



## Release Notes – Business Rules Version 11.01X Up to Fall 2020 Release for SIBR/BSAP/RC-BSAP

### Revision History

Date	Version	By	Description
10/27/2020	2.0	WT	Latest as of 10/27/2020 includes changes after 10.3 and 11.0.1.
6/17/2020	1.0	WT	Initial Draft for Fall 2020 set. NPM main focus.



For the Release Notes **version 1.0 this will be the Baseline Release** and is referenced in the revision history as the Initial Draft.

For modifications and adjustments of the Business Rules(BR) for SIBR/BSAP/RC-BSAP that come after the Baseline Release the revision history will **show an Incremental change** with the new BR(vX.X.x). The incremental changes will be listed on top of the baseline.

The Baseline Release will identify all the Projects associated with the SIBR/BSAP/RC-BSAP Release and if there are any changes to the UI or API web services. Changes to the UI will be documented in the SIBR SC Users Guide, BSAP Users Guide, or the RC-BSAP Users Guide. Web services changes will be documented in the Technical Specifications and posting of the related artifacts on the application pages on our Developers site.

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//////////////////////////////////// **Incremental Release** //////////////////////////////////////

This set of Release Notes covers the changes going forward from the Business Rules Version 10.3 and 11.0.1. The latest rule set version is 11.0.4.2.

**Incremental Fall 2020 Release Impact Updates**

The timing of this release will also incorporate the deployment of the underlying User Interface (UI) architecture using WebSDK 3.5 for SIBR/BSAP/RCBSAP. User Guides have been updated with respect to changes for WebSDK 3.5. In addition to the UI change there is also a minor change to the xsd for the BSAP BalancingTestResults v2 web service that will include sub zones. The sub zones are part of the EIM BANC changes used in Map Stage. The BalancingTestResults v1 is still supported. The BSAP Tech Specs have been updated on the developer site to reflect this change.

The following elements defined below give a quick overview of the incremental changes to the systems that interface with the Business Rules.

<b>Application</b>	<b>Element</b>	<b>Change</b>	<b>Comment</b>
<b>SIBR</b>	SIBR UI	<b>YES</b>	<b>WEBSDK 3.5</b>
	SIBR Web Services	<i>NO</i>	
	SIBR Rules	<b>YES</b>	<b>11.0.4.2 (NPM/EIM/ESDER/CCDEBE)</b>
<b>BSAP</b>	BSAP UI	<b>YES</b>	<b>Manual Dispatch visibility WEBSDK 3.5</b>
	BSAP Web Services	<b>YES</b>	<b>BalancingTestResultsv2 new xsd (same service)</b>
	BSAP Rules	<b>YES</b>	
<b>RC-BSAP</b>	RC-BSAP UI	<b>YES</b>	<b>WEBSDK 3.5</b>
	RC-BSAP Web Services	<i>NO</i>	

	RC-BSAP Rules	<i>NO</i>	
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## Revision History for Rules: (post 10.3 and 11.01)

Version 10.3.2 and below are in Production supported rules.

11.0.2	6/1/2020	Added term NPM Resource	NPM
11.0.2	6/1/2020	Modified 71039 and 71001-71003 to suppress the generation of multi-period bids for resources participating in the NPM.	NPM
11.0.3	6/23/2020	Added changes from <b>10.3.1</b> for 41918 and 41925 to exclude PDR Long Start RA non-MOO from RA RUC Obligation insertion.	CQ 12919
	9/8/2020	Added changes for <b>10.3.2</b> , <b>10.3..3</b> Exports	CQ13297
11.0.4	10/2/2020	Incorporated changes from <b>10.4.</b>	CCDEBE
11.0.4	10/2/2020	Modified 41926 to exclude PDR Long Start RA non-MOO from RA RUC Obligation insertion.	
11.0.4	10/2/2020	Modified 38014 and 38016 to support submission of base schedules between zero and a generating resource Pmin.	EIM 2020
11.0.4	10/2/2020	Added Terms PSH Group and PSH Group Schedule Direction Flag	EIM LADWP
11.0.4	10/2/2020	Added 51060 and 58011 to specify bid generation and special processing rules for PSH Generating resources defined in a PSH Group.	EIM LADWP
11.0.4	10/2/2020	Added 61045 and 68005 to specify bid special processing rules for PSH Generating Resources defined in a PSH Group.	EIM LADWP
11.0.4.1	10/9/2020	Removed rules 51060, 58011, 61045, 68005 post close for PSH Group.	EIM LADWP
11.0.4.1	10/9/2020	Added 31305, 31971, 31419, 31420, 38063, 38064, 38065 for PSH Group validation.	EIM LADWP

11.0.4.2	10/21/2020	Added 31006, 32007, 33002, 34004 for NPM SC submit for DAM for NPM resource.	DA NPM SC
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### Incremental Revision of Terms for Fall 2020 Release:

Name	Acronym	Definition
NPM Resource		A resource which participates in the Nodal Pricing Market.
PSH Group		A grouping of Pumped-Storage Hydro (PSH) Units whose individual operating characteristics are dependent on operating characteristics of other resources in the group.
PSH Group Schedule Direction Flag		A Yes/No flag indicating whether resources in the PSH Group need to schedule consistently in gen mode or pump mode. Yes indicates that all resources in the group need to self-schedule (or base schedule) and submit bids for the same mode.
Incremental PT Self-Schedule Quantity		The positive difference between the PT Self-Schedule Quantity specified in a RTM PT Self-Schedule Bid Component and the <b>RUC</b> Schedule for the same Trading Hour.
Fuel Region Update Flag		A Yes/No flag indicating whether the Reasonableness Threshold Gas Price Index was based on a same-day update.
Manual Consult Flag		A Yes/No flag indicating whether the Gas Price Index was based on a manual consultation.
Manual Consult Minimum Load Fuel Cost		The cost of the fuel consumed by a Generating Resource operating at its Minimum Load. Gas price from a manual consultation is used in the calculation.
Manual Consult Start-Up Fuel Cost Curve		A Start-Up Fuel Cost versus Cooling Time curve for a Generating Resource. Gas price from a manual consultation is used in the calculation.



## Incremental Business Rules Impacted – Fall 2020 Release:

Rule changes for the Version 11. x are located below. Modified Text in red, new rules will be all red. Rule changes are in order per version starting with 10.3.1 through 11.0.4.2.

### BR 10.3.1.

Modified rules are as follows:

Market	Business Rule ID	Description	Comments
DAM	41918	<p>If there is no RUC Bid Component for a Trading Hour and an Online Generating Resource State of a Generating Resource in a Generating Resource Bid, the RA Flag and the Flexible RA Flag for that Generating Resource and Trading Hour are "Yes" and "No", respectively, that Generating Resource is not registered as a MOO Resource <b>and not as a PDR and LSR</b> for that Trading Hour, a RUC Bid Component must be generated for that Online Generating Resource State and Trading Hour in that Bid with a RA RUC Obligation equal to the lower of a) the Upper Economic Limit of the Energy Bid Curve specified in the Energy Bid Component for that Online Generating Resource State and Trading Hour in that Bid, if any, or otherwise the Total Self-Schedule Quantity derived from all Self-Schedule Bid Components for that Online Generating Resource State and Trading Hour in that Bid, or b) the RA Capacity for that Generating Resource and Trading Hour.</p> <p>If the External Bid Status is not set to "M" (Modified) or "CM" (Conditionally Modified), set the External Bid Status to "MI" (Valid).</p>	<p>RUC Bid Component and RA RUC Obligation generation for non-MOO Resources; RA RUC Obligation is not biddable. RA Flag Y FRA Flag N MOO N <b>Excludes PDR Long Start resource.</b></p>
DAM	41925	<p>If there is no RUC Bid Component for a Trading Hour and an Online Generating Resource State of a Generating Resource in a Generating Resource Bid, the RA Flag and the Flexible RA Flag for that Generating Resource and Trading Hour are "No" and "Yes", respectively, that Generating Resource is not registered as a MOO Resource <b>and not as a PDR and LSR</b> for that Trading Hour, a RUC Bid Component must be generated for that Online Generating Resource State and Trading Hour in that Bid with a RA RUC Obligation equal to the lower of a) the Upper Economic Limit of the Energy Bid Curve specified in the Energy Bid Component for that Online Generating Resource State and Trading Hour in that Bid, if any, or otherwise the Total Self-Schedule Quantity derived from all Self-Schedule Bid Components for that Online Generating</p>	<p>RUC Bid Component and RA RUC Obligation generation for non-MOO Resources; RA RUC Obligation is not biddable. RA Flag N FRA Flag Y MOO N <b>Excludes PDR Long Start resource.</b></p>

		<p>Resource State and Trading Hour in that Bid, or b) the Flexible RA Capacity for that Generating Resource and Trading Hour.          If the External Bid Status is not set to "M" (Modified) or "CM" (Conditionally Modified), set the External Bid Status to "MI" (Valid).</p>	
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### BR 10.3.2 / 10.3.3

Market	Business Rule ID	Description	Comments
RTM	43205	If there is no Energy Bid Component and no Self-Schedule Bid Component in an <b>Import</b> Resource Bid, but there is a Day-Ahead Schedule for the <b>Import</b> Resource and Trading Hour specified in that Bid, a PT Self-Schedule Bid Component must be generated in that Bid with a PT Self-Schedule Quantity equal to that Day-Ahead Schedule.	<b>Import Resource</b> template rule.
DEL	43206	If the PT Self-Schedule Quantity specified in a PT Self-Schedule Bid Component for a Trading Hour in an Export Resource Bid is greater than the RUC Schedule for that Export Resource and Trading Hour, that PT Self-Schedule Quantity must be reduced to that RUC Schedule, and if reduced to zero, the corresponding PT Self-Schedule Bid Component must be erased from that Bid; if there is no LPT Self-Schedule Bid Component for that Trading Hour in that Bid, a LPT Self-Schedule Bid Component must be generated for that Trading Hour in that Bid with a LPT Self-Schedule Quantity equal to the corresponding PT Self-Schedule Quantity reduction, otherwise the LPT Self-Schedule Quantity specified in the LPT Self-Schedule Bid Component for that Trading Hour in that Bid must be increased by the corresponding PT Self-Schedule Quantity reduction.	PT to LPT Self-Schedule conversion for PT Self-Schedule above the RUC Schedule.
RTM	43207	If there is no Energy Bid Component and no Self-Schedule Bid Component in an Export Resource Bid, but there is a RUC Schedule for the Export Resource and Trading Hour specified in that Bid, a PT Self-Schedule Bid Component must be generated in that Bid with a PT Self-Schedule Quantity equal to that RUC Schedule.	Export Resource template rule.
RTM	63020	If there is a Supporting Resource specified in a PT Self-Schedule Bid Component in an Export Resource Bid, the Incremental PT Self-Schedule Quantity for the Export Resource and Trading Hour specified in that Bid must be calculated as the positive difference	

	between the PT Self-Schedule Quantity specified in that PT Self-Schedule Bid Component and the RUC Schedule for that Export Resource and Trading Hour.	
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## BR 10.4 CCDEBE

Modified rules are as follows:

Market	Business Rule ID	Description	Comments
ALL	10060	The configurable Relative Proxy Start-Up Cost Ceiling must be initialized to 1.25.	
ALL	10061	The configurable Relative Proxy Minimum Load Cost Ceiling must be initialized to 1.25.	
ALL	10062	The configurable Relative Proxy State Transition Cost Ceiling must be initialized to 1.25.	
ALL	41120	The Start-Up Cost Bid Curve specified in the generated Start-Up Bid Component for an Online Generating Resource State in a Generating Resource Bid must be the difference between the Default Start-Up Bid Curve for that Online Generating Resource State of the Generating Resource and Bid Period specified in that Bid and the Start-Up Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, and then divided by the Relative Proxy Start-Up Cost Ceiling, plus the Start-Up Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period, and the Default Start-Up Bid Curve Origin for the Default Start-Up Bid Curve is not "EX_ANTE" nor "THRESHOLD", and if either 1) the Generating Resource is registered as a Natural Gas Resource with a Manual Consult Flag of "NO" for that Bid Period, or 2) the Generating Resource is not registered as a Natural Gas Resource for that Bid Period. If the External Bid Status is not set to "M" (Modified) or "CM" (Conditionally Modified), set the External Bid Status to "MI" (Valid).	

ALL	41133	The Default Start-Up Bid Curve for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be the product of the Relative Proxy Start-Up Cost Ceiling and the Proxy Start-Up Cost Curve for that Online Generating Resource State of that Generating Resource and Bid Period, plus the Start-Up Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period and if either 1) the Generating Resource is registered as a Natural Gas Resource with a Manual Consult Flag of "NO" for that Bid Period, or 2) the Generating Resource is not registered as a Natural Gas Resource for that Bid Period.	Start-Up Cost capped by the Relative Proxy Start-Up Cost Ceiling plus the Start-Up Opportunity Cost.  Does not apply to resources that have had a gas price revision due to a manual consultation with the ISO.
ALL	41205	The Minimum Load Cost specified in the generated Minimum Load Cost Bid Component for an Online Generating Resource State of a Generating Resource Bid must be the difference between the Default Minimum Load Bid for that Online Generating Resource State of the Generating Resource and Bid Period specified in that Bid and the Minimum Load Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, and then divided by the Relative Proxy Minimum Load Cost Ceiling, plus the Minimum Load Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period, and the Default Minimum Load Bid Origin for the Default Minimum Load Bid is not "EX_ANTE" nor "THRESHOLD", and if either 1) the Generating Resource is registered as a Natural Gas Resource with a Manual Consult Flag of "NO" for that Bid Period, or 2) the Generating Resource is not registered as a Natural Gas Resource for that Bid Period. If the External Bid Status is not set to "M" (Modified) or "CM" (Conditionally Modified), set the External Bid Status to "MI" (Valid).	
ALL	41230	The Default Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be the product of the Relative Proxy Minimum Load Cost Ceiling and the Proxy Minimum Load Cost for that Online Generating Resource State of that Generating Resource and Bid Period, plus the Minimum Load Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period and if either 1) the Generating Resource is registered as a Natural Gas Resource with a Manual Consult Flag of "NO" for that Bid Period, or 2) the Generating Resource is not registered as a Natural Gas Resource for that Bid Period.	Minimum Load Cost capped by the Relative Proxy Minimum Load Cost Ceiling plus the Minimum Load Opportunity Cost.  Does not apply to resources that have had a gas price revision due to a manual consultation with the ISO.

ALL	41645	<p>The Reasonableness Threshold Start-Up Bid Curve for an Online Generating Resource State, whether startable or not, of a Generating Resource and Bid Period in a Generating Resource Bid must be derived as the Relative Proxy Start-Up Cost Ceiling multiplied by the sum of a) the Start-Up Energy Cost Curve, b) the Start-Up Fuel Cost Curve, c) the Greenhouse Gas Start-Up Cost Allowance Curve, d) the Major Maintenance Start-Up Cost Adder, and e) the Grid Management Charge Start-Up Cost Adder, plus the Start-Up Opportunity Cost, for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period <b>and if either 1) the Generating Resource is registered as a Natural Gas Resource with a Manual Consult Flag of "NO" for that Bid Period, or 2) the Generating Resource is not registered as a Natural Gas Resource for that Bid Period.</b></p>	<p>RLC: Greenhouse Gas Start-Up Cost Allowance Curve for Generating Resources by Online Generating Resource State (\$0/start by default). The curve breakpoints must be the same as the breakpoints of the Start-Up Energy Curve and the Start-Up Fuel Cost Curve or the Start-Up Fuel Curve for that Online Generating Resource State.</p> <p>RLC: Major Maintenance Start-Up Cost Adder for Generating Resources by Online Generating Resource State (\$0/start by default).</p> <p><b>Does not apply to resource that have had a gas price revision due to a manual consultation with the ISO.</b></p>
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ALL	41652	<p>The Reasonableness Threshold Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be derived as the Relative Proxy Minimum Load Cost Ceiling multiplied by the sum of a) the Minimum Load Fuel Cost, b) the product of the registered Operation and Maintenance Cost and the registered Minimum Load, c) the product of the Greenhouse Gas Minimum Load Cost Allowance and the registered Minimum Load, d) the Major Maintenance Minimum Load Cost Adder, and e) the product of the Grid Management Charge Minimum Load Cost Rate and the registered Minimum Load, plus the Minimum Load Opportunity Cost, for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period <b>and if either 1) the Generating Resource is registered as a Natural Gas Resource with a Manual Consult Flag of "NO" for that Bid Period, or 2) the Generating Resource is not registered as a Natural Gas Resource for that Bid Period.</b></p>	<p>MFR: Minimum Load Fuel Cost (\$/hr) and Operation and Maintenance Cost (\$/MWh) registry by online state for Generating Resources with a Minimum Load Cost Basis of "Proxy Cost".          RLC: Greenhouse Gas Minimum Load Cost Allowance for Generating Resources by Online Generating Resource State (\$0/MWh by default).          RLC: Major Maintenance Minimum Load Cost Adder for Generating Resources by Online Generating Resource State (\$0/h by default).          RLC: Grid Management Charge Minimum Load Cost Rate (\$0/MWh by default).  <b>Does not apply to resource that have had a gas price revision due to a manual consultation with the ISO.</b></p>
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DAM	61038	<p>If there is a change to the Day-Ahead registered Gas Price Index for a Generating Resource and Trading Day or to the Day-Ahead registered Reasonableness Threshold Gas Price Index for a Generating Resource and Trading Day, the Bid Processing rules for gas prices, commitment cost and commitment cost adjustment (41014, 41131-41135, 41129, 41121-41123, 41130, 41645-41650, <del>41659-41661</del>, 41105-41110, 41118, 41126, 41119, 41127, 41225, <del>41226</del>, <del>41230</del>, <del>41231</del>, <del>41228</del>, 41224, 41206, 41207, 41652-41656, <del>41662-41664</del>, 41203, 41215-41220, 41211, 41229, 41204, 41212, 41972-41974, 41985, 41987, 41991, 41988, 41992, and 41986) must refile for all Generating Resource Bids for that Generating Resource and Trading Day.</p>	
RTM	61039	<p>If there is a change to the Real-Time registered Gas Price Index for a Generating Resource and Trading Hour or to the Real-Time registered Reasonableness Threshold Gas Price Index for a Generating Resource and Trading Hour, the Bid Processing rules for gas prices, commitment cost and commitment cost adjustment (41014, 41131-41135, 41129, 41121-41123, 41130, 41645-41650, <del>41659-41661</del>, 41105-41109, 41111, 41116-41118, 41126, 41119, 41127, 41225, <del>41226</del>, <del>41230</del>, <del>41231</del>, <del>41228</del>, 41224, 41206, 41207, 41652-41656, <del>41662-41664</del>, 41203, 41215-41219, 41221-41223, 41211, 41229, 41204, 41212, 41971, 41975, 41976, 41972-41974, 41985, 41987, 41991, 41988, 41992, and 41986) must refile for all Generating Resource Bids for that Generating Resource and Trading Hour.</p>	

Market	Business Rule ID	Description	Comments
ALL 	41124	The Start-Up Cost Bid Curve specified in the generated Start-Up Bid Component for an Online Generating Resource State in a Generating Resource Bid must be the Default Start-Up Bid Curve for that Online Generating Resource State of the Generating Resource and Bid Period specified in that Bid if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period, and if either 1) the Default Start-Up Bid Curve Origin for the Default Start-Up Bid Curve is either "EX_ANTE" or "THRESHOLD", or 2) the Generating Resource is a Natural Gas Resource with a Manual Consult Flag of "YES" for that Bid Period. If the External Bid Status is not set to "M" (Modified) or "CM" (Conditionally Modified), set the External Bid Status to "MI" (Valid).	
ALL	41135	The Default Start-Up Bid Curve for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be the sum of the Proxy Start-Up Cost Curve for that Online Generating Resource State of that Generating Resource and Bid Period and the Start-Up Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period and is a Natural Gas Resource with a Manual Consult Flag of "YES" for that Bid Period.	Start-Up Cost capped by the Relative Proxy Start-Up Cost Ceiling plus the Start-Up Opportunity Cost.  Applies to resources that have had a gas price revision due to a manual consultation with the ISO.
ALL	41209	The Minimum Load Cost specified in the generated Minimum Load Cost Bid Component for an Online Generating Resource State of a Generating Resource Bid must be the Default Minimum Load Bid for that Online Generating Resource State of the Generating Resource and Bid Period specified in that Bid if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period, and if either 1) the Default Minimum Load Bid Origin for the Default Minimum Load Bid is either "EX_ANTE" or "THRESHOLD", or 2) the Generating Resource is a Natural Gas Resource with a Manual Consult Flag of "YES" for that Bid Period. If the External Bid Status is not set to "M" (Modified) or "CM" (Conditionally Modified), set the External Bid Status to "MI" (Valid).	
ALL	41231	The Default Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be the sum of the Proxy Minimum Load Cost for that Online Generating Resource State of that Generating Resource and Bid Period and the Minimum Load Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period and is a Natural Gas Resource with a Manual Consult Flag of "YES" for that Bid Period.	Minimum Load Cost capped by the Relative Proxy Minimum Load Cost Ceiling plus the Minimum Load Opportunity Cost.  Applies to resources that have had a gas price revision due to a manual consultation with the ISO.



# California ISO

ALL	41659	<p>The Reasonableness Threshold Start-Up Bid Curve for an Online Generating Resource State, whether startable or not, of a Generating Resource and Bid Period in a Generating Resource Bid must be derived as the sum of a) the Start-Up Energy Cost Curve, b) the Manual Consult Start-Up Fuel Cost Curve, c) the Greenhouse Gas Start-Up Cost Allowance Curve, d) the Major Maintenance Start-Up Cost Adder, e) the Grid Management Charge Start-Up Cost Adder, and f) the Start-Up Opportunity Cost, for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period and is a Natural Gas Resource with a Manual Consult Flag of "YES" and a Fuel Region Update Flag of "NO" for that Bid Period.</p>	<p>RLC: Greenhouse Gas Start-Up Cost Allowance Curve for Generating Resources by Online Generating Resource State (\$0/start by default). The curve breakpoints must be the same as the breakpoints of the Start-Up Energy Curve and the Start-Up Fuel Cost Curve or the Start-Up Fuel Curve for that Online Generating Resource State. RLC: Major Maintenance Start-Up Cost Adder for Generating Resources by Online Generating Resource State (\$0/start by default). Applies to resources that have had a gas price revision due to a manual consultation with the ISO, but a same day gas price update is not applicable.</p>
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ALL	41660	<p>The Reasonableness Threshold Start-Up Bid Curve for an Online Generating Resource State, whether startable or not, of a Generating Resource and Bid Period in a Generating Resource Bid must be derived as the greater of 1) the Relative Proxy Start-Up Cost Ceiling multiplied by the sum of a) the Start-Up Energy Cost Curve, b) the Start-Up Fuel Cost Curve, c) the Greenhouse Gas Start-Up Cost Allowance Curve, d) the Major Maintenance Start-Up Cost Adder, and e) the Grid Management Charge Start-Up Cost Adder, or 2) the sum of a) the Start-Up Energy Cost Curve, b) the Manual Consult Start-Up Fuel Cost Curve, c) the Greenhouse Gas Start-Up Cost Allowance Curve, d) the Major Maintenance Start-Up Cost Adder, and e) the Grid Management Charge Start-Up Cost Adder, plus the Start-Up Opportunity Cost, for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period and is a Natural Gas Resource with a Manual Consult Flag of "YES" and a Fuel Region Update Flag of "YES" for that Bid Period.</p>	<p>RLC: Greenhouse Gas Start-Up Cost Allowance Curve for Generating Resources by Online Generating Resource State (\$0/start by default). The curve breakpoints must be the same as the breakpoints of the Start-Up Energy Curve and the Start-Up Fuel Cost Curve or the Start-Up Fuel Curve for that Online Generating Resource State. RLC: Major Maintenance Start-Up Cost Adder for Generating Resources by Online Generating Resource State (\$0/start by default). Applies to resources that have had a gas price revision due to a manual consultation with the ISO, and a same day gas price update has been applied.</p>
ALL	41661	<p>The Manual Consult Start-Up Fuel Cost Curve used to derive the Reasonableness Threshold Start-Up Bid Curve for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be calculated as the product of the registered Start-Up Fuel Curve for that Online Generating Resource State and the registered Gas Price Index, for that Generating Resource and Bid Period, if that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" and as a Natural Gas Resource for that Bid Period.</p>	<p>MFR: Start-Up Fuel Curve (Start-Up Fuel (Btu) versus Cooling Time (min)) registry by online state and Reasonableness Threshold Commodity Price and Reasonableness Threshold Non-Commodity Price (\$/MMBtu) registry for Generating Resources registered as Natural Gas Resources with a Start-Up Cost Basis of "Proxy Cost".</p>



ALL	41662	<p>The Reasonableness Threshold Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be derived as the sum of a) the Manual Consult Minimum Load Fuel Cost, b) the product of the registered Operation and Maintenance Cost and the registered Minimum Load, c) the product of the Greenhouse Gas Minimum Load Cost Allowance and the registered Minimum Load, d) the Major Maintenance Minimum Load Cost Adder, e) the product of the Grid Management Charge Minimum Load Cost Rate and the registered Minimum Load, and f) the Minimum Load Opportunity Cost, for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period and is a Natural Gas Resource with a Manual Consult Flag of "YES" and a Fuel Region Update Flag of "NO" for that Bid Period.</p>	<p>MFR: Minimum Load Fuel Cost (\$/hr) and Operation and Maintenance Cost (\$/MWh) registry by online state for Generating Resources with a Minimum Load Cost Basis of "Proxy Cost". RLC: Greenhouse Gas Minimum Load Cost Allowance for Generating Resources by Online Generating Resource State (\$0/MWh by default). RLC: Major Maintenance Minimum Load Cost Adder for Generating Resources by Online Generating Resource State (\$0/h by default). RLC: Grid Management Charge Minimum Load Cost Rate (\$0/MWh by default). Applies to resources that have had a gas price revision due to a manual consultation with the ISO, but a same day gas price update is not applicable.</p>
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ALL	41663	<p>The Reasonableness Threshold Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be derived as the greater of 1) the Relative Proxy Minimum Load Cost Ceiling multiplied by the sum of a) the Minimum Load Fuel Cost, b) the product of the registered Operation and Maintenance Cost and the registered Minimum Load, c) the product of the Greenhouse Gas Minimum Load Cost Allowance and the registered Minimum Load, d) the Major Maintenance Minimum Load Cost Adder, and e) the product of the Grid Management Charge Minimum Load Cost Rate and the registered Minimum Load, and 2) the sum of a) the Manual Consult Minimum Load Fuel Cost, b) the product of the registered Operation and Maintenance Cost and the registered Minimum Load, c) the product of the Greenhouse Gas Minimum Load Cost Allowance and the registered Minimum Load, d) the Major Maintenance Minimum Load Cost Adder, and e) the product of the Grid Management Charge Minimum Load Cost Rate and the registered Minimum Load, plus the Minimum Load Opportunity Cost, for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period and is a Natural Gas Resource with a Manual Consult Flag of "YES" and a Fuel Region Update Flag of "YES" for that Bid Period.</p>	<p>MFR: Minimum Load Fuel Cost (\$/hr) and Operation and Maintenance Cost (\$/MWh) registry by online state for Generating Resources with a Minimum Load Cost Basis of "Proxy Cost". RLC: Greenhouse Gas Minimum Load Cost Allowance for Generating Resources by Online Generating Resource State (\$0/MWh by default). RLC: Major Maintenance Minimum Load Cost Adder for Generating Resources by Online Generating Resource State (\$0/h by default). RLC: Grid Management Charge Minimum Load Cost Rate (\$0/MWh by default). Applies to resources that have had a gas price revision due to a manual consultation with the ISO, and a same day gas price update has been applied.</p>
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ALL	41664	<p>The Manual Consult Minimum Load Fuel Cost used to derive the Reasonableness Threshold Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be calculated as the product of 1) the registered Average Heat Rate at the registered Minimum Load for that Online Generating Resource State of that Generating Resource and Bid Period, 2) that registered Minimum Load, and 3) the registered Gas Price Index for that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" and as a Natural Gas Resource for that Bid Period.</p>	<p>MFR: Average Heat Rate (Btu/kWh) registry by online state and Gas Price Index (\$/MMBtu) registry for Generating Resources with a Cost Basis of "Proxy Cost" registered as Natural Gas Resources (0 by default).  MFR: Minimum Load Run Hour Cost (\$/hr) registry by online state for Generating Resources with a Cost Basis of "Proxy Cost".</p>
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## BR 11.0.2

Modified rules are as follows:

Market	Business Rule ID	Description	Comments
DAM	71039	<p>If there is a DAM Clean Bid for a Generating Resource and the Active Day, and that Generating Resource is registered as an ELS <b>but not as an NPM Resource for that Active Day</b>, that DAM Clean Bid must become the Source Bid for that Generating Resource and each Trading Day after the Active Day in the Day-Ahead Market Horizon.</p>	<p>Active Day Clean Bid as Source Bid for ELS.  <b>MFR: NPM Resource registry.</b></p>
DAM	71001	<p>If there is no Source Bid for a Generating Resource and a Trading Day after the Active Day in the Day-Ahead Market Horizon, that Generating Resource is not registered as an ELS <b>nor as an NPM Resource for the Active Day</b>, the Bid Fill Option is "History", there is a DAM Clean Bid for that Generating Resource and the History Day for that Trading Day, and that History Day is not earlier than the Registry Start Date for that Generating Resource, that DAM Clean Bid must become the Source Bid for that Generating Resource and Trading Day.</p>	<p>History Day DAM Clean Bid as Source Bid with Bid Fill Option "History".  <b>MFR: NPM Resource registry.</b></p>



DAM	71002	If there is no Source Bid for a Generating Resource and a Trading Day after the Active Day in the Day-Ahead Market Horizon, that Generating Resource is not registered as an ELS <del>nor as an NPM Resource for the Active Day</del> , and there is a Market Accepted Bid for that Generating Resource and Trading Day, that Market Accepted Bid must become the Source Bid for that Generating Resource and Trading Day.	Market Accepted Bid as Source Bid for all Bid Fill Options by default. MFR: NPM Resource registry.
DAM	71003	If there is no Source Bid for a Generating Resource and a Trading Day after the Active Day in the Day-Ahead Market Horizon, that Generating Resource is not registered as an ELS <del>nor as an NPM Resource for the Active Day</del> , the Bid Fill Option is "Last", and there is a Market Accepted Bid for that Generating Resource in the Day-Ahead Market Horizon (including the DAM Clean Bid for the Active Day) for an earlier Trading Day, the latest such Market Accepted Bid must become the Source Bid for that Generating Resource and Trading Day.	Latest Market Accepted Bid as Source Bid with Bid Fill Option "Last". MFR: NPM Resource registry.

**BR 11.0.4**

Modified rules are as follows:

Market	Business Rule ID	Description	Comments
BS	38014	The Base Energy Schedule specified in a Base Schedule for a Generating Resource that is not registered as a MSG, PSH, or Pump for the Base Schedule Period specified in that Base Schedule must not be negative <del>or between zero and the registered Minimum Load for that Generating Resource and Base Schedule Period.</del>	No MSG, PSH, or Pump.
BS	38016	The Base Energy Schedule specified in a Base Schedule for a Generating Resource that is registered as a MSG for the Base Schedule Period specified in that Base Schedule must not be negative <del>or between zero and the registered Minimum Load for the Base Generating Resource State specified in that Base Schedule for that MSG and Base Schedule Period.</del>	MSG.



DAM	41926	<p>If there is no RUC Bid Component for a Trading Hour and an Online Generating Resource State of a Generating Resource in a Generating Resource Bid, the RA Flag and the Flexible RA Flag for that Generating Resource and Trading Hour are both "Yes", that Generating Resource is not registered as a MOO Resource <b>and not as a PDR and LSR</b> for that Trading Hour, a RUC Bid Component must be generated for that Online Generating Resource State and Trading Hour in that Bid with a RA RUC Obligation equal to the lower of a) the Upper Economic Limit of the Energy Bid Curve specified in the Energy Bid Component for that Online Generating Resource State and Trading Hour in that Bid, if any, or otherwise the Total Self-Schedule Quantity derived from all Self-Schedule Bid Components for that Online Generating Resource State and Trading Hour in that Bid, or b) the greater of the RA Capacity or the Flexible RA Capacity for that Generating Resource and Trading Hour.</p> <p>If the External Bid Status is not set to "M" (Modified) or "CM" (Conditionally Modified), set the External Bid Status to "MI" (Valid).</p>	<p>RUC Bid Component and RA RUC Obligation generation for non-MOO Resources; RA RUC Obligation is not biddable.  RA Flag Y  FRA Flag Y  MOO N</p> <p><b>Excludes PDR Long Start resource</b></p>
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**BR 11.0.4.1**

New rules are as follows:

ALL	31305	<p>There must not be an Energy Bid Component for a Trading Hour in a Generating Resource Bid if the Generating Resource specified in that Bid is registered as a member of a PSH Group with a PSH Group Schedule Direction Flag set to Yes and there is a Pumping Bid Component or a Self-Schedule Bid Component with a PT Pumping Self-Schedule for that Trading Hour in that Bid or a Market Accepted Bid for any other member of that PSH Group.</p>	<p>MFR: PSH Group containing two or more PSH Generating Resources. PSH Schedule Direction Flag associated with a PSH Group.</p>
ALL	31971	<p>There must not be a Pumping Bid Component for a Trading Hour in a Generating Resource Bid if the Generating Resource specified in that Bid is registered as a member of a PSH Group with a PSH Group Schedule Direction Flag set to Yes and there is an Energy Bid Component or a Self-Schedule Bid Component with Self-Schedules other than a PT Pumping Self-Schedule for that Trading Hour in that Bid or a Market Accepted Bid for any other member of that PSH Group.</p>	<p>MFR: PSH Group containing two or more PSH Generating Resources. PSH Schedule Direction Flag associated with a PSH Group.</p>

ALL	31419	There must not be a Self-Schedule Bid Component with Self-Schedules other than a PT Pumping Self-Schedule for a Trading Hour specified in a Generating Resource Bid if the Generating Resource specified in that Bid is registered as a member of a PSH Group with a PSH Group Schedule Direction Flag set to Yes and there is an Pumping Bid Component or a Self-Schedule Bid Component with a PT Pumping Self-Schedule for that Trading Hour in that Bid or a Market Accepted Bid for any other member of that PSH Group.	MFR: PSH Group containing two or more PSH Generating Resources. PSH Schedule Direction Flag associated with a PSH Group.
ALL	31420	There must not be a Self-Schedule Bid Component with a PT Pumping Self-Schedule for a Trading Hour specified in a Generating Resource Bid if the Generating Resource specified in that Bid is registered as a member of a PSH Group with a PSH Group Schedule Direction Flag set to Yes and there is an Energy Bid Component or a Self-Schedule Bid Component with Self-Schedules other than a PT Pumping Self-Schedule for that Trading Hour in that Bid or a Market Accepted Bid for any other member of that PSH Group.	MFR: PSH Group containing two or more PSH Generating Resources. PSH Schedule Direction Flag associated with a PSH Group.
BS	38063	There must not be a negative Base Energy Schedule for a Trading Hour in a Base Schedule for a Generating Resource if that Generating Resource is registered as a member of a PSH Group with a PSH Group Schedule Direction Flag set to Yes and there is a positive Base Energy Schedule or a Base Ancillary Service Schedule for a Valid or Modified Base Schedule for that Trading Hour for any other member of that PSH Group.	MFR: PSH Group containing two or more PSH Generating Resources. PSH Schedule Direction Flag associated with a PSH Group.
BS	38064	There must not be a positive Base Energy Schedule for a Trading Hour in a Base Schedule for a Generating Resource if that Generating Resource is registered as a member of a PSH Group with a PSH Group Schedule Direction Flag set to Yes and there is a negative Base Energy Schedule for a Valid or Modified Base Schedule for that Trading Hour for any other member of that PSH Group.	MFR: PSH Group containing two or more PSH Generating Resources. PSH Schedule Direction Flag associated with a PSH Group.
BS	38065	There must not be a Base Ancillary Service Schedule for a Trading Hour in a Base Schedule for a Generating Resource if that Generating Resource is registered as a member of a PSH Group with a PSH Group Schedule Direction Flag set to Yes and there is a negative Base Energy Schedule for a Valid or Modified Base Schedule for that Trading Hour for any other member of that PSH Group.	MFR: PSH Group containing two or more PSH Generating Resources. PSH Schedule Direction Flag associated with a PSH Group.

**BR 11.0.4.2**

New rules are as follows:

Market	Business Rule ID	Description	Comments
DAM	31006	The Scheduling Coordinator specified in a Generating Resource Bid for a Generating Resource that is registered as a NPM Resource for the Bid Period specified in that Bid must be the NPM Scheduling Coordinator authorized to submit Bids for that Generating Resource and Bid Period.	MFR: NPM SC authorization for NPM Generating Resources.
DAM	32007	The Scheduling Coordinator specified in a Non-Generating Resource Bid for a Non-Generating Resource that is registered as a NPM Resource for the Bid Period specified in that Bid must be the NPM Scheduling Coordinator authorized to submit Bids for that Generating Resource and Bid Period.	MFR: NPM SC authorization for NPM Generating Resources.
DAM	33002	The Scheduling Coordinator specified in a Registered Inter-Tie Resource Bid for a Registered Inter-Tie Resource that is registered as a NPM Resource for the Bid Period specified in that Bid must be the NPM Scheduling Coordinator authorized to submit Bids for that Generating Resource and Bid Period.	MFR: NPM SC authorization for NPM Generating Resources.
DAM	34004	The Scheduling Coordinator specified in a Non-Participating Load Resource Bid for a Non-Participating Load Resource that is registered as a NPM Resource for the Bid Period specified in that Bid must be the NPM Scheduling Coordinator authorized to submit Bids for that Generating Resource and Bid Period.	MFR: NPM SC authorization for NPM Generating Resources.

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**//////////////////////////////////// Baseline Release //////////////////////////////////////**

This set of Release Notes covers the changes going forward from the Business Rules Version 10.2.



## Fall 2020 Release Impacts

Business Rule changes within a release may force changes to the User Interfaces or Web Services depending on the requirement changes that are needed to support new or modified functionality within system applications. The following elements defined below give a quick overview of expected changes to the systems that interface with the Business Rules.

Application	Element	Change	Comment
<b>SIBR</b>	<i>SIBR UI</i>	<b>NO</b>	
	<i>SIBR Web Services</i>	<b>NO</b>	
	<i>SIBR Rules</i>	<b>YES</b>	<b>ESDER3B</b>
<b>BSAP</b>	<i>BSAP UI</i>	<b>YES</b>	<b>Manual Dispatch visibility</b>
	<i>BSAP Web Services</i>	<b>NO</b>	
	<i>BSAP Rules</i>	<b>NO</b>	
<b>RC-BSAP</b>	<i>RC-BSAP UI</i>	<b>NO</b>	
	<i>RC-BSAP Web Services</i>	<b>NO</b>	
	<i>RC-BSAP Rules</i>	<b>NO</b>	

Please visit the relevant user documentation on the Release Planning page for the updates to the documents associated to a specific Release.

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

SIBR User Guide – UI changes will be documented in this document.

SIBR Interface Specifications - all web service (wsdl, xsd, xml) changes will be documented in this document.

<https://developer.caiso.com>

BSAP User Guide – UI changes will be documented in this document.

Base Schedule Interface Specification Web Services - all web service (wsdl, xsd, xml) changes will be documented in this document. <https://developer.caiso.com>



RC-BSAP User Guide – UI changes will be documented in this document.

RC Base Schedule Interface Specification Web Services - all web service (wsdl, xsd, xml) changes will be documented in this document. <https://developer.caiso.com>

## **Business Rules Fall 2020 Release Projects (included Independent Projects)**

The **Fall 2020 Release** rules capture changes associated with the following projects targeted for implementation near October 2020 timeframe. The exception to this set of release notes is this is also capturing changes for current production prior to version 11 of the SIBR rules which is in production at this time.

### ESDER3b (Energy Storage and Distributed Energy Resource)

Phase 3B of the ESDER initiative focuses on two demand response enhancements:

1. Load shifting ability for PDRs
2. Sub-metering electric vehicles for market participation

### CCDEBE (Commitment Cost Default Energy Bid Enhancement)

Continued updates supporting policy initiative with estimated activation Fall/Winter 2020.

### DA-NPM (Day Ahead Nodal Pricing Market)

Nodal Pricing Model (NPM) that can be used to clear energy supply and demand bids for the PacifiCorp Balancing Authority Area (BAA) one day ahead.

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx> this set may also include updates to rule modifications not tied to a release.

The full set of the Business Rules promoted to Production can be seen under the SIBR user documentation under the Application Access/ in SIBR user documentation for all rules related to SIBR/BSAP/RC-BSAP.

<http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>

## Revision History for Rules: (post 10.2 includes 10.1.2 and 10.1.3 – 11.01)

Version 10.2.6 and below are in Production supported rules.

Version	Date	Changes	Reference
10.1.2	6/11/2019	Added 31606 and 32623 for Oper Ramp Rate last 2 segments the same.	CQ 10422
10.1.3	8/9/2019	Generalized RC and RC Entity terms, deleted RC BAA term, modified RC Resource, RC Inter-Tie, and RC Entity BSC terms, and added RC West term.	RC
10.1.3	8/9/2019	Modified 38059-38060; removed RC BAA.	RC
10.1.3	8/9/2019	Changed SC to BSC in 38039.	RC
10.2.1	9/6/2019	Modified 33226 to include Inter-Tie Generating Resources and Pseudo-Ties as eligible Supporting Resources for PT self-schedule exports.	CQ 10987
10.2.2	10/18/2019	Modified 41657 and 41657 to improve the processing rules for the Generating Resource Default Energy Bid Adjustment Component.	CCDEBE
10.2.3	10/31/2019	Modified 21017, 21018, 41132, 41134, 41226, 41228, 41352, 41649, 41650, 41655-41658, and 51022 to clarify how the origin data is labeled.	CCDEBE
10.2.4	11/15/2019	Modified 41649, 41655, and 41657 to clarify how the origin data is labeled.	CCDEBE
10.2.4	11/15/2019	Added 10075 to allow for a date driven parameter.	CCDEBE
10.2.4	11/15/2019	Modified 41227 and 41318 to allow functionality to be date driven.	CCDEBE
10.2.4	11/15/2019	Restored 41319 and 41320 to provide processing rules prior to the CCDEBE effective date.	CCDEBE
10.2.4	11/15/2019	Restored and modified 41322 to provide processing rules prior to the CCDEBE effective date.	CCDEBE
10.2.4	11/15/2019	Added 41230 and 41353 to provide processing rules prior to the CCDEBE effective date.	CCDEBE
10.2.5	1/28/2020	Modified 10060-10062 to change the cost ceiling parameters, per regulatory order.	CCDEBE
10.2.6	3/3/2020	Added 41977 to fill in missing State Transition Definitions on State Transition Bid Component of submitted Bids.	CQ 12450
10.3	11/1/2019	Added term for PDR-LSR Consumption Resource	ESDER 3B
10.3	11/1/2019	Added 32310 to include a rule for validating energy bids for PDR-LSR Consumption Resources	ESDER 3B
11.0	5/1/2020	Incorporated changes from 10.2.4-10.2.6	



11.0	5/1/2020	Added terms Nodal Pricing Market, NPM Scheduling Coordinator	NPM
11.0	5/1/2020	Modified 20005 to reference Nodal Pricing Market	NPM
11.0	5/1/2020	Added 20015, 20016, 21019, 21427, 21525, 21955, 22006, 23021, 23025, 23211, 23602, 24009, and 24211 to specify bid content rules for the Nodal Pricing Model Market	NPM
11.0	5/1/2020	Modified 20003, 20020, 21418, 21519, 21954, 23210, 23604, 30008-30011, 30013, 31003, 31645, 31657, 31660, 31942, 31944, 32003, 33004, 33019, 33623, 33625, 40006, 43009, 43010, 50007, 61012, 61034, 63010, 63011, and 63039 to clarify that they apply only to the DAM and RTM.	NPM
11.0	5/1/2020	Modified 31002 to clarify that the same resource may be certified for both NPM and real-time (in EIM) participation.	NPM
11.0	5/1/2020	Added 30004-30007, 30012, 31005, 31650, 31667, 31668, 31949, 31950, 32006, 33005, 33028, 33629, 33630, and 34003 to specify bid validation rules for the Nodal Pricing Market.	NPM
11.0	5/1/2020	Added 40008, 43015, and 43016 to specify bid processing rules for the Nodal Pricing Market.	NPM
11.0	5/1/2020	Added 50005 and 53006 to specify bid generation and final processing rules for the Nodal Pricing Market.	NPM
11.0	5/1/2020	Added 61013, 61014, 61042-61044, 63012, 63013, 63016, and 63043 to specify bid special processing rules for the Nodal Pricing Market.	NPM
11.0.1	5/12/2020	Restored 20005 to pre-11.0 version	NPM

### Revision of Terms for Fall 2020 Release:

Name	Acronym	Definition
PDR-LSR Consumption Resource		A consumption resource which is part of a pair of resources modeled for purposes of load shifting. The resource is <b>modeled as a DDR (NGR)</b> in the CAISO market systems.
Nodal Pricing Market	NPM	A market run in parallel with the Day Ahead Market, providing advisory results for entities which are not participating in the Day Ahead Market.
NPM Resource		A resource which participates in the Nodal Pricing Market.
NPM Scheduling Coordinator	NPM SC	A market participant authorized by the ISO to submit Bids for the Nodal Pricing Market. It is possible that the same resource has associated with it both a Scheduling Coordinator (for the Real-Time Market) and a NPM Scheduling Coordinator.



**Business Rules Impacted – Fall 2020 Release:**

Rule changes for the Version 11. x are located below. Modified Text in red, new rules will be all red. Comments section will contain highlight for ESDER3b.



**SIBR Business Rules 10.2-11.01 are as follows:**

Modified rules:

Note: For version 11 rules 20003, 20020, 21418, 21519, 21954, 23210, 23604, 30008-30011, 30013, 31003, 31645, 31657, 31660, 31942, 31944, 32003, 33004, 33019, 33623, 33625, 40006, 43009, 43010, 50007, 61012, 61034, 63010, 63011, and 63039, rule content does not change. Market changes from 'ALL' to 'DAM\_RTM'

Market	Business Rule ID	Description	Comments
ALL	33226	The <b>Supporting Resource</b> specified in an Export Resource PT Self-Schedule Bid Component must be a registered Generating Resource, <b>or an Inter-Tie Generating Resource and a Pseudo-Tie</b> , for the Bid Period specified in the Bid.	The <b>Supporting Resource</b> specified in an Export Resource PT Self-Schedule Bid Component must be a registered Generating Resource, <b>or an Inter-Tie Generating Resource that is Pseudo-Tie</b> , for the Bid Period specified in the Bid.
ALL	41227	The Default Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be the lower of 1) the product of the Relative Proxy Minimum Load Cost Ceiling and the Proxy Minimum Load Cost for that Online Generating Resource State of that Generating Resource and Bid Period, plus the Minimum Load Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, or 2) the product of the Energy Bid Ceiling and the higher of the Minimum Load Cap Denominator and the registered Minimum Load for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period <b>and the Bid Period is on or after the CCDEBE Effective Date.</b>	Minimum Load Cost capped by the Relative Proxy Minimum Load Cost Ceiling plus the Minimum Load Opportunity Cost.

ALL	41318	<p>The Energy Bid Curve of a generated Energy Bid Component, or the Energy Bid Curve extension of an Energy Bid Component, for a Trading Hour and an Online Generating Resource State in a Generating Resource Bid for a Generating Resource that is not registered as a COG for that Trading Hour, must be the Default Energy Bid for that Trading Hour and Online Generating Resource State of that Generating Resource, <b>if that Trading Hour is on or after the CCDEBE Effective Date.</b></p>	
ALL	41319	<p>The Incremental Fuel Cost Curve used to derive the Energy Bid Curve of a generated Energy Bid Component, or the Energy Bid Curve extension of an Energy Bid Component, for a Trading Hour and an Online Generating Resource State in a Generating Resource Bid, must be calculated as the product of the Incremental Heat Rate Curve of the Generating Resource specified in that Bid for that Online Generating Resource State and Trading Hour, and the registered Gas Price Index (\$/MMBtu) for that Generating Resource and Trading Hour, if that Generating Resource is registered as a Natural Gas Resource for that Trading Hour. The Incremental Heat Rate Curve must be a staircase curve of Incremental Heat Rate (Btu/kWh) versus Operating Level (MW). The Incremental Heat Rate of the Incremental Heat Rate Curve segment between two Operating Levels must be calculated as the ratio of the difference between the product of the registered Average Heat Rate at the higher Operating Level times that Operating Level, minus the product of the registered Average Heat Rate at the lower Operating Level times that Operating Level, over the difference between the higher Operating Level and the lower Operating Level.</p>	

ALL	41320	<p>The Incremental Fuel Cost Curve used to derive the Energy Bid Curve of a generated Energy Bid Component, or the Energy Bid Curve extension of an Energy Bid Component, for a Trading Hour and an Online Generating Resource State in a Generating Resource Bid, must be calculated from the registered Average Fuel Costs (\$/kWh) of the Generating Resource specified in that Bid for that Online Generating Resource State and Trading Hour, if that Generating Resource is not registered as a Natural Gas Resource for that Trading Hour. The Incremental Fuel Cost Curve must be a staircase curve of Incremental Fuel Cost (\$/kWh) versus Operating Level (MW). The Incremental Fuel Cost of the Incremental Fuel Cost Curve segment between two Operating Levels must be calculated as the ratio of the difference between the product of the registered Average Fuel Cost at the higher Operating Level times that Operating Level, minus the product of the registered Average Fuel Cost at the lower Operating Level times that Operating Level, over the difference between the higher Operating Level and the lower Operating Level.</p>	
ALL	41322	<p>The Energy Bid Curve of a generated Energy Bid Component, for a Trading Hour and an Online Generating Resource State in a Generating Resource Bid for a Generating Resource, must be a single segment set equal to the Energy Bid Ceiling, if that Generating Resource is not registered as a Natural Gas Resource for that Trading Hour, and a registered Average Fuel Cost (\$/kWh) does not exist for the Generating Resource specified in that Bid for that Online Generating Resource State and Trading Hour, <b>and that Trading Hour is prior to the CCDEBE Effective Date.</b></p>	<p>ODCP: proxy cost when data for constructing a generated bid does not otherwise exist.</p>
ALL	41649	<p>If there is a Default Start-Up Bid Adjustment Component for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid, a Start-Up Cost of the Start-Up Cost Curve specified in that Default Start-Up Bid Component is not greater than the corresponding Start-Up Cost of the Reasonableness Threshold Start-Up Bid Curve for that Online Generating Resource State of that Generating Resource and Bid Period, and that Generating Resource is registered with a Start-Up Cost Basis of "Proxy Cost" for that Bid Period, the corresponding Start-Up Cost of the Default Start-Up Bid Curve for that Online Generating Resource State of that Generating Resource and Bid Period must be replaced with that Start-Up Cost from that Default Start-Up Bid Adjustment</p>	<p>Ex-ante adjustment validation. Replace a proxy startup segment with the requested value if that segment is not greater than the reasonableness threshold value.</p>

		Component and the Default Start-Up Bid Curve Origin for that Online Generating Resource State of that Generating Resource and Bid Period must be set to "EX_ANTE".	
ALL	41655	If there is a Default Minimum Load Bid Adjustment Component for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid, the Minimum Load Cost specified in that Bid Component is not greater than the Reasonableness Threshold Minimum Load Bid for that Online Generating Resource State of that Generating Resource and Bid Period, and that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period, the Default Minimum Load Bid for that Online Generating Resource State of that Generating Resource and Bid Period must be replaced with the Minimum Load Cost specified in that Default Minimum Load Bid Adjustment Component and the Default Minimum Load Bid Origin for that Online Generating Resource State of that Generating Resource and Bid Period must be set to "EX_ANTE".	Ex-ante adjustment validation. Replace the proxy minimum load cost with the requested value if the requested value is not greater than the reasonableness threshold value.

ALL	41657	If there is a Default Energy Bid Adjustment Component for an Online Generating Resource State of a Generating Resource and Trading Hour in a Generating Resource Bid and the Energy Bid Price of an Energy Bid Segment of the Energy Bid Curve specified in that Default Energy Bid Adjustment Component is not greater than the Energy Bid Price of any of the Energy Bid Segments of the Reasonableness Threshold Default Energy Bid Curve for that Online Generating Resource State of that Generating Resource and Trading Hour that overlap with that Energy Bid Segment of that Energy Bid Curve, the Energy Bid Price of the corresponding Energy Bid Segment of the Default Energy Bid for that Online Generating Resource State of that Generating Resource and Trading Hour must be replaced with that Energy Bid Price of that Energy Bid Segment specified in that Default Energy Bid Adjustment Component and the Default Energy Bid Origin for that Online Generating Resource State of that Generating Resource and Trading Hour must be set to "EX_ANTE".	ECIC: Reasonableness Threshold Default Energy Bid.
ALL	41977	If there is no State Transition Definition in a specified State Transition Bid Component of a Generating Resource Bid for a registered State Transition Definition of the Generating Resource and Bid Period specified in that Bid, <b>a State Transition Definition must be generated in that State Transition Bid Component with the Initial and Final Online Generating Resource States for that registered State Transition.</b>	MSG only.
ALL	20005	The Market Type of a Bid must be one of the following: a) Day-Ahead Market ("DAM"), <b>b) Nodal Pricing Market, or c) Real-Time Market ("RTM").</b>	
ALL	31002	The Generating Resource specified in a Generating Resource Bid must be certified for participation in the Market indicated by the Market Type and for the Bid Period specified in the Bid.	MFR: Generating Resource certification for Market participation. EIMNPR must not be certified for any Market participation. EIMPR must be certified for RTM participation only. <b>Resource certified for NPM may also be certified in the RTM as</b>

			either a EIMNPR or EIMPR.
DAM	71001	If there is no Source Bid for a Generating Resource and a Trading Day after the Active Day in the Day-Ahead Market Horizon, that Generating Resource is not registered as an ELS <b>nor as an NPM Resource for the Active Day</b> , the Bid Fill Option is "History", there is a DAM Clean Bid for that Generating Resource and the History Day for that Trading Day, and that History Day is not earlier than the Registry Start Date for that Generating Resource, that DAM Clean Bid must become the Source Bid for that Generating Resource and Trading Day.	History Day DAM Clean Bid as Source Bid with Bid Fill Option "History". <b>MFR: NPM Resource registry.</b>
DAM	71002	If there is no Source Bid for a Generating Resource and a Trading Day after the Active Day in the Day-Ahead Market Horizon, that Generating Resource is not registered as an ELS <b>nor as an NPM Resource for the Active Day</b> , and there is a Market Accepted Bid for that Generating Resource and Trading Day, that Market Accepted Bid must become the Source Bid for that Generating Resource and Trading Day.	Market Accepted Bid as Source Bid for all Bid Fill Options by default. <b>MFR: NPM Resource registry.</b>
DAM	71003	If there is no Source Bid for a Generating Resource and a Trading Day after the Active Day in the Day-Ahead Market Horizon, that Generating Resource is not registered as an ELS <b>nor as an NPM Resource for the Active Day</b> , the Bid Fill Option is "Last", and there is a Market Accepted Bid for that Generating Resource in the Day-Ahead Market Horizon (including the DAM Clean Bid for the Active Day) for an earlier Trading Day, the latest such Market Accepted Bid must become the Source Bid for that Generating Resource and Trading Day.	Latest Market Accepted Bid as Source Bid with Bid Fill Option "Last". <b>MFR: NPM Resource registry.</b>

Deleted Rules: None

Market	Business Rule ID	Description	Comments

Added Rules:

Market	Business Rule ID	Description	Comments
RTM	10075	The configurable CCDEBE Effective Date must be initialized activation date.	
ALL	41230	The Default Minimum Load Bid for an Online Generating Resource State of a Generating Resource and Bid Period in a Generating Resource Bid must be the product of the Relative Proxy Minimum Load Cost Ceiling and the Proxy Minimum Load Cost for that Online Generating Resource State of that Generating Resource and Bid Period, plus the Minimum Load Opportunity Cost for that Online Generating Resource State of that Generating Resource and Bid Period, if that Generating Resource is registered with a Minimum Load Cost Basis of "Proxy Cost" for that Bid Period and the Bid Period is prior to the CCDEBE Effective Date.	Minimum Load Cost capped by the Relative Proxy Minimum Load Cost Ceiling plus the Minimum Load Opportunity Cost.
ALL	41353	The Energy Bid Curve of a generated Energy Bid Component, or the Energy Bid Curve extension of an Energy Bid Component, for a Trading Hour and an Online Generating Resource State in a Generating Resource Bid for a Generating Resource that is not registered as a COG for that Trading Hour, must be calculated as the lower of a) the sum of i) the Incremental Fuel Cost Curve, ii) the registered Operation and Maintenance Cost (\$/MWh), iii) the registered Greenhouse Gas Energy Cost Allowance Curve, iv) the Grid Management Charge Energy Cost Rate, and v) the Energy Opportunity Cost, for that Online Generating Resource State of that Generating Resource and Trading Hour, or b) the Energy Price Ceiling, if that Trading Hour is prior to the CCDEBE Effective Date.	

ALL	32310	All Energy Bid Prices of the Energy Bid Curve specified in an Energy Bid Component in a Non-Generator Resource Bid for a Non-Generator Resource that is also a PDR-LSR Consumption Resource must not be positive.	MFR: PDR-LSR Consumption Resource
NPM	20015	An NPM Scheduling Coordinator must be specified in the Bid Identification of a Bid.	
NPM	20016	The NPM Scheduling Coordinator specified in a Bid must be notified of the status of that Bid and of any failed Bid Content rules after Bid Content.	
NPM	21019	A Generating Resource Bid may include the following: 1) at most one Start-Up Bid Component for each registered Online Generating Resource State of the Generating Resource and Bid Period specified in that Bid; 2) at most one Minimum Load Cost Bid Component for each registered Online Generating Resource State; 3) at most one Energy Bid Component for each registered Online Generating Resource State and each Trading Hour in that Bid Period; 4) at most one Self-Schedule Bid Component for each Trading Hour in that Bid Period; 5) at most one Ancillary Service Bid Component for each registered Online Generating Resource State and each Trading Hour in that Bid Period; 6) at most one Ramp Rate Bid Component for each registered Online Generating Resource State; 7) at most one Energy Limit Bid Component; 8) at most one Distribution Bid Component for each Trading Hour in that Bid Period; 9) at most one Wheeling Bid Component for each Trading Hour in that Bid Period, if and only if that Generating Resource is registered as an Inter-Tie Generating Resource for that Bid Period; 10) at most one Pumping Bid Component for each Trading Hour in that Bid Period, if and only if that Generating Resource is registered as a Pumped Storage Hydro Unit or a Pump for that Bid Period; 11) at most one State Transition Bid Component, if and only if that Generating Resource is registered as a MSG for that Bid Period; 12) at most one Miscellaneous Bid Component for each Trading Hour in that Bid Period; 13) at most one Default Start-Up Bid Adjustment Component for each registered Online Generating Resource State, if and only if that Generating Resource is not registered with a Start-Up Cost Basis of "Registered Cost" for that Bid Period; 14) at most one Default Minimum Load Bid Adjustment Component for each registered Online Generating Resource State, if and only if that Generating Resource is not registered with a Minimum Load Cost Basis of "Registered Cost" for that Bid Period; and 15) at most one Default Energy Bid Adjustment Component for each registered Online Generating Resource State and each Trading Hour in that Bid Period, if and	MFR: Pseudo-Tie registry for Generating Resources. MSG registry for Generating Resources; MSG must not be COG, Pump, LFR, or Pseudo-Tie. ECIC: Calculated Energy Bid Origin for every Generating Resource.

		only if the Calculated Energy Bid Origin for that Online Generating Resource State of that Generating Resource and Trading Hour is not set to "HYDRO_BASED".	
NPM	21427	A Generating Resource Self-Schedule Bid Component must specify at least one of the following: 1) at most one Price-Taker (PT) Self-Schedule Bid Component for each Trading Hour in the Bid Period specified in the Bid; and 2) at most one PT Pumping Self-Schedule Bid Component for each Trading Hour in the Bid Period specified in the Bid, if the Generating Resource specified in the Bid is registered as a Pumped-Storage Hydro Unit or a Pump for the Bid Period specified in the Bid.	Children Self-Schedule Bid Components inherit the online state of the parent Self-Schedule Bid Component.
NPM	21525	A Generating Resource Ancillary Service Bid Component must specify at least one of the following: 1) at most one Regulation Down Self-Provision Bid Component; 2) at most one Regulation Up Self-Provision Bid Component; 3) at most one Spinning Reserve Self-Provision Bid Component; and 4) at most one Non-Spinning Reserve Self-Provision Bid Component.	Children Ancillary Service Bid Components inherit the online state of the parent Ancillary Service Bid Component.
NPM	21955	An Inter-Tie Generating Resource Wheeling Bid Component must specify the counter Wheeling Resource, if it is a Registered Inter-Tie Resource, or if the counter Wheeling Resource is an Inter-Tie Transaction, all of its following attributes: 1) the NPM Scheduling Coordinator; 2) the Inter-Tie Scheduling Point; 3) the Primary Inter-Tie; and 4) the PSE.	TGs only.
NPM	22006	A Non-Generator Resource Bid may include the following: 1) at most one Energy Bid Component for each Trading Hour in the Bid Period specified in that Bid; 2) at most one Self-Schedule Bid Component for each Trading Hour in that Bid Period; 3) at most one Ramp Rate Bid Component; 4) at most one Energy Limit Bid Component, if and only if the Non-Generator Resource specified in that Bid is registered as a LESR for that Bid Period; 5) at most one Distribution Bid Component for each Trading Hour in that Bid Period; 6) at most one Miscellaneous Bid Component for each Trading Hour in that Bid Period; and 7) at most one Initial State of Charge Bid Component.	MFR: LESR registry.
NPM	23021	An Inter-Tie Resource Bid for a Registered Inter-Tie Resource may include the following: 1) at most one Self-Schedule Bid Component for each Trading Hour in that Bid Period; 2) at most one Wheeling Bid Component for each Trading Hour in that Bid Period; and 3) at most one Miscellaneous Bid Component for each Trading Hour in that Bid Period.	
NPM	23025	An Inter-Tie Resource Bid for an Inter-Tie Transaction may include the following: 1) at most one Self-Schedule Bid Component for each Trading Hour in that Bid Period; 3) at most one Wheeling Bid Component for each Trading Hour in that Bid Period; and 4) at most one Miscellaneous Bid Component for each Trading Hour in that Bid Period.	

NPM	23211	An Inter-Tie Resource Self-Schedule Bid Component must specify at most one Price-Taker (PT) Self-Schedule Bid Component for each Trading Hour in the Bid Period specified in the Bid.	
NPM	23602	An Inter-Tie Resource Wheeling Bid Component must specify the counter Wheeling Resource, if it is a Registered Inter-Tie Resource, or if the counter Wheeling Resource is an Inter-Tie Transaction, all of its following attributes: 1) the NPM Scheduling Coordinator; 2) the Inter-Tie Scheduling Point; 3) the Primary Inter-Tie; and 4) the PSE.	
NPM	24009	A Non-Participating Load Resource Bid must include a Self-Schedule Bid Component for each Trading Hour in the Bid Period specified in the Bid.	
NPM	24211	A Non-Participating Load Resource Self-Schedule Bid Component must specify one Price-Taker (PT) Self-Schedule Bid Component for each Trading Hour in the Bid Period specified in the Bid.	
NPM	30004	The NPM Scheduling Coordinator specified in a Bid must be registered for the Bid Period specified in that Bid.	Master File Requirement (MFR): NPM SC registry.
NPM	30005	The NPM Scheduling Coordinator of a Bid must be active for the Bid Period specified in the Bid.	MFR: NPM SC activity status.
NPM	30006	The NPM Scheduling Coordinator specified in a Bid must be notified of the status of that Bid and of any failed Bid Validation rules after Bid Validation.	
NPM	30007	A Conditionally Valid Bid, a Conditionally Modified Bid, a Valid Bid, or a Modified Bid with the same NPM Scheduling Coordinator, Market Type, Resource, Inter-Tie, if any, and Bid Period, with an earlier Conditionally Valid Bid, Conditionally Modified Bid, Valid Bid, or Modified Bid, if any, must make the earlier Bid Obsolete.	Bid obsolescence.
NPM	30012	A Conditionally Valid Bid, a Conditionally Modified Bid, a Valid Bid, or a Modified Bid may be canceled by the NPM Scheduling Coordinator that submitted that Bid any time before the Market Close Time for the Trading Day specified in that Bid.	Bid canceling.
NPM	31005	The NPM Scheduling Coordinator specified in a Generating Resource Bid must be authorized to submit Bids for the Generating Resource and the Bid Period specified in the Bid.	MFR: NPM SC authorization for Generating Resources for the NPM.



NPM	31949	If the counter Wheeling Resource specified in a Wheeling Bid Component for a Trading Hour in an Inter-Tie Generating Resource Bid is an Inter-Tie Transaction, the NPM Scheduling Coordinator specified in that Inter-Tie Transaction must be registered for that Trading Hour.	TG only.
NPM	31950	If the counter Wheeling Resource specified in a Wheeling Bid Component for a Trading Hour in an Inter-Tie Generating Resource Bid is an Inter-Tie Transaction, the Inter-Tie Scheduling Point of that Inter-Tie Transaction must be among the allowable Inter-Tie Scheduling Points registered for the NPM Scheduling Coordinator of that Inter-Tie Transaction for that Trading Hour.	TG only.
NPM	31650	If there is a Default Start-Up Bid Adjustment Component in a Generating Resource Bid, the NPM Scheduling Coordinator specified in that Bid must be eligible to submit Default Bid Adjustment Components for the Generating Resource and Bid Period specified in that Bid.	MFR: NPM SC eligibility for Default Bid Adjustment.
NPM	31667	If there is a Default Minimum Load Bid Adjustment Component in a Generating Resource Bid, the NPM Scheduling Coordinator specified in a that Bid must be eligible to submit Default Bid Adjustment Components for the Generating Resource and Bid Period specified in that Bid.	MFR: NPM SC eligibility for Default Bid Adjustment.
NPM	31668	If there is a Default Energy Bid Adjustment Component in a Generating Resource Bid, the NPM Scheduling Coordinator specified in that Bid must be eligible to submit Default Bid Adjustment Components for the Generating Resource and the Bid Period specified in that Bid.	MFR: NPM SC eligibility for Default Bid Adjustment.
NPM	32006	The NPM Scheduling Coordinator specified in a Non-Generator Resource Bid must be authorized to submit Bids for the Non-Generator Resource and the Bid Period specified in that Bid.	MFR: NPM SC authorization for NGR.
NPM	33005	The NPM Scheduling Coordinator specified in an Inter-Tie Resource Bid for a Registered Inter-Tie Resource must be authorized to submit Bids for the Inter-Tie Resource and the Bid Period specified in the Bid.	MFR: NPM SC authorization for Generating Resources for the Nodal Pricing Model Market.
NPM	33028	The Inter-Tie Scheduling Point of the Inter-Tie Transaction specified in an Inter-Tie Resource Bid must be among the allowable Inter-Tie Scheduling Points registered for the NPM Scheduling Coordinator of that Inter-Tie Transaction for the Bid Period specified in that Bid.	MFR: NPM Scheduling Coordinator one-to-many association with Inter-Tie Scheduling Points.
NPM	33629	If the counter Wheeling Resource specified in a Wheeling Bid Component for a Trading Hour in an Inter-Tie Resource Bid is an Inter-Tie Transaction, the NPM	

		Scheduling Coordinator specified in that Inter-Tie Transaction must be registered for that Trading Hour.	
NPM	33630	If the counter Wheeling Resource specified in a Wheeling Bid Component for a Trading Hour in an Inter-Tie Resource Bid is an Inter-Tie Transaction, the Inter-Tie Scheduling Point of that Inter-Tie Transaction must be among the allowable Inter-Tie Scheduling Points registered for the NPM Scheduling Coordinator of that Inter-Tie Transaction for that Trading Hour.	
NPM	34003	The NPM Scheduling Coordinator specified in a Non-Participating Load Resource Bid must be authorized to submit bids for the Non-Participating Load Resource and the Bid Period specified in the Bid.	MFR: NPM SC authorization for Non-Participating Load Resources.
NPM	40008	The NPM Scheduling Coordinator specified in a Bid must be notified of the status of that Bid and of any failed Bid Processing rules after Bid Processing.	Physical Resource Bids only.
NPM	43015	If the Resource specified in an Inter-Tie Resource Bid is an Inter-Tie Transaction, the system must generate an Inter-Tie Transaction Identification for this Resource by concatenating through hyphens ("-") the following attributes: 1) the NPM Scheduling Coordinator specified in that Bid; 2) the Inter-Tie Scheduling Point of that Inter-Tie Transaction; 3) the Primary Inter-Tie of that Inter-Tie Transaction; 4) "I" if that Inter-Tie Transaction is an Import Resource or "E" if it is an Export Resource; 5) "P" to indicate a physical Inter-Tie Transaction; 6) the Energy Type of that Inter-Tie Transaction; and 7) the PSE of that Inter-Tie Transaction.	Inter-Tie Transaction Identification generation.
NPM	43016	The NPM Scheduling Coordinator specified in an Inter-Tie Resource Bid for an Inter-Tie Transaction must be notified of the Inter-Tie Transaction Identification of that Inter-Tie Transaction.	
NPM	50005	The NPM Scheduling Coordinator specified in a Bid must be notified of the status of that Bid and of any failed Bid Processing rules after Bid Final Processing.	Physical Resource Bids only.
NPM	53006	If there is a Wheeling Bid Component in an Inter-Tie Resource Bid for a Trading Hour in the Active Day and the Balance Indicator for that Wheeling Bid Component is "No," any Energy, Self-Schedule, and Wheeling Bid Components for that Trading Hour must be erased from that Bid.	
NPM	61013	If there is a Wheeling Bid Component for a Trading Hour in a Generating Resource Bid for an Inter-Tie Generating Resource and there is an Export Resource Bid for the counter Wheeling Resource specified in that Wheeling Bid Component with a Wheeling Bid Component for that Trading Hour that specifies that Inter-Tie Generating Resource as a counter Wheeling Resource, the Balance Indicators for both Wheeling Bid Components in these Bid must be set to "Yes" and both NPM Scheduling Coordinators specified in these Bids must be notified that the Wheeling Transaction is matched for that Trading Hour; otherwise, the Balance Indicator for that Wheeling Bid	Wheeling Transaction matching. TG only.

		Component in that Inter-Tie Generating Resource Bid must be set to "No" and the NPM Scheduling Coordinator specified in that Bid must be notified that the Wheeling Transaction is not matched for that Trading Hour.	
NPM	61014	If the Balance Indicator for a Wheeling Bid Component in an Inter-Tie Generating Resource Bid is set to "No," the NPM Scheduling Coordinator specified in that Bid must be notified that that Wheeling Bid Component will be erased from that Bid after the Market Close Time for the Trading Day specified in that Bid.	Wheeling Bid Component removal notification. TG only.
NPM	61044	If an Inter-Tie Generating Resource Bid with a Wheeling Bid Component for a Trading Hour is made obsolete or canceled, the Special Bid Processing rules for Wheeling Transactions (61013 and 63012-63013) must re-fire for the Wheeling Bid Component for that Trading Hour in the Bid from the counter Wheeling Resource specified in that first Wheeling Bid Component.	This is required for obsolete bids in case where the counter Wheeling Resource is changed, or the Wheeling Bid Component is removed. TG only.
NPM	61042	If there is a change to the Day-Ahead registered Gas Price Index for a Generating Resource and Trading Day or to the Day-Ahead registered Reasonableness Threshold Gas Price Index for a Generating Resource and Trading Day, the Bid Processing rules for gas prices, commitment cost and commitment cost adjustment (41013, 41014, 41131-41134, 41129, 41121-41123, 41130, 41645-41650, 41105, 41118, 41126, 41119, 41127, 41225-21228, 41224, 41206, 41207, 41652-41656, 41203, 41215, 41211, 41204, 41212, 41972-41974, 41985, 41987, 41988, and 41986) must re-fire for all Generating Resource Bids for that Generating Resource and Trading Day.	
NPM	61043	If there is a change to the Day-Ahead Calculated Energy Bid for a Generating Resource and Trading Day, the Bid Processing rules for energy bid and default energy bid adjustment (41323, 41324, 41657, 41658, 41318, 41339, 41346, 41350, 41340, 41347, 41348, 41325, and 41321) must re-fire for all Generating Resource Bids for that Generating Resource and Trading Day.	
NPM	63012	If there is a Wheeling Bid Component for a Trading Hour in an Import Resource Bid for an Import Resource and there is an Export Resource Bid for the counter Wheeling Resource specified in that Wheeling Bid Component with a Wheeling Bid Component for that Trading Hour that specifies that Import Resource as a counter Wheeling Resource, the Balance Indicators for both Wheeling Bid Components in these Bid must be set to "Yes" and both NPM Scheduling Coordinators specified in these Bids must be notified that the Wheeling Transaction is matched for that Trading Hour; otherwise, the Balance Indicator for that Wheeling Bid Component in that Import Resource Bid must be set to "No" and the NPM Scheduling Coordinator specified in that Bid must be notified that the Wheeling Transaction is not matched for that Trading Hour.	Wheeling Transaction matching. Import Resource.



NPM	63013	If there is a Wheeling Bid Component for a Trading Hour in an Export Resource Bid for an Export Resource and there is an Import Resource Bid or an Inter-Tie Generating Resource Bid for the counter Wheeling Resource specified in that Wheeling Bid Component with a Wheeling Bid Component for that Trading Hour that specifies that Export Resource as a counter Wheeling Resource, the Balance Indicators for both Wheeling Bid Components in these Bid must be set to "Yes" and both NPM Scheduling Coordinators specified in these Bids must be notified that the Wheeling Transaction is matched for that Trading Hour; otherwise, the Balance Indicator for that Wheeling Bid Component in that Export Resource Bid must be set to "No" and the NPM Scheduling Coordinator specified in that Bid must be notified that the Wheeling Transaction is not matched for that Trading Hour.	Wheeling Transaction matching. Export Resource.
NPM	63016	If the Balance Indicator for a Wheeling Bid Component in an Inter-Tie Resource Bid is set to "No," the NPM Scheduling Coordinator specified in that Bid must be notified that any Energy, Self-Schedule, and Wheeling Bid Components for that Trading Hour will be erased from that Bid after the Market Close Time for the Trading Day specified in that Bid.	Wheeling Bid Component removal notification.
NPM	63043	If an Inter-Tie Resource Bid with a Wheeling Bid Component for a Trading Hour is made obsolete or canceled, the Special Bid Processing rules for Wheeling Transactions (61013 and 63012-63013) must re-fire for the Wheeling Bid Component for that Trading Hour in the Bid from the counter Wheeling Resource specified in that first Wheeling Bid Component.	This is required for obsolete bids in case where the counter Wheeling Resource is changed, or the Wheeling Bid Component is removed.

The full set of the Business Rules can be seen under SIBR user documentation under the Application Access/ in SIBR user documentation for all rules related to SIBR/BSAP/RC-BSAP.

<http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>

END Document