## **Attachment A**

## **Stakeholder Process: Proxy Demand Resource**

## **Summary of Submitted Comments**

Stakeholders submitted five rounds of written comments to the CAISO on the following dates:

- Round One, 11/12/2008
- Round Two, 1/12/2009
- Round Three, 3/20/2009
- Round Four, 4/29/2009
- Round Five, 7/24/2009

Stakeholder comments are posted at: http://www.caiso.com/23bc/23bc873456980.html

## Other stakeholder efforts include:

- Conference Calls
  - 0 1/5/2009
  - 0 2/27/2009
  - 0 3/20/2009
  - 0 4/22/2008
- In-person meetings
  - 0 11/5/2008
  - 0 1/15/2009
  - 0 3/12/2009
  - 0 4/30/2009
  - o 7/28/2009
- Other stakeholder efforts
  - o Eight in person working group meetings to refine proxy demand resource proposal held January July 2009
  - o Demand response technical design sessions held in July August of 2008

Management Proposal	Load Serving Entities, CPUC, Curtailment Service Providers	Management Response ( Completed by the ISO)
Proxy demand resource bid and settled at Custom-LAP	SCE – Support Will provide economic incentive to drive DR resource development in regions where they are most needed. Where prices are highest  PG&E - Support  EnerNOC – No comment  CPUC – Support While it is desirable to have the proxy demand resource bid and settle at the same level of granularity as generating resources to minimize the opportunity for gaming, the capability to schedule demand response at that level of granularity does not yet exist.  AREM - Support  SDG&E - Support  Six Cities – Oppose Believes disparate settlement of demand versus demand response encourages gaming which the ISO does not adequately address  CDWR – Oppose Opposes the disparate settlement of demand versus demand response  CPower - No comment  DMM – No comment	Management originally proposed that proxy demand resource be dispatched at a Custom LAP but be settled at the Default LAP consistent with the load serving entity's load. A majority of market participants commented that the different bases for dispatching and settling are at odds with motivating proxy demand resource to high-priced areas. Based on stakeholder input Management agreed to dispatch and settle proxy demand resource at the Custom LAP.
Load serving entities' load bid and settled at Default-LAP	SCE – Support Allowing loads to bid and settle at the DLAP level will allow price-responsive DR programs, which are difficult to forecast at the more granular CLAP level, to participate in wholesale power markets.  PG&E – Support EnerNOC – Support	The ISO participating load program requires that all loads within the participating load program be forecasted, bid and settled at a Custom LAP. Market participants commented that this was a barrier to entry for demand response currently participating through investor owned utility retail demand response programs to participate in the ISO wholesale markets due to the complexity of maintaining demand forecasts for scheduling of Custom LAPs and supporting demand response

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	CPUC - No Comment  AReM – Support	programs that have changes in customer enrollments from month to month. Based on input from the majority of stakeholders on this topic Management agreed to allow proxy demand resource to be settled and dispatched at the Custom
	SDG&E - Support	LAP and the load serving entity's load to continue to be forecasted, bid and settled at the Default LAP.
	Six Cities – Oppose Believes disparate settlement of Demand versus demand response encourages gaming which the ISO does not adequately address	
	CDWR – Oppose Opposes the disparate settlement of Demand versus demand response	
	CPower - No comment	
	DMM – No comment	
	PG&E	
	EnerNOC – Oppose Recommends that the CAISO revise its proposal that bids for curtailment at the Sub-LAP be submitted by load serving entity as that proposal significantly undercuts the value of aggregation at the Sub-LAP	To simplify implementation, Management proposes that
A proxy demand resource may only contain load served by one load serving entity	CPUC - Support Given the challenges of communication and performance verification, the CPUC staff supports requiring that a proxy demand resource's underlying load must be served by one load serving entity (i.e. one load serving entity per proxy demand resource). As the development of proxy demand resource moves forward and communication and verification improve, CAISO can then consider allowing a proxy demand resource resource to be served by multiple load serving entities	initially a proxy demand resource contain load served by one load serving entity. This will simplify registration and settlements. As a future enhancement Management will address allowing a proxy demand resource to contain load served by multiple load serving entities. A proxy demand resource must have a minimum load size of 0.1 MW (100 kW) to participate in the ISO markets. Smaller Loads may be aggregated together to achieve the 0.1 MW threshold. The bid segments may be as
	AReM – No comment	low as 0.01 MW (10 kW).
	SDG&E – Support Encourages the CAISO to allow multiple load serving entities within a single proxy demand resource aggregation in future releases of proxy demand resource, since it will serve to increase the amount of demand response that will be made	

Management Proposal	Load Serving Entities, CPUC, Curtailment Service Providers	Management Response ( Completed by the ISO)
	available to the CAISO market.	•
	Six Cities – No comment	
	CDWR – No comment	
	CPower - oppose	
	DMM – No comment	
A Scheduling Coordinator that	SCE – Support	
represents a proxy demand	PG&E – Conditional	
resource can bid into the	Oppose participation in HASP	
following markets:		
Day-ahead energy	EnerNOC – No comment	The ISO has updated the final proposal to reflect that proxy
market including	CPUC – Support	demand resource can not participate, at least initially, in HASP.
RUC	Croc - Support	Participation in HASP for an internal resource presents some
Day-ahead and     Real-Time Non-	AReM – No comment	significant implementation challenges for the ISO. In addition Management has concerns that determining the ability for a
Spinning Reserve market	SDG&E – No comment	proxy demand resource to participate in HASP based on metering may create adverse incentives. Management proposes
Hour-Ahead     Scheduling Process	Six Cities – No comment	that proxy demand resource be treated the same as other in area resources.
(HASP)	CDWR – No comment	
• 5- Minute Real-	CPower - No comment	
Time Energy market		
	DMM – No comment	
	SCE – Support	The adjustment to the load serving entity's day-head schedule
	This mechanism should provide the best mechanism for reconciling load drop with	in settlements for the purposes of calculating uninstructed
Load serving entity's Day-Ahead	a load serving entity's forecasted load schedule	deviation based on the performance of the proxy demand
schedule is adjusted post market	DC 0 F G	resource avoids the ISO double paying for the demand
in settlements based on the performance of the proxy demand	PG&E - Support	response, i.e., paying the curtailment service provider for the demand response and also paying the load serving entity
resource resource for the purpose	EnerNOC – No comment	uninstructed deviation for the same demand response. It also
of settlement of uninstructed	Zhorros 110 comment	ensures that the load serving entity is not harmed due to non-
deviation	CPUC – No comment	compliance by the proxy demand resource resource. The
		adjustment to the load serving entity schedule is done post
	AReM – Conditional	market in settlements so the load serving entity's full load

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	Disadvantage of the proposal is that load serving entity pays for power in the Day-Ahead market that is not consumed.	quantity does clear and settle from the Day-Ahead market
	SDG&E – No comment.	
	Six Cities – No comment	
	CDWR – No comment	
	CPower - No comment	
	DMM – No comment	
	SCE – Support	
	Allowing curtailment service providers to settle independent of their corresponding load serving entity would simplify the overall DR settlement process.	
	PG&E - Support	
	EnerNOC – No comment	The ISO initially proposed that settlement for proxy demand
The settlement for the curtailed portion of the load settled by the ISO directly with the retail demand response aggregator (curtailment service provider) at the specified Custom-LAP of the proxy demand resource	CPUC – Support	resource occur only with the load serving entity. This proposal was rejected by a majority of market participants engaged in th stakeholder process. Stakeholders commented that settling with the curtailment service provider directly would support FERC Order 719 requirement that the retail aggregator or curtailment service provider participate in the ISO markets as a separate
	AReM – Conditional No compensation to load serving entity for load not consumed in the Day-Ahead market	
	SDG&E –Support	entity from the load serving entity and appropriately aligns the risk and liabilities with curtailment service providers.
	Six Cities – No comment	
	CDWR – No comment	
	CPower - No comment	
	DMM – No comment	

Management Proposal	Load Serving Entities, CPUC, Curtailment Service Providers	Management Response ( Completed by the ISO)
Settlements between the load serving entity and CSP and End-Use Customer will require commercial agreements outside of the ISO	SCE – Support  PG&E – Support  EnerNOC – Conditional There is no process in place to facilitate this issue and it needs to be resolved in advance of curtailment service provider participation in proxy demand resource.  CPUC – Support The CPUC staff expects to address such agreements in a CPUC proceeding in the near future. The CPUC staff believes that creating these agreements is not within the purview of the CAISO, and supports the CAISO deferring this matter to the Local Regulatory Authorities  AReM – Conditional Supports if additional requirements are added as a condition of registration  SDG&E - Support Given the current level of Direct Access participation in CAISO markets this is acceptable initially, but should be revisited in conjunction with any further DA policy development.  Six Cities – No comment  CDWR – No comment  CPower - Conditional Should be formally addressed through a properly regulated process that produces a fair and transparent result for all participants  DMM – No comment	Management proposed a hybrid option for settlements that would mandate a settlement at an agreed upon price between the load serving entity and the curtailment service provider. This proposal was not supported by a majority of market participants. Therefore it was agreed that any settlements that occur outside of what happens between the ISO and the curtailment service provider will occur outside of the ISO settlement process. The ISO will assume that commercial agreements are in place when the proxy demand resource is submitted for registration with the ISO. If not, the load serving entity has the right not to approve the registration of the proxy demand resource.
The ISO will administer a registration system to manage the registration of new proxy demand resources, the movement of resources in and out of the proxy demand resource and provide a process for load serving entity's to approve any proxy demand resource that contains their load.	SCE – No comment  PG&E – Conditional ISO should clarify that a load serving entity can reject a registration for any reason.  EnerNOC – Conditional Object to the language that requires the load serving entity and UDC entities for the resource to "approve" the Registration before it can become active and	The majority of stakeholders agreed that additional settlement transactions beyond what takes place between the ISO and the curtailment service provider will occur outside of the ISO settlement process. The ISO will provide a registration system to ensure that a registered proxy demand resource has the approval of the load serving entity whose load may be part of an aggregate proxy demand resource prior to participating in the wholesale markets. The ISO assumes commercial agreements are in place when the proxy demand resource is

Management Proposal	Load Serving Entities, CPUC, Curtailment Service Providers	Management Response
Training of the Property of th		( Completed by the ISO)
	participate in the wholesale markets.	registered and approved by the relevant parties. As such, the
	CDUC No constant	ISO will not ensure the existence of a commercial agreement as
	CPUC – No comment	part of the registration process. Nor will the ISO require data
	AD M. Confident	for settlements are exchanged between the curtailment service
	AReM – Conditional	provider and the load serving entity as a condition of registration. These commercial arrangements are to be
	ISO should require that commercial agreements be in place for the proxy demand resource to be registered. The ISO should also require that as a condition of	addressed by the contracting parties and, appropriately, take
	registration the curtailment service provider transmit specified customer-specific	place outside of ISO processes. Any rules defined for these
	data to the load serving entity on a timely basis throughout the operation of the	commercial agreements should be defined by the local
	proxy demand resource.	regulatory authority, where applicable, as the ISO has no
	proxy demand resource.	jurisdiction or authority over this matter. If the local regulatory
	SDG&E – Support	authority defines specific rules, then ISO may consider adding
	The registration process could be administered by a third party allowing the	additional conditions as a precursor to registration of the proxy
	CAISO systems to remain focused on features that are necessary for operating the	demand resource.
	wholesale electric market	3577477
		Other stakeholders commented that they do not want the load
	Six Cities –No comment	serving entity to have rejection rights over the proxy demand
	CDWR – No comment	resource. Since the load is served by the load serving entity and
	CPower - Conditional	the load serving entity will pay for Day-Ahead power that is not
		consumed as a result of the dispatch of the proxy demand
	DMM – No comment	resource the load serving entity does ultimately have the ability
		to approve or reject a proxy demand resource registration.
	SCE – No comment	
		A majority of stakeholders supported in comments the general
	PG&E – No comment	idea that a baseline methodology be applied to determine the
		performance of the proxy demand resource. Most stakeholders
	EnerNOC – Conditional	did not submit detailed comments on the specific 10 out of 10
	Objects to the CAISO's declaration that it will use an aggregated baseline for	methodology proposed by Management with the exception of
	measuring performance. Support applying baseline on an individual customer	EnerNOC, CPower and SDG&E. The proxy demand resource
Determination of actual proxy demand response delivery will	basis. Concerns about 20% limit up or down on the morning adjustment.	proposal is a wholesale demand response program. While
	CPUC – Support	individual resources may meet the minimum participation requirements, it is also expected that many smaller resources
be derived from measurement of	CAISO Proposal and the CPUC baseline seem sufficiently coordinated to	will "pool" together as an aggregate resources. The treatment
aggregate meter usage using a 10 out of 10 baseline methodology	minimize the potential gaming opportunities between the wholesale and retail	of such an aggregate resource will be on par with a single
	markets. Therefore, the CPUC staff supports the CAISO's proposed baseline,	participating resource – registration and qualification will be on
	contingent on a consistent final CPUC decision in A.08-06-001	the aggregate, dispatch will be on the aggregate, and hence
	contingent on a consistent tillar of the accision in A.00-00-001	performance evaluation should equally be on the aggregate.
	AReM – No comment	performance evaluation should equally be on the aggregate.
	SDG&E – Support	
	While aggregated baseline energy settlement is	
	appropriate as long as the one curtailment service provider to load serving entity	
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	rule applies, it must be revisited once this requirement is relaxed	( = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	SDG&E supports the proposed methodology and that it might require Modification as the program expands or is better informed by operational experience. Any modifications to the baseline methodology should be coordinated with CPUC baseline methodology to provide consistency between retail and wholesale settlement  Six Cities – No comment  CDWR – Oppose Should be more than one baseline option  CPower - Conditional Applying baseline on aggregate is an inferior approach and less fair to participants than determining performance on an individual basis, and requires very little additional work since the data is available anyway.  DMM – No comment	
The ISO will employ a measurement and verification plan to validate DR performance and address gaming issues	SCE – No comment  PG&E – Conditional Supports use of minimum bid price  EnerNOC – No comment  CPUC – Conditional Supports the use of a minimum bid price in addition to measurement and verification for at least the first year of operation  AReM – No comment  SDG&E – Support The actual investigation of any apparent gaming activity once proxy demand resource is in place is a more appropriate use of resources rather than imposing design features that may be unwarranted  Six Cities – Oppose Support use of minimum bid limit and revenue cap	The ISO will monitor proxy demand resource performance through a series of metrics that will be defined by April 2010. The ISO will request proof of performance from the curtailment service provider if there is concern that the proxy demand resource has been compensated for demand response it did not provide. Regardless of whether or not the ISO imposes additional market design limits on proxy demand resource such as bid limits and revenue caps, a robust monitoring and verification program is required to monitor demand response performance.

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	CDWR – Oppose Gaming concerns not adequately addressed  CPower - No comment  DMM – Conditional Requires commitment by CAISO management to provide resources	

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