to meet reliability requirements that cannot be addressed through the MRTU software would be paid the higher of:

- The unit's Default Energy Bid (DEB) , or
- The LMP at their location.

However, under this revised proposal, the criteria for determining which Exceptional Dispatches would be subject to mitigation has been narrowed and more specifically defined. Specifically, the mitigation rule would not apply to Exceptional Dispatches for energy needed for:

- System-wide energy requirements; and
- Relief of congestion on competitive transmission constraints

The mitigation rule would apply to Exceptional Dispatches for energy needed for:

- Reliability requirements related to non-competitive transmission constraints;¹³
- Ramping units up from minimum operating levels to minimum dispatchable levels in order to protect against reliability contingencies that are not directly incorporated or sufficiently met by the MRTU software; and
- Other special unit-specific operating or environmental constraints not incorporated in the MRTU model.

The above categories were developed based on input from CAISO Operations staff on the potential reasons that Exceptional Dispatches may be issued under MRTU, and the ability of CAISO Operators to identify and log the reason for Exceptional Dispatches into various categories.

The rationale underlying this approach is that the categories for which the mitigation rule is applied involve conditions under which the potential for market power is likely to exist due to the need to issue Exceptional Dispatches for highly localized or unit-specific constraints, and other reliability requirements that are not subject to the automated Local Market Power Mitigation (LMPM) provisions incorporated in the MRTU software. In such cases, mitigating payments for any Exceptional Dispatches

¹³ DMM presentation on Competitive Path Assessment can be found at: <http://www.caiso.com/1f52/1f52bd74746f0.pdf>

(for energy above a unit's minimum operating level) to the higher of the unit's DEB or the LMP at the resource's location closely mirrors the market result that would occur if the reliability requirement creating the need for the Exceptional Dispatch were incorporated in the MRTU software.

As noted in previous documents and discussions on this issue, the CAISO will post hourly information on the volumes, costs and reasons for all Exceptional Dispatches on OASIS in a timely manner. Although such publicly posted information typically needs to be aggregated at some level (e.g. by the various categories established for logging Exceptional Dispatches), DMM believes this will provide a high level of transparency to market participants concerning the frequency, volume, costs, causes and degree of mitigation of Exceptional Dispatches.

5 Description and Evaluation of Design Options

The starting point for reviewing potential additional market design options is to examine whether the DMM mitigation proposal needs any further pricing augmentation or modification or whether it is sufficient in itself to provide appropriate compensation to mitigated units without capacity contracts or designations.

Exceptional Dispatch to support reliability will take place during many different market and system conditions. In some circumstances, such as outages or deratings of large generators or transmission facilities, LMPs should be high enough to provide appropriate market compensation and coverage of fixed costs even with mitigation. CAISO will also be introducing scarcity pricing within one year of MRTU start-up, which will further increase LMPs at those times when Exceptional Dispatch commitments may be more likely for reliability purposes. On the other hand, Exceptional Dispatch may also take place during periods when LMPs are not substantially above the resource's DEB or may result in a unit being set at its minimum operating level. Hence, CAISO has determined that a process to examine additional methods for contribution to annual fixed cost recovery by resources without capacity contracts/designations but subject to mitigation is appropriate.

The design options under consideration, as discussed below, include whether to relax mitigation for such resources (but not for resources with capacity contracts/designations) or whether to propose mitigation of such resources but supplement it with additional payments for purposes of fixed cost recovery. To evaluate such options and provide a foundation for a proposal, the CAISO has considered the following evaluation criteria:

- Provide suppliers without capacity contracts/designations with an appropriate contribution to fixed costs;
- Provide incentives for suppliers without capacity contracts/designations to offer resources into the MRTU markets;
- Provide incentives for suppliers without capacity contracts/designations to make resources available for designation under ICPM or RA;

- Minimize administrative costs and implementation issues.

CAISO seeks comment on whether these criteria are appropriate or other criteria are needed.

5.1 Relaxation of Mitigation for non-RA resources

One option that CAISO considered, but has rejected, was to propose mitigation of RA/ICPM/RMR resources but not resources without such capacity contracts/designations. CAISO operators do expect that most Exceptional Dispatches will be handled by RA/ICPM/RMR resources, and hence it is possible that the occasional Exceptional Dispatch of a resource without a capacity contract does not warrant mitigation. The advantage of such a rule is that it would allow such resources to recover fixed costs through their unmitigated market offer and would avoid the more complicated, and potentially market distorting, supplemental out-of-market payments discussed next. The disadvantage of such a rule is that there is remaining uncertainty about the scope of Exceptional Dispatch and at least in some foreseeable circumstances, a resource without a capacity contracts could exert substantial locational market power and garner rents not consistent with the market and system conditions at the time. Moreover, such a resource in this situation may reject an ICPM offer of designation, which would bring it under the same mitigation rules as RA/ICPM/RMR resources. Hence, CAISO has determined not to pursue this option. Nevertheless, CAISO remains open to stakeholder views on this option and any others.

5.2 Supplemental Payments to Mitigated non-RA Resources

This next section considers design options for consideration if resources without a capacity contract are to be subject to the proposed mitigation and some additional contribution toward fixed cost recovery is provided. The options being considered here have several market design precedents. First, MRTU currently provides opportunities for additional payments and relaxed bidding restrictions for units without a capacity contract/designation in some circumstances that differ from the rules for RA/ICPM/RMR units. These include the Frequently Mitigated Unit (FMU) Bid Adder and also the ability to submit positive offers up to \$250/MWh into the Residual Unit Commitment (RUC).¹⁴ The Bid Adder is one approach that could be considered under Exceptional Dispatch. Second, under the current market design, units subject to Must Offer Waiver Denials (MOWDs) are provided with a daily capacity payment under the RCST pricing rules. While the MRTU market design will be substantially different from the current market design, a daily capacity payment is another approach that could be considered to serve the same function that it does today. These two options are examined in more detail below.

¹⁴ RA units are not eligible for the FMU Bid Adder nor can they submit positive Availability Bids into the RUC.

Rules for Eligibility

Supplemental payments for Exceptional Dispatch will alter market incentives. As such, CAISO proposes the following rules for eligibility for any supplemental payment:

1. Such payments would only be available to resources that do not have an RA or RMR contract or an ICPM designation.
2. Such payments would only be available to resources that are Exceptionally Dispatched and mitigated under the rules proposed in Section 4.
3. Such payments would apply only to Exceptional Dispatch commitments and subsequent dispatch of incremental energy from a unit committed under Exceptional Dispatch over the operating day. That is, a resource would have to be subject initially to forced start-up to be eligible for a supplemental payment.

CAISO proposes generally that resources subject to decremental energy instructions or forced shut-down (de-commitment) under Exceptional Dispatch will not be eligible for supplemental payments. There appears to be little basis for providing additional payments to resources that are being de-committed or decremented from a dispatch point that reflected either a market schedule or a self-schedule. Moreover, CAISO proposes that resources that are already committed, whether through the market or self-schedule, will not be eligible for supplemental payments if subsequently required to provide incremental energy under Exceptional Dispatch. Again, for resources that are already scheduled through the market, and made that decision voluntarily, a supplemental payment would appear to be unnecessary. However, CAISO seeks comment on this and other eligibility requirements.

4. A non-RA resource must have a Bid in the IFM and RTM for the applicable operating day on which they were being issued an Exceptional Dispatch in order to receive the supplemental payment; otherwise, the payment will be the higher of the DEB or the LMP.

This eligibility requirement is to ensure that resources do not exit the market either in anticipation of an Exceptional Dispatch or to force the CAISO to undertake an Exceptional Dispatch so as to obtain a supplemental payment.

This rule will not resolve all market incentive issues raised by supplemental payments. While the requirement to Bid into the markets prevents resources from not submitting offers so as to get the payment, it will be replaced, if the Exceptional Dispatch can be anticipated, by an incentive to submit a sufficiently high offer in the IFM to avoid getting dispatched through the market and hence be eligible for the payment (although if taken, this offer would be subject to mitigation). Depending on the true costs of the resource, this could increase IFM LMPs. On the other hand, if resources exit the IFM by raising their offers but are then Exceptionally Dispatched in

real-time, the RTM LMP could be suppressed (due to the availability of out-of-market energy), thus reducing LMP payments through Exceptional Dispatch. The implications of these incentives need to be explored, but it will be a product of any side-payment to some degree.

5. Upon designation as an RA or ICPM unit, if that takes place during the period that a unit is being subject to Exceptional Dispatch, supplemental payments would end.

CAISO seeks comment on these eligibility requirements and market incentive issues.

Option 1 - Supplemental Daily Capacity Payment

Under this proposal the CAISO would mitigate Bids of all resources as described above but would also provide a supplemental daily capacity payment to resources without a capacity contract/designation. The daily capacity payment would be a percentage of the ICPM monthly capacity payment amount. For each calendar month, CAISO would limit the supplemental capacity payment to the amount that would have been received under the ICPM designation.

The daily capacity payment approach has the advantage of building on the ICPM proposal already before FERC and has precedent in the FERC MOO daily capacity payment based on the RCST. Moreover, some stakeholders have already indicated an interest in this approach. Payment would take place whether or not a unit is dispatched for incremental energy. One of the difficulties with this approach is determining how to measure the eligible MW for the daily capacity payment -- i.e., whether partial versus full unit procurement. This issue is discussed in the next section.

As long as there are additional rules that limit any subsequent daily payment when an ICPM designation offer is made, this proposal will not provide an incentive to forego the ICPM voluntary designation.

If this option is pursued, CAISO proposes that the capacity payment would be 1/30 of the ICPM monthly target price for Type 2 procurement, as approved by FERC.

CAISO has proposed that the ICPM Type 2 price is the higher of \$41/kW-year or a \$/kW-year rate approved by FERC.¹⁵ This proposed payment is not subject to a Peak Energy Rent (PER) deduction and each monthly payment is 1/12 of the annual payment. Upon expiration of ICPM in 2010, the ICPM price would be replaced by any subsequent price available for Type 2 backstop procurement or another pricing proposal if needed.

¹⁵ The filing can be found at <http://www.caiso.com/1bc5/1bc5db284cc80.html>.

Upon designation as an RA or ICPM unit, if that takes place during the period that a unit is being subject to Exceptional Dispatch, Daily Capacity Payments would end.

Option 2 - Energy Bid Adder

Under this proposal, the CAISO would follow the same eligibility requirements as described above, but the supplemental payment would take the form of a Bid Adder. Following the non-RA FMU Bid Adder amount as noted in MRTU Tariff section 39.8.3, CAISO proposes to adopt a \$24/MWh amount. When applied in the market, the FMU Bid Adder is added to the resource's Bid and thus sets the LMP if the unit is marginal. When applied to an out of market settlement under Exceptional Dispatch, the payment would be the higher of the LMP or the DEB + \$24/MWh.

This adder could, like the existing FMU Bid Adder, be provided only for incremental energy or, since unlike the FMU Bid Adder it is an out-of-market payment, it could be applied to all energy output under Exceptional Dispatch, including energy produced at minimum operating level and incremental energy.

An advantage of this approach is that it adopts the FMU Bid Adder that is already approved under MRTU, and would not necessarily require negotiation of a new rate. Moreover, for any particular resource, LMPs greater than the unit's DEB + \$24/MWh, as would be expected during many Exceptional Dispatches, could eliminate the need for a supplemental payment. On the other hand, this approach may alter incentives to accept an ICPM designation, depending on the number of hours each day that a unit is being Exceptionally Dispatched (if the Bid Adder provides a higher payment than the LMP). In addition, for units that are frequently Exceptionally Dispatched and not offered an ICPM designation, the total monthly payout does not have a natural cap on it as the daily capacity payment does with the monthly ICPM payment.

Measurement Issues with Both Options

Both options for supplemental payments create measurement issues for CAISO.

First, a non-RA resource may be subject to both Exceptional Dispatch and market dispatch over the operating day.

If the payment is a daily capacity payment, the question is whether to pay for all capacity, which may be well in excess of what is scheduled through Exceptional Dispatch, or some portion of it. If the payment is for less than full capacity, similar to the partial procurement option under ICPM and under the RA program, then the question is how to measure the eligible MW. One approach could be the pay up to the maximum output capacity over the operating day, whether reached through Exceptional Dispatch or market dispatch.

If the payment is a Bid Adder, then similarly, the issue is how and whether to differentiate the Bid Adder for energy under Exceptional Dispatch and under market

dispatch. The same unit might then get a Bid Adder for energy produced under Exceptional Dispatch but not under market dispatch.

Clearly, the final approach must balance administrative simplicity with the objective to provide a reasonable supplemental payment.

6 Implementation Issues

Some implementation issues were discussed in the original DMM paper issued on November 30, 2007¹⁶ and focused on the application of a mitigation rule. Any of the proposed options discussed above – the proposed market power mitigation rule for Exceptional Dispatches for local reliability and any other pricing rules – would require certain modifications in the MRTU system or processes. Additional assessment of implementation issues by various other areas of the CAISO is needed as part of the CAISO's overall assessment of this issue.

Grid Operations, Settlements, SIBR and MQS systems have been configured to handle the Exceptional Dispatch rules as described in the current MRTU Tariff and the exact impact of any changes created by the proposals above will need to be further explored when we are closer to understanding the direction that we will be going. Based on general discussions that have been had with the above mentioned groups any changes at this point in time will not be easily configured into the existing systems and tools but internal discussions will continue as we proceed through the stakeholder process.

¹⁶ DMM paper title "Mitigation of Potential Market Power Under MRTU Exceptional Dispatch Provisions" located at: <http://caiso.com/1ca9/1ca98ee3221f0.pdf>

Attachment 1

Relevant Excerpts on Exceptional Dispatch from the CAISO Tariff and FERC Orders

1. CAISO Tariff Excerpts (updated as of 10/12/07)

34.9 Exceptional Dispatch.

The CAISO may perform Exceptional Dispatches for the circumstances described in this Section 34.9, which may require the issuance of forced Shut Downs or forced Start-Ups. The CAISO shall conduct all Exceptional Dispatches consistent with good utility practice. Dispatch Instructions issued pursuant to Exceptional Dispatches shall be entered manually by the Operator into the RTM optimization software so that they will be accounted for and included in the communication of Dispatch Instructions to Scheduling Coordinators. Exceptional Dispatches are not derived through the use of the RTM optimization software and are not used to establish the LMP at the applicable PNode. The CAISO will record the circumstances that have led to the Exceptional Dispatch. Imbalance Energy delivered or consumed pursuant to the various types of Exceptional Dispatch are settled according to the provisions in Section 11.5.6.

34.9.1 System Reliability Exceptional Dispatches.

The CAISO may manually dispatch Generation Units, System Units, Participating Loads, Dynamic System Resources, and Condition 2 RMR Units pursuant to Section 41.8, in addition to or instead of resources dispatched by RTM optimization software during a System Emergency, or to prevent an imminent System Emergency or a situation that threatens System Reliability and cannot be addressed by the RTM optimization and system modeling. To the extent possible, the CAISO shall utilize available and effective Bids from resources before Dispatching resources without Bids. To deal with any threats to System Reliability, the CAISO may also dispatch in the Real-Time Non-Dynamic System Resources that have not been or would not be selected by the RTM for Dispatch, but for which the relevant Scheduling Coordinator has submitted a Bid into the HASP.

34.9.2 Other Exceptional Dispatch.

The CAISO may also manually dispatch resources in addition to or instead of resources dispatched by the RTM optimization software to: (1) perform Ancillary Services testing; (2) perform pre-commercial operations testing for Generating Units; (3) mitigate for Overgeneration; (4) provide for Black Start; (5) provide for Voltage Support; (6) accommodate TOR or ETC Self-Schedule changes after the Market

Close of the HASP; or (7) to reverse a commitment instruction issued through the IFM that is no longer optimal as determined through RUC. If the CAISO dispatches an RMR Unit for Voltage Support, the RMR Unit will be compensated under its RMR Contract and not as an Exceptional Dispatch under the CAISO Tariff.

34.9.3 Transmission-Related Modeling Limitations.

The CAISO may also manually Dispatch resources in addition to or instead of resources dispatched by the RTM optimization software, during or prior to the Real-Time as appropriate, to address transmission-related modeling limitations in the Full Network Model. Transmission-related modeling limitations for the purposes of Exceptional Dispatch, including for settlement of such Exceptional Dispatch as described in Section 11.5.6, shall consist of any FNM modeling limitations that arise from transmission maintenance, lack of voltage support at proper levels as well as incomplete or incorrect information about the transmission network, for which the Participating TOs have primary responsibility. The CAISO shall also manually Dispatch resources under this Section 34.9.3 in response to system conditions including threatened or imminent reliability conditions for which the timing of the Real-Time Market optimization and system modeling are either too slow or incapable of bringing the CAISO Controlled Grid back to reliable operations in an appropriate time-frame based on the timing and physical characteristics of available resources to the CAISO.

11.5.6 Settlement Amounts for IIE from Exceptional Dispatch.

For each Settlement Interval, IIE Settlement Amount from each type of Exceptional Dispatch described in Section 34.9 is calculated as the sum of the products of the relevant IIE quantity for the Dispatch Interval and the relevant Settlement price for the Dispatch Interval for each type of Exceptional Dispatch as further described below. For MSS Operators the settlement for IIE from Exceptional Dispatch is conducted in the same manner, regardless of any MSS elections (net/gross Settlement, Load following or opt-in/opt-out of RUC).

11.5.6.1 Settlement for IIE from Exceptional Dispatches used for System Emergency Conditions, to Avoid Market Intervention, Overgeneration Conditions or to Prevent or Relieve Imminent System Emergencies.

The Exceptional Dispatch Settlement price for incremental IIE that is delivered as a result of an Exceptional Dispatch for System Emergency conditions, to avoid a Market Interruption, to mitigate Overgeneration conditions, or to prevent or relieve an imminent System Emergency, including forced Start-Ups and Shut-Downs, is the

higher of the Resource-Specific Settlement Interval LMP, the Energy Bid price or the Default Energy Bid price, if applicable and the Energy that does not have an Energy Bid price, or the negotiated price as applicable to System Resources. Costs for incremental Energy for this type of Exceptional Dispatch are settled in two payments: (1) incremental Energy is first settled at the Resource-Specific Settlement Interval LMP and included in the total IIE Settlement Amount described in Section 11.5.1.1; and (2) second, the incremental Energy Bid Cost in excess of the applicable LMP at the relevant Location is settled pursuant to Section 11.5.6.1.1. The Exceptional Dispatch Settlement price for decremental IIE not associated with an Energy Bid that is delivered as a result of an Exceptional Dispatch instruction to avoid a Market Interruption, or to prevent or relieve a System Emergency is the minimum of the Resource-Specific Settlement Interval LMP, the Energy Bid price, or the negotiated price, if applicable and the Energy that does not have an Energy Bid price. All Energy costs for decremental IIE associated with this type of Exceptional Dispatch are included in the total IIE Settlement Amount described in Section 11.5.1.1.

11.5.6.1.1 Settlement of Excess Costs for Exceptional Dispatches used for Emergency Conditions, to Avoid Market Intervention, and Avoid an Imminent System Emergencies.

The Excess Cost Payment for incremental Exceptional Dispatches used for emergency conditions, to avoid Market Interruption, or to avoid an imminent System Emergency is calculated for each resource for each Settlement Interval as the cost difference between the Settlement amount calculated pursuant to Section 11.5.6.1 for the applicable Exceptional Dispatch at the Resource-Specific Settlement Interval LMP and delivered Exceptional Dispatch quantity at one of the following three costs: (1) the resource's Energy Bid Cost, (2) the Default Energy Bid cost, or (3) the Energy cost at the negotiated price, if applicable, for the relevant Exceptional Dispatch.

11.5.6.2 Settlement of IIE from Exceptional Dispatches caused by Modeling Limitations.

11.5.6.2.1 Exceptional Dispatches Not Associated with an Energy Bid for Transmission-Related Modeling Limitations.

The Exceptional Dispatch Settlement price for IIE not associated with an Energy Bid that is consumed or delivered as a result of an Exceptional Dispatch to mitigate or resolve Congestion as a result of a transmission-related modeling limitation in the FNM as described in Section 34.9.3 is the maximum of the Resource-Specific Settlement Interval LMP, Energy Bid Price or the Default Energy Bid price, if applicable and the Energy that does not have an Energy Bid Price, or the negotiated price as applicable to System Resources. Costs for incremental Energy for this type of Exceptional Dispatch are settled in two Payments: (1) incremental Energy is first settled at the Resource-Specific Settlement Interval LMP and included in the total IIE Settlement Amount described in Section 11.5.1.1; and (2) second, the incremental Energy Bid costs in excess of the applicable LMP at the relevant Location are settled per Section 11.5.6.2.3. The Exceptional Dispatch Settlement price for decremental

IIE for this type of Exceptional Dispatch is the minimum of the Resource-Specific Settlement Interval LMP Energy Bid Price or the Default Energy Bid price, if applicable and the Energy that does not have an Energy Bid Price, or the negotiated price as applicable to System Resources. Costs for decremental IIE associated with this type of Exceptional Dispatch are settled in two Payments: (1) decremental Energy is first settled at the Resource-Specific Settlement Interval LMP and included in the total IIE Settlement Amount described in Section 11.5.1.1; and (2) second, the decremental Energy Bid costs in excess of the applicable LMP at the relevant Location are settled per Section 11.5.6.2.3.

11.5.6.2.2 Exceptional Dispatches Associated with an Energy Bid for Transmission-Related Modeling Limitations.

The Exceptional Dispatch Settlement price for incremental IIE associated with an Energy Bid that is consumed or delivered as a result of an Exceptional Dispatch to mitigate or resolve Congestion as a result of a transmission-related modeling limitation in the CAISO FNM as described in Section 34.9.3 is the maximum of the Resource-Specific Settlement Interval LMP or the Energy Bid Price. Costs for incremental Energy for this type of Exceptional Dispatch are settled in two Payments: (1) incremental Energy is first settled at the Resource-Specific Settlement Interval LMP and included in the total IIE Settlement Amount described in Section 11.5.1.1; and (2) second, the incremental Energy Bid costs in excess of the applicable LMP at the relevant Location are settled per Section 11.5.6.2.3. The Exceptional Dispatch Settlement price for decremental IIE for this type of Exceptional Dispatch is the minimum of the Resource-Specific Settlement Interval LMP or the Bid price. Costs for decremental IIE associated with this type of Exceptional Dispatch are settled in two Payments: (1) decremental Energy is first settled at the Resource-Specific Settlement Interval LMP and included in the total IIE Settlement Amount described in Section 11.5.1.1; and (2) second, the decremental Energy Bid costs in excess of the applicable LMP at the relevant Location is settled per Section 11.5.6.2.3.

2. Excerpt from *California Independent System Operator Corporation, Order Conditionally Accepting the California ISO's Electric Tariff Filing to Reflect Market Redesign and Technology Upgrade (Tariff Amendment No. 44 and Proposed MRTU Tariff) (September 21, 2006)*, in Docket Nos. ER06-615-000 and ER02-1656-027, et al.

266. We deny WPTF/IEP's request to modify the proposed provisions for Exceptional Dispatch. WPTF/IEP objects that the definition of "system emergency" in the MRTU Tariff is too broad and that the proposal for Exceptional Dispatches would result in undue intervention in market outcomes. However, the CAISO has not proposed to change the definition of "system emergency" provided in the MRTU Tariff from the definition in the CAISO's existing tariff, which the Commission has found to be just and reasonable. We note that in instances where a system emergency exists, or

there is the potential, that cannot be addressed by the real-time market optimization software, it is reasonable for the CAISO to take whatever other actions may be available consistent with good utility practice to address the emergency. The proposal for Exceptional Dispatches would not result in undue intervention in market outcomes because section 3.9.1 does not authorize Exceptional Dispatches when the real-time market optimization software can address an imminent system emergency. We also disagree with WPTF/IEP and Constellation/Mirant that Exceptional Dispatches should be allowed to set the market price. LMPs should reflect the marginal cost of energy, in order to send accurate price signals. However, manual Exceptional Dispatch instructions differ from those derived from the real-time market optimization software. Units manually dispatched in Exceptional Dispatches need not represent the marginal units, and thus, we agree with the CAISO that it would not be appropriate for such units to set the market price. Units producing energy for Exceptional Dispatch are paid at least the higher of the applicable settlement interval LMP or the unit's bid price. For many types of Exceptional Dispatch, the unit may alternatively receive the default energy bid price (in the event that the energy does not have a bid price), which is higher than the applicable LMP, or the negotiated price as applicable to System Resources.

267. We do however share WPTF/IEP's and others' concern that Exceptional Dispatch should not become a frequent occurrence and should be reserved for genuine emergencies where the CAISO needs to take actions outside the market software for maintaining system reliability. Therefore, we direct the CAISO, for transparency reasons, to publish all instances of Exceptional Dispatch on its OASIS website beginning on the effective date of MRTU Release 1. The OASIS website report should include, at a minimum, total hourly volumes and hourly weighted average prices, by transmission operator service territory. We will monitor the occurrence of and the method by which CAISO employs Exceptional Dispatch and if necessary will direct changes.

3. Excerpt from *California Independent System Operator Corporation, Order Addressing Requests For Rehearing And Clarification (Issued October 15, 2007)*, in Docket No. ER06-615-009

D. MRTU Tariff Section 34.9.3, Transmission-Related Modeling Limitation

36. Under section 34.9.3 of the MRTU Tariff, the CAISO proposed to make clear that the CAISO has the authority to manually dispatch resources in order to address transmission-related modeling limitations in the Full Network Model (FNM). Specifically, the CAISO defined transmission-related modeling limitations as "any FNM modeling limitations that arise from transmission maintenance, lack of voltage support at proper levels as well as incomplete or incorrect information about the transmission network, for which the Participating Transmission Owners have primary responsibility."

37. In its comments to the CAISO's compliance filing, Southern California Edison Company (SoCal Edison) argued that the CAISO's proposed definition of transmission-related modeling limitation was overly broad, and requested that the Commission require the CAISO to revise proposed MRTU Tariff section 34.9.3 in order to specify that a modeling limitation "results when the real-time network constraints and limitations significantly differ from those that were assumed in the Integrated Forward Market, such that CAISO reliance on its real-time market would not be sufficient to maintain reliable grid operations."¹⁷ The Commission agreed with SoCal Edison that the CAISO's proposed definition of transmission-related modeling limitation was too broad, but rejected SoCal Edison's requested modification to section 34.9.3, as too restrictive "because the definition would only be applicable to real-time occurrences where the CAISO has made use of all resources to maintain reliability."¹⁸ The Commission further stated that:

to be consistent with sections 34.9.1 (System Reliability Exceptional Dispatches) and 34.9.2 (Other Exceptional Dispatch), the Commission directed the CAISO to modify section [34.9.3]¹⁹ to acknowledge that Exceptional Dispatches will only be used in response to threatening/imminent reliability conditions for which the real-time market optimization and system modeling are either too slow or incapable of bringing the grid back to reliable operation in an appropriate time frame (*i.e.* less than 30 minutes).²⁰

38. On rehearing, the CAISO states that it does not take issue with the Commission's directive to add language to section 34.9.3. However, the CAISO believes that the Commission should clarify that the CAISO will be permitted to issue Exceptional Dispatches prior to real time to address transmission related modeling limitation in the Full Network Model. The CAISO states that clarification is appropriate because it would be unreasonable to require the CAISO to wait until real time to issue an Exceptional Dispatch to address transmission-related modeling limitations in the Full Network Model if the CAISO has anticipated, prior to real time, that there will be threats to reliable grid operations that the CAISO cannot solve through real-time optimization and system modeling.

39. The CAISO also seeks clarification that the Commission directive in Paragraph 443, stating that "Exceptional Dispatches will only be used in response to threatening/imminent reliability conditions for which the real-time market optimization and system modeling are either too slow or incapable of bringing the grid back to reliable operation in an appropriate time frame (*i.e.* less than 30 minutes)," did not intend to imply that the CAISO's authority under section 34.9.1 or section 34.9.2 is limited to acting only in real time. The CAISO contends that it would be

¹⁷ June 25 Order, 119 FERC ¶ 61,313, at P 434-436.

¹⁸ *Id.* P 442.

¹⁹ P 443 of the June 25 Order contains a typographical error. The tariff section number should be "34.9.3."

²⁰ *Id.* P 443.

unreasonable to assume that the CAISO could not issue an Exceptional Dispatch during a System Emergency or to prevent an imminent System Emergency under these sections. Furthermore, the CAISO argues that the result is inconsistent with the September 21 Order stipulating that Exceptional Dispatches should be reserved for genuine emergencies.²¹

Commission Determination

40. We grant clarification on the issue of the CAISO's ability to issue exceptional dispatches prior to the real-time market. In the June 25 Order, we explained that "[t]he Commission does not want to confine the CAISO to real-time solutions or comparing real-time conditions with planned conditions, especially if the CAISO is capable of resolving any reliability concerns before they reach the emergency stage."²² Because exceptional dispatches are designed to cope with events that occur outside of normal market operations, in order to address specific reliability problems,²³ we clarify that the CAISO should not be prohibited, under sections 34.9.1 and 34.9.3, from issuing manual dispatch instructions during system emergencies, threatening/imminent emergencies, or to correct transmission-related modeling limitations. We further clarify that these sections are not limited to only real-time decisions but also allow the CAISO to respond to reliability conditions prior to real time. We find it reasonable for the CAISO to have the ability to manually dispatch units without delay or, at minimum, provide notice to those units that require more time to start-up and synchronize with the system to address certain reliability conditions prior to real time. For these reasons, we grant clarification on this issue.

41. We further clarify that it was not the intent of the Commission to limit the CAISO's authority under section 34.9.2 (Other Exceptional Dispatches) to only threatening/imminent reliability conditions, which the real-time optimization software cannot address. The CAISO listed three types of activities that it does not believe would be covered by section 34.9.2 under the Commission's current interpretation of that section. Specifically, the CAISO states that these activities include ancillary services testing, performance of pre-commercial operations testing for generating units and to accommodate ETCs or TOR) self-schedules. For instance, it explains that in order to honor ETC/TOR schedule changes, the CAISO will at times have to manually dispatch units under its exceptional dispatch authority because the real-time market optimization software is incapable of addressing such ETC/TOR schedule changes.

42. We accept the CAISO's rationale for having the flexibility to dispatch units under exceptional dispatch authority beyond those circumstances that threaten system reliability. We note that it was never the Commission's intent to limit that the CAISO's ability to honor these contracts to circumstances that threaten reliability. Thus, we grant clarification on this issue. We recognize that it may be necessary for the

²¹ CAISO cites to September 21 Order, 116 FERC ¶ 61,274 at P 267.

²² June 25 Order, 119 FERC ¶ 61,313 at P 442.

²³ See September 21 Order, 116 FERC ¶ 61,274 at P 245-265.

CAISO to issue exceptional dispatch instructions to address specific reliability issues that are outside of normal market operations. Notwithstanding, we note that the CAISO must use all resources made available to them, as appropriate, prior to dispatching units under its exceptional dispatch authority. We also note that the CAISO, consistent with previous findings, must publish all instances of exceptional dispatch on its OASIS web site beginning on the effective date of MRTU Release 1.²⁴

²⁴ Id. P 267.

Attachment 2

List of Acronyms

CAISO	California Independent System Operator
DEB	Default Energy Bid
FERC	Federal Energy Regulatory Commission
FMU	Frequently Mitigated Unit
FNM	Full Network Model
ICPM	Interim Capacity Procurement Mechanism
IEP	Independent Energy Producers Association
IFM	Integrated Forward Market
LMP	Locational Marginal Price
LMPM	Local Market Power Mitigation
LSE	Load Serving Entity
MOWD	Must Offer Waiver Denials
MRTU	Market Redesign and Technology Upgrade
MSC	Market Surveillance Committee
MW	Megawatt
MWh	Megawatt hour
PER	Peak Energy Rent
RA	Resource Adequacy
RMR	Reliability Must-Run
RUC	Residual Unit Commitment
WPTF	Western Power Trading Forum