

Business Requirements Specification

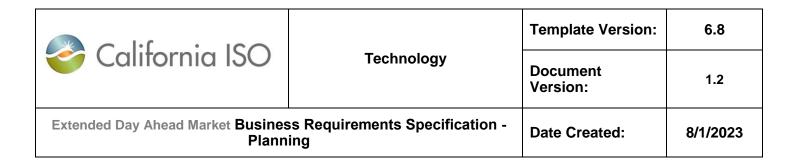
Extended Day Ahead Market

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Extended Day Ahead Market Business Requirements Specification - Planning		Date Created:	8/1/2023

Revision History			
Version	Description		
1.0	Initial Document Release.		
1.1	 ■ Updated BRQs BRQ-02010, BRQ-02030, BRQ-02040, BRQ-02042, BRQ-02044, BRQ-02050, BRQ-02051, BRQ-02054, BRQ-02080, BRQ-02082, BRQ-02083, BRQ-02085, BRQ-02100, BRQ-02102, BRQ-02120, BRQ-02130, BRQ-02140, BRQ-02141, BRQ-02142, BRQ-02150, BRQ-02185 New BRQs BRQ-02041, BRQ-02083a, BRQ-02083b, BRQ-02089a, BRQ-02146, 02250 Removed BRQs BRQ-02200 Section 5.2 Updates Updated BRQs BRQ-04010b, BRQ-04012, BRQ-04013, BRQ-04020a, BRQ-04021, BRQ-04051, BRQ-04052, BRQ-04053, BRQ-04054, BRQ-04058, BRQ-04059, BRQ-04060, BRQ-04065 New BRQs BRQ-04032, BRQ-04040 		
	Section 5.3 Updates		
	 Updated BRQs BRQ-05020, BRQ-05050, BRQ-05080 		
	Section 5.4 Updates		
	 Updated BRQs BRQ-08020, BRQ-08030, BRQ-08040, BRQ-08050, BRQ-08080, BRQ-08130 New BRQs BRQ-08135 		
	Section 5.5 Updates		
	 Updated BRQs BRQ-11010, BRQ-11013, BRQ-11015, BRQ-11030, BRQ-11054, BRQ-11055, BRQ-11060, BRQ-11070, BRQ-11080, BRQ-11100, BRQ-11102, BRQ-11110, BRQ-11120, BRQ-11130, BRQ-11140, BRQ-11170, BRQ-11172, BRQ-11180, BRQ-11190, BRQ-11210, BRQ-11222, BRQ-11250, BRQ-11260, BRQ-11290 New BRQs BRQ-11054a, BRQ-11055a, BRQ-11058, BRQ-11058a, BRQ-11059, BRQ-11099, BRQ-11101, BRQ-11103, BRQ-11112, BRQ-11280, BRQ-11291, BRQ-11295 		
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Date	Version	Description		
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		 Updated BRQs BRQ-12008, BRQ-2016D, BRQ-1203a, BRQ-12040, BRQ-12080, BRQ-12090, BRQ-12110, BRQ-12150, BRQ-12160, BRQ- New BRQs 		
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		 New BRQs BRQ-17022, BRQ-17070, BRQ-17122 Removed BRQs BRQ17220 		
		Section 5.12 Updates		
		 Updated BRQs BRQ New BRQs 		
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Date	Version	Description			
Duit	70101011	Section 5.13 Updates			
		 Updated BRQs BRQ-19010, BRQ-19014, BRQ-19022, BRQ-19026, BRQ-19050, BRQ-19052, BRQ-19063, BRQ-19075, BRQ-19110, BRQ-19115, BRQ-19120, BRQ-19130, BRQ-19140, BRQ-19150, BRQ-19160, BRQ-19170, BRQ-19172, BRQ-19175, BRQ-19240, BRQ-19274, BRQ-19288, BRQ-19298, BRQ-19370, BRQ-19380, BRQ-19400, BRQ-19430, BRQ-19430 			
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04/23/2024	1.2	Updates by Topic:			
		 Removal of TSR commodity DR Inclusion in Forecasting Removal of GHG losses RUC model updates Additional miscellaneous BRQ updates 			

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Date	Version	Updates by Section/Individual Requirements: Section 5.1 Updates
		 Updated BRQs BRQ-02020, BRQ-02089a, BRQ-02142, BRQ-02190 New BRQs BRQ-02087, BRQ-02260 Removed BRQs BRQ-02120
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		Section 5.3 Updates
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		Section 5.4 Updates
		Updated BRQsBRQ-08060
		Section 5.5 Updates
		 Updated BRQs BRQ-11010, BRQ-11014, BRQ-11054, BRQ-11150, BRQ-11190 New BRQs BRQ-11022, BRQ-11106, BRQ-11150a
		Section 5.6 Updates
		 Updated BRQs BRQ-12008, BRQ-12016D, BRQ-12040, BRQ-12050, BRQ-12180, BRQ-12030 New BRQs BRQ-12016 Removed BRQs BRQ-12016A, BRQ-12016B
		Section 5.7 Updates
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		Section 5.8 Updates

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		-	
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		Section 5.14 Updates	
		 Updated BRQs BRQ-20010, BRQ-20011, BRQ-20013, BRQ-20050, BRQ-20051, BRQ-20054, BRQ-20068, BRQ-20070, BFQ-20080, BRQ-20082 New BRQs BRQ-20145 Removed BRQs BRQ-20052, BRQ-20053, BRQ-20062 	
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		No changes to BRQs	
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		No changes to BRQs	

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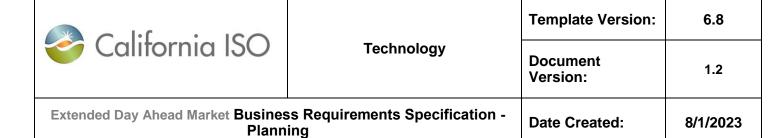
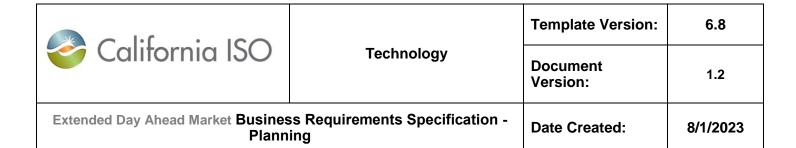


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1. Introduction

1.1 Purpose

The purpose of this document is to capture and record a description of what the Users and Business Stakeholders of the project wish to obtain, by providing high level business requirements. This document establishes the basis for the agreement between the initiators and implementers of the project. The information in this document serves as input to determine the scope of projects and all Business Process Modeling and System Requirements Specifications (SRS) efforts.

Business requirements are what must be delivered to provide value for the Users and Business Stakeholders. Systems, software, and processes are the ways (how) to deliver, satisfy, or meet the business requirements (what).

1.2 Conventions

None

1.3 Scope

Pre-Market Activities

- Extended Day-Ahead Market (EDAM) participating entity contracting
- DA Resource Sufficiency Evaluation (RSE):
 - Optimally determine resource sufficiency for each Balancing Authority Area (BAA) ahead of Day-Ahead Market (DAM) run
 - Report the deficiency of Energy, Imbalance Reserves Up/Down (IRU/IRD), and Ancillary Services (AS)
 - Evaluate RSE before DAM closes for each EDAM BAA
 - Tiered failure consequences with tolerance band and surcharge
- Transmission Commitment (RSE eligible, transmission right, unsold Available Transfer Capacity)
 - Consume from each BAA the availability of transmission internally and across transfer points between EDAM BAAs before market runs
 - Consume transfer limits between EDAM BAAs that parties are using to support RSE showing
 - Register and respect the exercise of existing transmission rights
 - Register and consume the transfer capacity for unsold Firm Available Transfer Capacity (ATC)

DA Market Processes

- Integrated Forward Market (IFM)
 - Market Power Mitigation (MPM) for Energy and IRU for EDAM BAAs extend DAME
 - o Identify transfers for energy, IR and Reliability Capacity (RC) across EDAM BAAs

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- Procure IRU/IRD across EDAM footprint extend DAME
- o EDAM entity option to activate hourly net transfer out constraint
- Price formation for each EDAM BAA, with BAA energy components MEC
- Residual Unit Commitment (RUC)
 - Any offer into IFM must also be offered into RUC
 - o Include MPM for reliability upper capacity extend DAME
 - Procure RCU/RCD across EDAM footprint extend DAME
- Convergence Bidding
 - Retain convergence bidding as it is today in ISO
 - Optional for BAAs participating in EDAM
- External Resource Participation:
 - o For ISO continue to allow intertie bids from non-EDAM BAAs
 - Allow EDAM BAAs to submit self-schedules or qualified network resource economic bids at interties from non-EDAM BAAs

Greenhouse Gas (GHG) Accounting and Design

- Model multiple GHG regulation areas and boundaries
- Build a GHG reference pass before MPM/IFM without GHG bids to build resource GHG reference point
- Extend resource specific GHG attribution model used in WEIM to EDAM, utilize the GHG reference point
- Limit GHG attribution to hourly net export transfers or to zero if there is a net import transfer, allow Resource Adequacy (RA)/contract import

Post-DA Market Processes

Report Tagged DAM awards after DAM, publish tagging report around 3 hours after EDAM.
 Require tagged DAM schedule or resupply by TH-5h to be counted in the pooled WEIM RSE

Real Time Market

- Resource with DAM awards subject to must offer in RTM
- The EDAM BAAs that tagged and/or resupplied will conduct pooled RTM-RSE
- Align WEIM GHG model with EDAM GHG model
- Price formation for each WEIM BAA with BAA energy components MEC

Settlements

- Collect transfer revenue for energy transfer, imbalance reserve (IRU/IRD) transfer and Reliability capacity (RCU/RCD) transfer
- Allocate transfer revenue to EDAM BAA or transmission rights owner
 - ISO BAA sub-allocation to be determined in CAISO EDAM Participation Rules Initiative
- Allocate congestion revenue to the BAA which transmission constraint modeled
- Settlements and allocation for energy, IRU/IRD, RCU/RCD
- DAM Settlements for GHG
- IFM RSE failure Administrative surcharge settlements and allocation

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- IFM Bid cost recovery (BCR) and RUC/RTM BCR
- EDAM BAAs use DAM schedule (instead of base schedule) as the reference point to calculate the imbalance energy
- RTM deviation Settlements for Energy/GHG/FRP/TSR
- EDAM administrative fees

1.4 Acronym and Terms Definitions

Refer to Appendix A0: Acronym Definition

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2.Intellectual Property Ownership

Intellectual Property covers a broad array of information and materials, including written works, computer programs, software, business manuals, processes, symbols, logos, and other work products. Determining ownership of Intellectual Property is very important in preserving the rights of the California ISO, and helps to avoid Intellectual Property infringement issues. In considering the business requirements or service requirements to be performed, the business owner of the project must determine Intellectual Property Ownership.

2.1 Checklist

All information in this document is the Intellectual Property (copyright, trademark, patent, and/or trade secret) of the California ISO.

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3. Details of Business Need/Problem

1. Description

Bu	Business Opportunity/Problem Statement:			
What:	The purpose of this initiative is to create a comprehensive extended day-ahead market (EDAM) that extends over multiple balancing authority areas (BAAs) participating in the WEIM. The EDAM will support voluntary entry, exit, and resource participation in the regional market. The EDAM market design is consistent with the ISO's commitment to fiscal responsibility in structuring an equitable rate design for implementation and EDAM fees, resulting in fair and reasonable rates for its market participants. The market is designed to ensure confidence in market transfers.			
	* The EDAM design leverages existing features of the ISO day- ahead market. The design also considers enhancements proposed in contemporaneous stakeholder initiatives that will harness flexibility across the larger footprint by incorporating an imbalance reserve product.			
Why do we have this opportunity/problem:	EDAM is a voluntary day-ahead electricity market with the potential to deliver significant economic, environmental, and reliability benefits for participants across the West. EDAM will more efficiently and effectively integrate renewable resources and address the significant operational challenges presented by a rapidly changing resource mix, emerging technologies, and the impacts of climate change. EDAM will enable procurement of robust supply and flexible capacity that will position EDAM participants to effectively address changes in conditions from day-ahead to real-time, improving their response to potential reliability challenges. EDAM builds upon the proven ability of the Western Energy Imbalance Market (WEIM) to increase regional coordination, support state policy goals, and cost effectively meet demand.			

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4. Business Impacts

4.1 Business Practice Manuals (BPM)

BPM	Description of Impact(s)	
Definitions and Acronyms	Yes-new definitions and acronyms as outlined in Tariff Appendix A	
Energy Imbalance Market	Yes, details defined in Tariff and requirements	
Extended Day Ahead Market	Yes, new BPM-details defined in Tariff and requirements	
Market Instruments	Yes-details defined in requirements	
Market Operations Yes-details defined in requirements		
Settlements and Billing	Yes-details defined in requirements	

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4.2 Other

Impact	Description (optional)
Market Simulation	Yes
Market Participant Impact	Yes
External Bid Publication	Yes
User Acceptance Testing (UAT)	Yes
Operational Procedures	Yes
Customer Readiness Impact	
External Communication Needed	Yes
External Onboarding and Maintenance	Yes
External Training	Yes
External Computer Based Training	Yes
Policy Initiative	Yes

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5. Business Requirements

The sections below describe the Business processes and the associated business requirements involved in the project. These may represent high-level functional, non-functional, reporting, and/or infrastructure requirements. These business requirements directly relate to the high-level scope items determined for the project.

5.1 Business Process: Manage Model and Contract Implementation and Full Network Model (Master File)

- Define BAA with EDAM participation and activate date
- Define EDAM entity SC and EDAM resource SC—same for DAM and RTM
- Define EDAM internal and external resources, market product eligibility, and RSE flag
- Define DA transfer resources paired ETSRs: with attributes RSE and CRN
- Define EDAM BAA options/eligibilities: CB
- EDAM Entities Sign Attestation for Non-Participating DR Schedules Submission
- Define EDAM Entity election for Demand Response (DR) Inclusion Flag
- STF Notification of Changes to DR Inclusion Flag on EDAM Entity
- Define North/South DGAPs for scheduled resources with unknown location—SP and super DGAP association
- Define GHG regulation areas and resource association
- Define GHG regulation area and branch association in EMMS
- Define GMC rate for EDAM
- Define EDAM load and VER resource type forecast election: ISO or self-provided
- Define EDAM BAA CF and RM for net transfer out constraint
- Define Apnode for Imbalance Demand Hub for each EDAM BAA

5.1.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Define EDAM Entity and EDAM entity SC	Core	Master File
BRQ-	Register EDAM entity		
02010	 Only WEIM entity can choose to participate in the EDAM 		
	 WEIM entity can continue to participate solely in the WEIM 		
	 New entity can join the WEIM and EDAM simultaneously 		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 An entity exiting EDAM (with 6 month notice) can continue to participate in the WEIM 		
	EDAM entity SC shall have the same SCID as in WEIM		
	 EDAM entity SC represents EDAM entity 		
	 EDAM entity SC may represent a market participant other than an EDAM entity 		
	 EDAM entity SC may or may not be the SC for a market resource unless it is a government entity or gen-only BAA 		
	 Expanding current WEIM entity SC functionality—reclassify SCID to denote just WEIM or WEIM and EDAM 		
EDAM-	Define EDAM BAA participation and date:	Core	Master File
BRQ-	Define BAA with EDAM participation flag		
02020	 Define activate date Date must be not less than 6 months and not more than 24 months after the effective date of the EDAM Entity Implementation Agreement The EDAM Entity may request a date change 		
	Note: refer to DAME-BRQ-01200		
EDAM- BRQ-	Define EDAM BAA elections for convergence bidding (CB)	Core	Master File
02030	 Define EDAM BAA convergence bidding (CB) activation date 		
	 CAISO CB shall remain activated – no change 		
	 EDAM BAA can elect to activate CB at the time of joining EDAM, or elect to join EDAM* without convergence bidding 		
	 Registered location, position limit, and nodal constraint will be applicable for the EDAM BAAs that elect CB, in the same manner as CAISO 		
	*Note: For BA that do not elect to turn on CB when joining EDAM, CB will NOT be automatically activated. After approximately two years of EDAM operation, Policy will make a determination regarding when and how to enable CB across the entire EDAM footprint		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Define EDAM BAA load and VER forecast options: ISO forecast or self-provide	Core	Master File
02040	 Define BAA option for load forecast: ISO-provided or self-provided—selection shall apply to both DAM and RTM 		
	 Define BAA option for VER resource or resource type forecast: ISO-provided or self-provided— selection shall apply to both DAM and RTM 		
	 Define all Hybrid Resources and the VER component forecast to be the same as the VER resource election 		
EDAM- BRQ-	EDAM Entities Sign Attestation for Non-Participating DR Schedules Submission	Process	N/A
02041	(refer to RSEE1-1060-BRQ-01020) Each EDAM Entity that plans to utilize a DR program shall sign an attestation that adjustments made to the demand forecast used by the RSE (via submission of Non-Participating DR Schedules) corresponds to expected increases or reductions in demand provided by their programs.		
	 EDAM Entity by default is WEIM Entity too and all rules applicable to WEIM RSEE requirements shall be applicable to the EDAM Entities. 		
EDAM- BRQ-	Define EDAM Entity election for Demand Response (DR) Inclusion Flag	Core	Master File
02042	(refer to RSEE1-1060-BRQ-01040)		
	 Define Demand Response (DR) inclusion flag for including non-participating DR for load adjustment in RSE: 		
	 One flag per Entity Where Entity is either: WEIM-only Entity (existing) EDAM Entity 		
	 That flag shall be enabled for an Entity, only if it has signed attestation stating that adjustments made to the demand forecast used by the DA/RT RSE corresponds to expected increases or reductions 		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	(non-zero values) in demand provided by their programs.		
	Note: Requires EDAM Entity's attestation.		
EDAM- BRQ- 02044	Define EDAM BAA Assistance Energy Transfer (AET) for WEIM Allow EDAM BAA to elect WEIM AET	Existing RSEE2	Master File
	 Allow EDAM BAA election for AET option-in/out. 		
	Note: In RTM if pooled EDAM BAAs fail the RTM-RSE, form two sub-pools: the sub-pool of BAA that elected AET, and sub- pool of BAAs that elected non-AET		
	EDAM BAAs will be able to elect AET opt-in/out in RTM regardless of the outcome of RSE test for them in DAM (given they are WEIM BAAs in RTM).		
EDAM-	Define EDAM resource scheduling coordinator (SC)	Process	Master File
BRQ- 02050	 SC for WEIM and EDAM shall be the same (i.e. supply resources in both WEIM and EDAM shall have the same SC) 		
	 SC for load resource for LSE in EDAM BAA to submit load bids and self-schedule for ELAP, for CLAP if applicable, similar as current DAM configuration to support ISO DLAP, CLAP 		
	 SC for convergence bidding for EDAM BAA opt-in CB, no change as ISO 		
	Note: SC must enter into a SC agreement Define SC for DA TSR		
EDAM-	Entity SC for intertie resource, transfer resource	Core	Master File
BRQ- 02051	(TSR) in EDAM and WEIM (ex: DA TSR RSE eligible)		
	 Define eligible transmission customer SC for system resource (SR) and TSR (ex: transmission right owner, TSR with contract CRN) 		
EDAM- BRQ-	EDAM SC and WEIM entity and resource shall have a one-to-one relationship	Process	Master File
02052	 An EDAM Entity SC or EDAM Resource SC must have a one-to-one relationship with an EIM Entity or 		

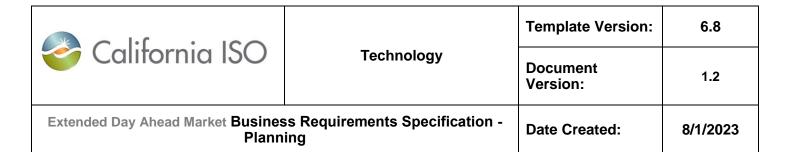
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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	EIM Participating Resource it represents in the Energy Imbalance Market		
	 One Entity SC represents the entity participating in EDAM and WEIM 		
	 One resource SC represents the resource participating in EDAM and WEIM 		
	 One-to-one relationship with resource and entity 		
	 Applicable EDAM LSE SC shall have a one-to-one relationship with the EIM Sub-Entity 		
EDAM- BRQ-	Nodal Price Model (NPM) supports only non-EDAM BAAs	Process	Master File
02054	 NPM shall only support non-EDAM BAA, Remove NPM settings for the BAA that join EDAM- 		
	 BAA can be either NPM or EDAM, but cannot be both 		
	 DAM will continue to support NPM for new BAAs that subscribe to the NPM service. 		
	Note: May be set a test case with remove PACE/PACW, add a NPM BAA		
EDAM- BRQ-	Define ISO and EDAM Internal supply Resource participation and eligibility for RSE	Core	Master File
02060	 All resources within the BAA will participate in the DAM market. Define Resource sufficiency evaluation (RSE) eligible flags for DA-RSE Internal supply resources are RSE-eligible if they are designated resources. 		
	 If a resource participates in DA-RSE, it must participate in RT-RSE. However there can be resources that participate in RT-RSE only (and not in DA-RSE). 		
EDAM-	Define EDAM Supply Resource for capacity eligibility	Core	Master File
BRQ- 02062	 Extend eligibility flags for IRU/IRD, RCU/RCD to EDAM resources (from DAME) 		
	 Specify EDAM resource flags for DAM, Energy, AS, same as ISO resources 		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Define EDAM load Resource	Process	Master File
BRQ-	 Define load resources for LSE in ELAP 		
02070	 Define Load resource SC 		
	Define load forecast zone		
	Define CLAP resource for third party load		
EDAM- BRQ- 02080	Define dynamic resource (TG) with RSE eligibilityFor ISO	Process	Master File
02000	 Define dynamic schedule or pseudo-tie resource to submit economic bids or self- schedules (SS) in EDAM 		
	 Dynamic resource (TG) should be registered as RSE eligible 		
	 For other EDAM BAA 		
	 Define dynamic or pseudo-tie resource to submit economic bids or SS in EDAM 		
	 Dynamic resource (TG) should be registered as RSE eligible 		
	 Define network resource under OATT, register as TG, to submit economic bids for EN/IR/RC or SS energy in EDAM. The network resource shall be located in WEIM BAA, outside of EDAM BAA, and must be a physical resource 		
	 Network resource under OATT, registered as TG, shall be RSE eligible 		
	 The dynamic schedule from one EDAM BAA to another EDAM BAA is not supported, SC shall bid from the resource in EDAM BAA and transfer TSR 		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Define system resource (SR) between EDAM BAA and non-EDAM BAA RSE eligibility	Process	Master File
02082	 For ISO 		
	 Define system resource to submit economic bids or self-schedule (SS) in EDAM 		
	 Import System Resources at CISO interties are RSE-eligible only if associated with a contract (CRN or RA) 		
	 PT export is RSE eligible 		
	 For other EDAM BAA 		
	 EDAM entity SC shall register static system resource (SR), can only self-schedule (SS) in EDAM, no economic bids 		
	 All import/export system resources should be registered as RSE eligible 		
	Note: PT – high priority export as provided in existing tariff rules applicable to CISO		
EDAM- BRQ-	Define Mirror Resource for SR in non-EDAM BAA that is in a WEIM BAA	Core	Master File
02083	 Setup the Mirror System Resource (MSR) in WEIM for mirroring the DA schedule between EDAM BAA and non-EDAM BAA that is a WEIM BAA. 		
	 Define mirror resource on a WEIM BAA DGAP 		
	 WEIM BAA will submit base schedule on MSR mirroring aggregated SR DA schedules of EDAM BAAs 		
	 DA schedule can be the schedules for SR MF defined or dynamic formed transaction ID 		
	 WEIM BAA can elect to set MSR as auto- mirror for the aggregated DA schedule of SRs between WEIM BAA and EDAM BAAs 		
	Note:		
	Non-EDAM WEIM BAA needs to set up and schedule mirror resource		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 02083a	Existing MSRs for EIM BAAs not joining EDAM that mirror DA CISO import/export schedules at CISO Scheduling Points will be preserved, but the MSR location will move to the DGAP of the EIM BAA Existing MSRs for EIM BAAs joining EDAM that mirror DA CISO import/export schedules at CISO Scheduling Points will be retired; EDAM Transfers will be used instead	Process	Master File
EDAM-	Support Auto-mirror MSR for DA schedule	Core	Master File
BRQ- 02083b	 Setup Auto-mirror for MSR at WEIM BAA DGAP that Import/Export with EDAM BAA. 		
EDAM-	Define wheel through EDAM BAA schedule	Process	Master File
BRQ- 02084	 A wheel through an EDAM Entity BAA from an EDAM External Intertie location to another EDAM External Intertie location, balance self-schedule import/export—same as wheel setup for ISO 		
	 Define Wheel through ISO schedule from non- EDAM BAA to non-EDAM BAA—same as today 		
EDAM- BRQ-	Define Super DGAP (SDGAP) hubs for system resource without location for non-EDAM BAAs	Core	Master File
02085	 Super DGAP(SDGAP) shall associate directly with Pnodes of non-EDAM BAAs in WECC Define multiple SDGAP hubs, North SDGAP, include WECC northwest non-EDAM BAA's pnodes, define the list South SDGAP, include WECC southwest non-EDAM BAAs' pnodes, except Mexico (CFE), define the list:		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Define DGAP association with Interties and scheduling point (SP) and ITC/ISL	Core	Master File
02086	 All SR at SP need to specify the DGAP location— register the SR and DGAP in the RDT 		
	 The alternate tie should specify the DGAP and associated ISL constraint. 		
EDAM-	Associate DGAP-TIE, Tie- ITC	Core	Master File
BRQ- 02087	 Define DGAP and TIE mapping Define SDGAP and TIE mapping, associate north/south SDGAG with corresponding north/south TIE, 	66.6	maeter i lie
	Define TIE-ITC mapping.		
EDAM- BRQ-	Associate DGAP and System resources (SR) that are currently defined at CAISO Scheduling Point (SP)	Process	Master File
02088	Communication with existing SR resource SC to register the DGAP location		
	SC of SR shall submit the association of DGAP of BAA or super DGAP location for the SR		
EDAM- BRQ-	Define system resource (SR) with unknown location at specified non-EDAM DGAP for ISO and EDAM	Core	Master File
02089	 Terminate the registered system resource between two EDAM BAAs and between EDAM BAA and ISO, except for RA 		
	RA resource at ISO SP will have the following rules:		
	 RA is scheduled between ISO and EDAM BAA through RSE eligible TSR 		
	 RA is mapped to non-EDAM DGAP, keep SR and Mirror for RTM if it is WEIM BAA, ex: Mona SP for RA, Malin SP 		
EDAM-	Model existing SR for ISO	Process	Master File
BRQ- 02089a	 The location of System Resources with DA import/export schedules at CISO Scheduling Points from/to non- EDAM BAAs in DAM will move to the source/sink BAA DGAP 		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	The location of System Resources with DA import/export schedules at CISO Scheduling Points from/to non-EIM BAAs in RTM will move to the source/sink BAA DGAP		
	 The Scheduling Point and intertie association of the System Resources in (1-2) above will be preserved 		
EDAM- BRQ- 02090	Resources not eligible for DA resource sufficiency evaluation for ISO and EDAM: Non-PT exports are not RSE eligible Wheel through schedules are not RSE eligible Convergence bid resources are not eligible for RSE Load resources are not eligible for RSE If internal resource are pseudo-tie out for other BAA, they are non-RSE eligible	Process	Master File
EDAM- BRQ-	Define paired DA TSRs resource ID of paired EDAM BAAs	Core	Master File
02100	 EDAM entity SCs register DA TSR, paired TSRs (Import/Export) for paired EDAM BAAs in the same manner as in WEIM: 		
	 DA TSR is defined as a separate variable, in addition to the WEIM Base ETSR, static/dynamic ETSR 		
	 Designate one of the paired DA TSR as the one to submit tag for DA TSR and mirror resource same as for WEIM Base 		
	 DA TSR can model transfer of energy, IRU/IRD, RCU/RCD in the DAM 		
EDAM- BRQ-	Define EDAM TSR and WEIM ETSR at transfer location at Cnode/Apnode of the intertie	Core	Master File
02102	 For WEIM all static, dynamic, base transfer resource ETSR, change ETSR resource location to transfer location at Cnode/Apnode of the intertie 		
	 For EDAM transfer resource TSR, define TSR resource location to transfer location at Cnode/Apnode of the intertie 		
	Note: EDAM and WEIM will explicitly settle the transfer resource. Market will calculate the Locational price for energy, congestion and losses. The transfer location will be used to calculate nodal price, and used in Settlements for transfer revenue and transfer MCC allocation.		

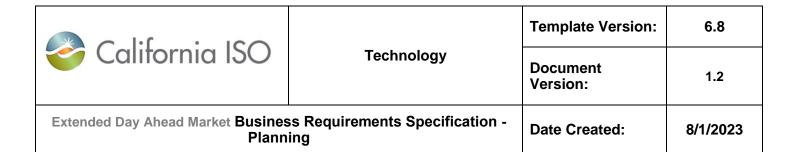
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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 02110	 Define RSE eligibility for the DA TSR Define RSE flag for the transfer resource DA TSRs that are eligible for the EDAM BAA resource sufficiency evaluation DA TSR can be associated with CRN, if RSE flag is not set at MF, it is determined as RSE eligible based on the volume of self-schedule in the market. 	Core	Master File
EDAM- BRQ- 02130	Register contracts/transmission rights (CRN) for ETC/TOR/OATT associated with DA TSR For the transfer capacity that under transmission right contract: Define the transfer resource paired DA TSR resources associated with contract CRN Define the CRN contract same as today for CAISO: PTP or Network, transmission rights, start and end date, impact an intertie, schedule priority, congestion reversal, loss reversal Define the transmission customer SC for the DA TSR with CRN, allow the paired DA TSR to have the same SC For ETC/TOR: EDAM entity shall register both the physical and financial locations Define two new contract types for OATT, in addition to ETC, TOR OATT 1: higher scheduling priority in RT than DA schedules OATT 2: equal scheduling priority with DA schedules in RT Note: All other attributes for OATT 1 and OATT 2 are the same	Core	Master File
EDAM- BRQ- 02134	Register contracts/transmission rights (CRN) associated with EDAM BAA internal legacy transmission contracts • Define EDAM internal legacy transmission contracts in the same way as ETC/TOR for ISO. Note: EDAM will extend the model for ISO's ETC/TOR to EDAM BAAs to accommodate the legacy contracts in the EDAM BAAs.	Core	Master File

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Define GHG regulation areas for DAM and RTM	Core	Master File
BRQ- 02140	 Define GHG regulation area (E.g. California, Washington) 		
	 Define GHG area Anode and to map the Cnodes 		
	 Allow DAM and RTM to have different GHG regulation area boundaries. Define GHG regulation area association with DAM GHG regulation area, RTM GHG regulation area 		
	Example: the CAISO BAA and other CA BAAs are in the California GHG regulation in WEIM, but the CAISO BAA could be the only BAA in the California GHG regulation in the DAM:		
	 Define 3 regulation Anodes for CA: define overall CA GHG Regulation Anodes, DA CA GHG regulation Anodes, and RT CA GHG regulation Anodes. DA and RT are linked to overall CA to support deviation Settlements. 		
EDAM- BRQ- 02141	Map GHG regulation areas and associated internal resources for all WEIM and EDAM BAAs that overlap with CA state and/or WA state	Core Process	Master File
	 Any WEIM BAA that overlaps with Washington State and/or CA State must provide the substation-to-state mapping for all existing and new/future substations 		
	 For each GHG regulation area, associate internal supply resources and demand resources 		
	Note: The GHG internal resources will include GHG cost in energy bids for this GHG area. No GHG bid for the resources deemed as internal to a GHG area		
EDAM- BRQ- 02142	Define GHG contractual MW and compliance obligation for resources outside a GHG regulation area to serve demand in that GHG regulation area	Core	Master File RDT
	 The EDAM Entity scheduling coordinator must register whether their supply resource has contractual MW obligations (includes RA and non- RA) to serve load in another BAA if that BAA overlaps with a GHG regulation area. 		
	 A resource should not be GHG pseudo-tied to the GHG Regulation Area 		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Sum of contractual MW to multiple GHG regulation areas cannot exceed resource Pmax 		
	 EDAM Entity SC must provide MW committed and the start and end dates of the commitment 		
	 Register contractual MW obligations at hourly granularity (i.e. one MW value per hour per resource) 		
	 Follow standard MF change process (i.e. system shall not support dynamic changes for this process) 		
EDAM- BRQ-	Split existing WEIM Load Aggregation Points (ELAPs) across GHG states boundaries	Core	Master File
02143	 ELAPS shall be defined for each portion of a BAA that overlaps with a GHG regulation area and for each portion of a BAA that does not overlap with a GHG regulation area, based on CNODE coordinates. 		
	 Entity coordination likely required 		
EDAM- BRQ- 02144	Establish and maintain association of nodes and resources as described in BRQ-02143	Business Process	Master File
EDAM- BRQ-	Define Resource GHG pseudo-tie flag for the specified GHG area	Core	Master File
02145	 GHG pseudo-tie must be an energy pseudo-tie resource, no GHG bid adders are allowed under this model. This attribute shall be submitted by the SC 		
	 Only resources in a BAA that partially overlaps with a GHG regulation area shall have the option to elect the GHG pseudo tie attribute 		
	 Resources not located in a BAA that overlaps with a GHG regulation area must establish a pseudo-tie into a BAA that overlaps with a GHG regulation area to be able to elect GHG pseudo tie 		
	 System shall not support GHG pseudo-tie from one GHG area to another GHG area without a pseudo-tie established 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	GHG pseudo-tie resources shall include GHG cost in energy bids and DEBs		
	Note: In IFM/RTM, GHG constraint shall consider this resource to be GHG internal resource → no GHG attribution.		
EDAM- BRQ-	Define Intertie (Tie ID) association with GHG Regulation Area	Core	Master File
02146	Define the Tie IDs of the BAA with GHG regulation areas:		
	 The BAA shall overlap with one or more GHG regulation areas 		
	 One Tie shall only associate with one GHG regulation area 		
	 The different Ties of the BAA can associate with different GHG regulation areas if the BAA overlaps with more than one GHG regulation area 		
EDAM-	Define the GHG bid adder framework	Business	Process
BRQ- 02150	 The definition of a new GHG area in MF shall activate the GHG bid adder framework for that area (i.e. activation of GHG bid adders, LMPs including GHG components) 	Process	
EDAM- BRQ- 02180	Define GMC rate for EDAM BAAs	Core	Master File
EDAM- BRQ-	Define a flag that indicates whether a BAA overlaps with GHG regulation area	Core	Master File
02185	 Include a flag for BAAs that wholly or partially overlap with GHG regulation area 		
EDAM- BRQ- 02190	Define GHG regulation area and network branch association	Core	Internal ISO System
	 Based on the GHG area Apnode and Cnode, if branch is within the GHG regulation area, define an attribute to associate branch with GHG regulation area 		
EDAM-	Define EDAM BAA Imbalance Demand Hub	Core	Master File
BQ- 02220	Define anode, APnode for EDAM BAA Imbalance demand Hub, include load nodes, solar resource Cnodes and Wind resource Cnodes	DAME	

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Extend Definition and accessibility of Imbalance Demand Hub to EDAM BAAs	Core	Master File
02250	(refer to DAME-BRQ-01150)		
	System shall extend the definition and accessibility Imbalance Demand Hub to EDAM BAAs.		
EDAM-	Allow EDAM entities to submit use-limited data	Core	Master File
BRQ- 02260	 System shall allow EDAM entities to submit use- limited data in the same manner as in WEIM today 		
	Data shall be displayed on the Actual Limitation Values and Opportunity Cost CMRI reports (under the Default Bids category)		

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5.2 Business Process: Manage Forecast (ALFS)

- Load forecast and publication for EDAM BAAs every 30 minutes (configurable) between 6 am-9am
- VER forecast and publication for EDAM BAAs every 30 minutes (configurable) between 6 am-9am
- DR adjustment (Extend RSEE 2 DR functionality to EDAM)

5.2.1 Business Requirements

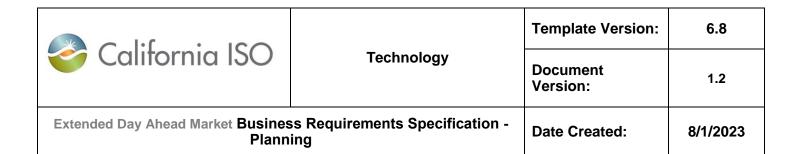
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 04010a	Forecast System to Forecast load for all EDAM forecast zone levels between 6 am and 9 am CAISO STF forecast load at the EDAM BAA level for all	Core	ALFS
	EDAM entitiesCAISO STF forecast load for all custom LAP forecast zones		
EDAM- BRQ- 04010b	System will make the load forecasts available every 30 minutes for all forecast zones between 6am and 9am	Core	ALFS
EDAM- BRQ-	Allow EDAM entities to select ISO forecasted load or self- provided forecasted load	Core	ALFS
04012	 Access MF DA and RT selections that are required to match 		
	 Selection timing and changes to selections shall follow the development process outlined in Tariff §Appendix Q (minimum of 30 days) 		
	 If any sub-entity elects to self-provide forecasts, the entire entity shall self-provide forecasts 		
EDAM- BRQ- 04013	ISO and self-provided forecasts shall follow existing DAM timing and granularity:	Business Process	ALFS ALFSSOA
	Submit DA through day 7 forecasts in hourly granularity		ALFSSOA
	 Allow for updates to forecasts for advisory RSE runs every 30 minutes between 6 am and 9 am 		
	 Include processing time buffer (exact amount TBD) ahead of 6 am and 9 am for self-provided forecast submission 		
	If no self-provided forecast is submitted, back-fill with ISO forecast		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	EDAM entity data submission requirements for CAISO to build forecasts	Business Process	ALFS
04014	5 year historical load data		
	Weather Stations		
	 Zip code mapping (to assist with BTM/DER incorporation) 		
	Note:		
	If the entity already uses ISO forecast in WEIM, no new data is needed		
EDAM- BRQ- 04020a	System shall make available hourly VER forecast every 30 minutes between 6am and 9am	Core	ALFSSOA
EDAM- BRQ- 04020b	Forecast System to generate VER forecast for every EDAM entity	Core	ALFS
EDAM- BRQ-	Allow EDAM entities to select ISO VER forecast or self- provided VER forecasted	Core	ALFS
04021	Access selection of ISO provided for self-provided that is performed in MF		(from MF)
	DA and RT selections are required to match		
	Forecast fee shall be charged to entities that consume ISO provided forecasts for either DAM or RTM		
	Selection timing and changes to selections shall follow the development process outlined in Tariff §Appendix Q (minimum of 30 days)		
	If any WEIM BAA entity breakout elects to self-forecast, the entire BAA shall provide self-forecasts		
EDAM- BRQ- 04032	Forecast shall not be modified to account for DA RDRR. RDRR is treated as supply in RT	Business Process	ALFS

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 04040	Access EDAM and WEIM Entities Participation Flags System shall access the following data from MF: • EDAM Participation Flag (and its activation date) • WEIM Entity Flag (and its activation date)	Core	ALFSSOA (MF)
EDAM- BRQ- 04041	 Setup configurable performance factor by forecast zone Define submitted historical performance as a DR Performance Factor for EDAM/sub-entity forecast zone based on the submission by EDAM/WEIM entity through CIDI Submitted Performance factor value must be ≥0; default value is 1 Define effective performance factor for each forecast zone Default value shall be the same as submitted value. The CAISO will not override DR performance factors, however under exceptional circumstances the CAISO may override a DR schedule for specific intervals Submitted and effective performance factors shall be communicated to EDAM/WEIM entities EDAM BPM section for non-participating DR will detail requirement for EDAM Entities to submit historical DR performance evaluation data for the DR Performance evaluation 	Core	ALFS (CIDI)
EDAM- BRQ- 04051	Access DR Inclusion Data from MF System shall access the following data from MF:	Core	ALFSSOA



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 04052	Consume Non-Participating DR Schedules from EDAM Entity System shall have the capability to automatically consume the following from EDAM Entities that plan to utilize DR that are not explicitly modeled in DAM/RTM (DRPs that are not able to be represented by the PDR or RDRR models) for Load Forecast (LF) zones that have enabled DR Inclusion Flag and confirmed DR Performance Factor option, using similar mechanism as receiving existing LF: Non-Participating DR Schedules Notes EDAM Entity shall include CAISO BAA. Remove the threshold 5% of LF for DR inclusion EDAM Entity by default is WEIM Entity too and all rules applicable to WEIM RSEE requirements shall be applicable to the EDAM Entities. Submitted Non-Participating DR Schedules shall be in 5-min granularity and they are on-demand submission. If 15-min granularity schedule is desired, participants shall enter same schedule for each 5-min within the corresponding 15-min. If hourly granularity schedule is desired, participants shall enter same schedule for each 5-min within the corresponding hour. The DRPs can be reflected as an increase in load that	Core	ALFS ALFSSOA
	 captures expected "pre-cooling" as well as a decrease in LF that reflects the DR event itself. Currently, data is received by 8 am; receive time is being pushed up to 7 am 		
EDAM- BRQ- 04053	For consideration in DA Demand Forecast Process, non- Participating DR Schedules shall be consumed from the EDAM Entity by 7am (8am submittals will be considered in exceptional circumstances).	Business Process	ALFS ALFSSOA
EDAM- BRQ- 04058	Any submittals after 8am cannot be incorporated into demand forecast adjustment Accounting for DR LF Adjustment in DA Demand Forecast Process For each EDAM BAA, System shall utilize applicable business process to:	Core	ALFS

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Determine the performance factor The configurable DR Performance Factor will be used as part of monitoring and enforcing non-participating DR performance. Apply a single DR Performance Factor to entire non-participating DR Schedule. The DR Performance Factor will be mapped at LF zone associated with EDAM BAAs. The DR Performance Factor can be updated per process set forth in BPM. The DR Performance Factor mapping would be maintained in system upstream of ALFS (IDR). Include performance adjusted DR schedule in the load forecast (LF), eliminate the 5% threshold so that all submittals are included in ALFS LF after application of the non-participating DR Performance Factor 		
EDAM-	Refer to EDAM-BRQ-04041 Broadcast Load Forecast (LF) with applicable DR	Core	ALFS
BRQ- 04060	Adjustment Broadcast for BAA level and each LF zone that is associated with EDAM BAA and/or Sub-Entity, for the LF with DR adjustments (e.g., DR Performance Factor), same as existing broadcast for LF in DAM		ALFS-SOA
EDAM- BRQ- 04065	When a CLAP level forecast exists for a BAA: distribute BAA level forecast to the CLAP levels using load distribution factors	Existing	ALFS
EDAM- BRQ- 04070	Support additional FSP reports (VER, BTM, and weather forecasts) Consume from FSP additional reports	Business Process	ALFS

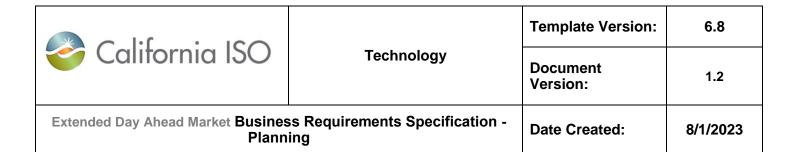
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5.3 Business Process: Manage BAA Requirement Calculation

- Extend IRU/IRD requirement forecast parameters estimation to EDAM BAAs and entire EDAM footprint
 using quantile regression model for DAM trading day
- Extend DAME IRU/IRD demand price curve to EDAM BAAs
- For the WEIM-RSE: treat EDAM pool as a super BAA, calculate the EDAM-pool up and EDAM-pool down FRU/FRD requirement forecast parameters estimation
- Include EDAM pool that passed WEIM-RSE in the passing group
- For the EDAM pool failed WEIM-RSE: break pool into AET/non-AET and calculate FRU/FRD requirement forecast parameters estimation
- Consume and store the EDAM load and VER forecasts 365 days prior to EDAM activation

5.3.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 05020	Extend IRUR/IRDR parameters estimates for each EDAM BAA and entire EDAM footprint, broadcast at 6 am of Day-ahead • Extend IRUR/IRDR parameters estimates for each EDAM BAA and entire EDAM footprint	Core DAME The detailed requirements are specified in the DAME BRS	Internal ISO System
EDAM- BRQ- 05050	 Extend calculation of hourly IRU/IRD demand price curve for IRU and IRD for each BAA using latest (9 am) forecast of Dayahead Consume the hourly demand, solar and wind forecast at 9 am for DAM time horizon, aggregated for each BAA. Calculate IRU/IRD demand price curve for each hour interval for each BAA in the EDAM Area Broadcast IRU and IRD demand price curve after 9 am and before 10 am Demand price curve is for IFM, the DA-RSE uses penalty cost for IRUR/IRDR 	Core DAME The detailed requirements are specified in the DAME BRS DAME-BRQ-02320	Internal ISO System
EDAM- BRQ- 05060	FRUR/FRDR parameters estimates for each 15min interval of the Trading Hour (TH) for EDAM BAAs up/down pools for WEIM RSE at TH-5hr	Core FRP deliverability BRS	Internal ISO System



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	System consumes from SIBR the EDAM up/down pools associated BAAs		
	 System estimates parameters by using the pooled BAAs historical uncertainty data. System will always regress and calculate the second order polynomial coefficients data for the pool of EDAM BAAs as a super BAA 		
	Merge 15min net demand/solar/wind data adjusted forecast uncertainty and advisory forecast for the trading hour in the Data Retention Period for the Day Type of the Trading Day of the trading Hour for the group of BAAs in the EDAM pool		
	 Calculate net load high/low (P99/1) threshold, calculate Histogram (P97.5/2.5) and the second-order polynomial coefficients (A₁₅^{P97.5/2.5}, B₁₅^{P97.5/2.5}, C₁₅^{P97.5/2.5}) of the High/Low Percentile quadratic quantile regression of demand, solar, wind and net load, and MOSAIC for EDAM pool 		
EDAM- BRQ-	FRUR/FRDR parameters estimates for the passed group that include BAAs in EDAM pool that passed WEIM-RSE at TH-40	Existing	Internal ISO System
05062	If EDAM pool as super BAA passed the WEIM-RSE, all the BAAs in EDAM pool will be part of the passing group. Parameter estimation for the passed group shall apply.	deliverability BRS	
EDAM- BRQ- 05070	FRUR/FRDR parameters estimates for each 15min/5min interval of Trading Hour (TH) for AET sub-pool and non-AET sub-pool formed at TH-5hr	Core	Internal ISO System
	Consume the EDAM BAA AET sub-pool and non-AET sub-pool and associated group of BAAs for the trading hour		
	 Merge 15min net demand/solar/wind data adjusted forecast uncertainty and advisory forecast for the trading Hour in the Data Retention Period for the Day Type of the Trading Day of the trading Hour for group of BAAs in AET sub-pool and Non-AET sub-pool 		
	 Calculate net load high/low (P99/1) threshold, calculate Histogram (P97.5/2.5) and the second-order polynomial coefficients (A₁₅^{P97.5/2.5}, B₁₅^{P97.5/2.5}, C₁₅^{P97.5/2.5}) of the High/Low Percentile quadratic quantile regression of demand, solar, wind and net load, and MOSAIC for each sub-pool 		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 05075	FRUR/FRDR parameters estimates every Hour (TH) of trading day for EDAM pool upward/downward and AET sub-pool and non-AET sub-pool formed at the time DAM result posted	Core	Internal ISO System
	 Consume IFM and RUC PBC surplus variable values for each EDAM BAA from market for each hour 		
	Consume the BAA AET options from MF		
	Form the EDAM pool composition:		
	 The EDAM BAAs that have the PBC surplus variable non positive values composite the EDAM Upward pool 		
	 The EDAM BAAs that have the PBC surplus variable non negative values composite the EDAM downward pool 		
	 The BAAs in EDAM Upward pool that option AET form the AET sub-pool 		
	 The BAAs in EDAM Upward pool that option non- AET form the non-AET sub-pool 		
	 Use same method to estimate FRUR/FRDR parameters every Hour (TH) of trading day for the EDAM upward pool, downward pool, AET sub-pool and non-AET sub-pool 		
	 Broadcast 15min interval of each hour's Histogram, second-order polynomial coefficients, net load uncertainty threshold for each pool and sub-pool 		
	Note:		
	This process will occur right after the DAM run finishes, therefore providing EDAM entities with advisory FRP parameters soon after the DAM runs		
EDAM- BRQ-	System shall consume and store EDAM VER and load DAM forecast data prior to EDAM activation	Core	Internal ISO System
05080	Consume/store trading day of DAM load, wind, solar forecast for EDAM BAA data in retention period (default 365 days), broadcasted from the market before the activation of EDAM		

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Extended Day Ahead Market Business Requirements Specification - Planning		Date Created:	8/1/2023

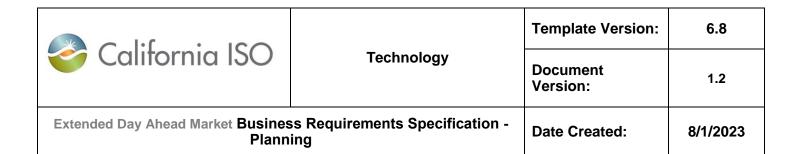
5.4 Business Process: Mange Default Energy Bids

- Calculate DEB, DAB, and GHG cost for EDAM resources
- Update GMC

5.4.1 Business Requirements

5.4.1 business requirements			
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 08010	 Extend DEB and reasonableness threshold DEB to EDAM resources Provide DEB and reasonableness threshold DEB for all resources in all EDAM BAAs, by default, all the resources in the EDAM BAA Maintain existing logic when determining which resources the system shall calculate a DEB for Include appropriate GHG cost for resources located within a GHG area (i.e. WA GHG cost for resources in WEIM WA GHG Area, CA GHG cost for resources in CA GHG area) 	Existing	Internal ISO System
EDAM- BRQ- 08020	Calculate maximum GHG Bid adder Eligibility Calculate maximum GHG bid adder for resources when the following conditions are met: Resource is not located within a GHG regulation area Note: Maximum GHG Bid adder=GHG bid cap	Core	Internal ISO System
EDAM- BRQ- 08030	Calculate Resource maximum GHG bid adders for resources to serve load in EDAM GHG regulation areas Maximum bid adders shall be specific to each GHG regulation area (i.e. one set of maximum bid adders for each GHG regulation area) Use existing calculation methodology—use same external feeds as today Use WA GHG allowance price for WA, and CA GHG allowance price for CA A resource can serve multiple GHG regulation areas, so can have multiple maximum GHG bid adders.	Core	Internal ISO System

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Include EDAM Administrative charge in non-CAISO variable cost-based DEBS for EDAM resources	Core	Internal ISO System
08040	 Variable Cost-based DEBs for non-CAISO EDAM resources should include the EDAM Administrative charge rate in both the DAM and RTM DEBs 		
	 Use EDAM Administrative charge rate for EDAM resources, continue to use WEIM and CAISO Administrative charge rates accordingly 		
	 Access EDAM Administrative charge defined in MF 		
EDAM- BRQ-	Extend IRU/IRD, RCU/RCD default availability bid (DAB) to EDAM resources	Core	Internal ISO System
08050	 Set configurable IRU/IRD, RCU/RCD default availability bid (DAB) to \$55/MWh 		
EDAM- BRQ-	Obtain and store on-peak bilateral trading Mid-C, PV Hub prices	Core	Internal ISO System
08060	 Used for Settlements surcharge for the BAA failed DA- RSE 		, , , , ,
	Bilateral trading Mid-C, PV Hub prices for DA-RSE deficit penalty calculation		
EDAM- BRQ-	Extend existing DEB, reasonableness threshold DEB, and GHG data for EDAM Resources	Core	Internal ISO System
08070	• DEB	DAME	
	Reasonableness threshold DEB		
	GHG startup cost curve		
	GHG min load cost		
	GHG energy component		
	DAB for IRU/IRD, RCU/RCD		
EDAM-	New GHG related data:	Core	Internal ISO
BRQ- 08080	 Most recent Resource maximum GHG bid adders for each GHG area 		System
	Note for GHG areas: WA and CA may have different maximum GHG bid adders		
EDAM- BRQ-	Update Administrative charge rate for EDAM and apply to EDAM resources	Core	Internal ISO System
08130	Access the EDAM Administrative charge data from MF		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Use EDAM Administrative charge to calculate variable cost based DEB		
	 For EDAM use EDAM Administrative charge All resources in EDAM BAA are EDAM participating resources—use BAA EDAM participating flag to determine the resources subject to the EDAM Administrative charge 		
	 For WEIM, only use WEIM Administrative charge 		
EDAM-	Prepare GHG price of GHG area	Core	Internal ISO
BRQ- 08132	GHG area GHG price (GHGasm-1) for the previous month, average greenhouse gas allowance price from prior month		System
	GHG area GHG price (GHGast,y-1) for the previous year, average greenhouse gas allowance price from prior year.		
	GHG area GHG price (GHGasm-12) for the monthly average greenhouse gas allowance price from the previous year's period, m-12		
EDAM- BRQ-	Expand existing WEIM negotiated DEB (NDEB) calculations to EDAM entities	Core	Internal ISO System
08135	 Extend negotiation, testing, implementation, and production of NDEBs to EDAM entities 		
	No changes to existing WEIM entity NDEBs		
	Broadcast EDAM NDEBs to downstream systems		
	Note: Business Process: DMM shall reach out to new EDAM entities with existing WEIM NDEBs to confirm/renegotiate DAM NDEB		

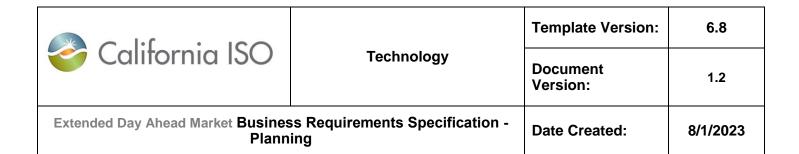
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Extended Day Ahead Market Business Requirements Specification - Planning		Date Created:	8/1/2023

5.5 Business Process: Manage Bid Submission and TSR Submission (SIBR)

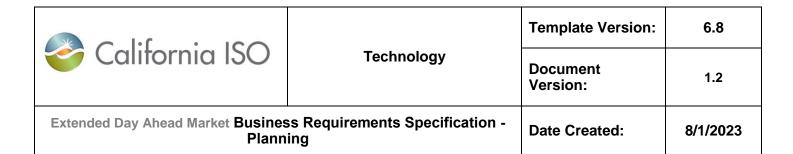
- Facilitate EDAM resource bid submission in SIBR to participate the DAM market, similar to ISO resources
- Facilitate the DA TSR schedule and limits submission, with MF defined attribution for RSE, and deemed pathway for TSR with CRN in SIBR
- Facilitate late schedule for CRN through RTSI
- Facilitate EDAM BAA AS requirements in SIBR
- Facilitate dynamically formed DA TSR ID in SIBR
- Allow transaction ID location at DGAP or super DGAP
- Facilitate EDAM entity, on behalf of transmission right owner, to submit new CRN definition for each sale by 9 am in DAM, and by TH-90 min in RTM
- Allow SC of resources that sell CRN to submit self-schedules associated with corresponding new CRN in the DAM or RTM

5.5.1 Business Requirements

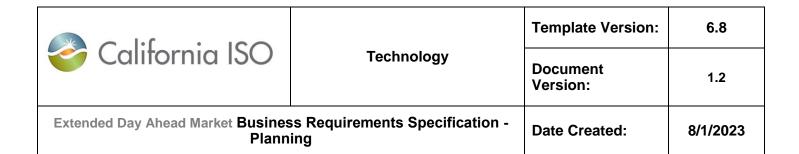
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 11000	EDAM resources participate in DAM market, similar to ISO resources General statement: DAM validation rules for CAISO apply to EDAM	Business Process	SIBR
EDAM- BRQ- 11010	Access Master file definition and association for EDAM:	Core	SIBR (from MF)
EDAM- BRQ- 11011	Access EDAM BAA Convergence Bidding participation flag from Master file	Core	SIBR (from MF)
EDAM- BRQ- 11012	Access resource eligibility flags Access EDAM resource participation, RSE flag and eligibility flags on market product EN/AS/IR/RC from Master File, in the same manner as ISO resources	Core	SIBR (from MF)



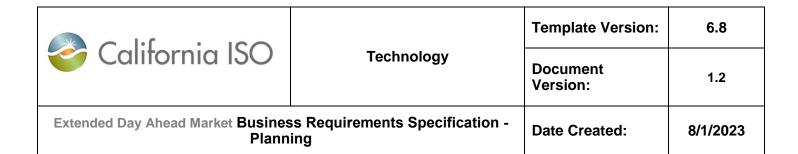
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 11013	Access intertie resource eligibility flags Access intertie resources an, RSE flag, bid eligible flags for bids, or self-schedule only from Master File	Core	SIBR (from MF)
EDAM- BRQ- 11014	Access DA TSR and attributes Access DA TSR and RSE flag, contract number (CRN), and limits from MF	Core	SIBR (from MF)
EDAM- BRQ- 11015	Access GHG area and associated resources Access the defined GHG area, mapping of resources associated with the GHG area, the CLAP associated with the GHG area, GHG pseudo tie flag from Master File, and resources that are dynamically scheduled into a BAA that overlaps with a GHG regulation area	Core	SIBR (from MF)
EDAM- BRQ- 11020	Allow EDAM LSE SC to submit non-participating load resource bids Allow EDAM LSE SC to submit non-participating load resource bids modeled with up to 10 segments monotonically decreasing for EDAM BAAs, same as demand resource bids for ISO BAAs Note: The Participating Load in the CAISO Markets, like Generation by submitting Supply Bids when offering Curtailable Demand and as non-Participating Load by submitting Demand Bids, are to be consumed in the Day-Ahead Market only	Existing	SIBR
EDAM- BRQ- 11022	 Inter-SC Trades shall not apply to EDAM EDAM Entity SC, EDAM LSE SC EDAM Resource SC and other SCs in the Extended Day-Ahead Market may not submit Inter-SC Trades for transactions outside the CAISO BAA, and Section 28 will not apply to the Extended Day Ahead Market Notes: Market will continue support Inter-SC trades in CAISO BAA This rule is consistent with the EDAM tariff; however, the prohibition remains under review and may be removed from the tariff prior to implementation. 	Core	SIBR



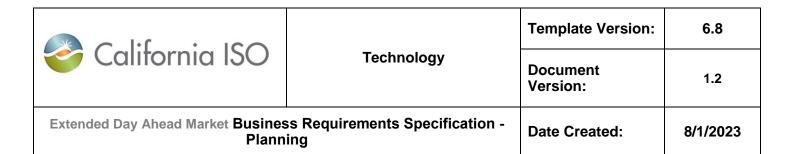
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 11030	Extend energy and commitment bidding rules found in DAME for supply resource hourly bids and/or Self-Schedule (SS) to EDAM	Core DAME	SIBR
	Note: For the determination of Proxy Start-Up Costs, Proxy Transition Cost and Proxy Minimum Load Costs (and associated Default and Reasonableness Threshold values), the CAISO will utilize the Market Services Charge and System Operations Charge reflected in the EDAM Administrative Charge defined in MF		
EDAM- BRQ- 11040	Extend ISO DAME rules for eligible resources to submit resource DAM hourly IR/RC bids to EDAM	Core DAME	SIBR
EDAM- BRQ- 11050	Extend Resource SC of ISO to submit hourly Energy, IR/RC bids for Dynamic and Pseudo-tie resources to EDAM	Core DAME	SIBR
EDAM- BRQ-	Include ISO Scheduling Point (SP) associated to non-EDAM DGAP in Transaction ID	Core	SIBR
11054	 Access MF defined eligible SP for ISO and SP to DGAP association. The SP has one-on-one association with DGAP or SDGAP for Transaction ID. 		
	Access MF defined DGAP-TIE, SDGAP-TIE mapping		
	Access MF defined TIE-ITC mapping		
	 Allow SC to submit transaction ID applicable attributes for import/export between ISO and non- EDAM BAAs, same as current process. 		
	 The transaction ID attributes include the location (DGAP/SDGAP/Cnode), 		
	 Pick the intertie that is associated with the SP that the transaction ID resource is schedule on 		
	 Intertie Transactions for import/export schedules at CISO Scheduling Points from/to non-EDAM BAAs in DAM will specify the DGAP of the source/sink non- EDAM BAA 		



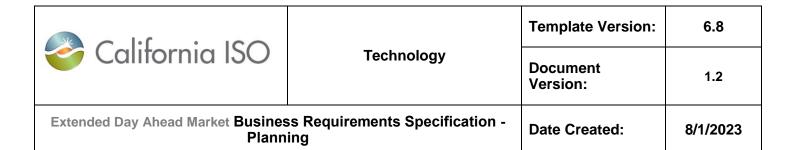
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Support ISO transaction ID associated to non-EIM BAA DGAP in RTM	Core	SIBR
11054a	 Intertie Transactions for import/export schedules at CISO Scheduling Points from/to non-EIM BAAs in RTM will specify the DGAP of the source/sink non- EIM BAA 		
EDAM- BRQ-	Support Transaction ID for EDAM intertie import/export resource between EDAM BAA and Non-EDAM BAA	Core	SIBR
11055	 Allow EDAM SC to submit attributes to form transaction ID as import/export between EDAM BAA and non-EDAM BAAs 		
	 Same as ISO intertie transaction ID, attributes include: SCID, Location ID, SP, Direction, bid type, intertie ID, Energy Type, PSE 		
	 Extending rule for ISO transaction ID to EDAM transaction ID- 		
	The transaction ID that include the SP with association to non-EDAM DGAP or Super DGAP (SDGAP) will use DGAP or SDGAP as injection location in the market		
	For the transaction ID for which the non-EDAM BAA is WEIM BAA, WEIM BAA shall register mirror resource in MF and submit the Mirror schedule base schedule in RTM		
	Support for new System Resources or Intertie Transactions for import/export schedules at EDAM interties from/to non-EDAM BAAs in DAM at the source/sink BAA		
	Existing System Resources and support for Intertie Transactions for import/export schedules at EIM interties from/to non-EIM BAAs in RTM at the source/sink BAA DGAP will be preserved		
EDAM- BRQ-	Not support transaction ID between EDAM BAAs, between WEIM BAAs	, between Core DAM	
11055a	 No support for System Resources or Intertie Transactions for import/export schedules at CISO Scheduling Points from/to EDAM BAAs in DAM; EDAM Transfers will be used instead 		



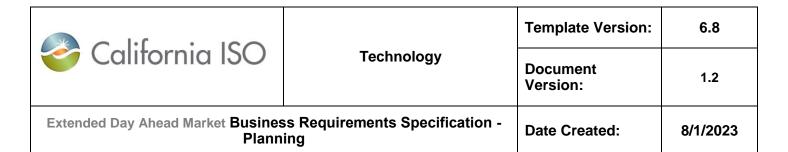
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	No support for System Resources or Intertie Transactions for import/export schedules at CISO Scheduling Points from/to EIM BAAs in RTM; Dynamic Transfers will be used instead		
EDAM- BRQ-	WEIM entity shall submit base schedule as mirror for DA schedule with EDAM BAA	Core	BSAP
11058	WEIM BAA shall submit base schedule Mirror		
	 Any DA import/export schedule from/to an EIM BAA to/from an EDAM BAA must be mirrored in the WEIM with an export/import MSR at the same location (the EIM BAA DGAP). 		
	If a SDGAP is used, the schedule must be bought back in RTM and replaced with one where the source/sink BAA		
EDAM- BRQ- 11058a	Auto-MSR shall auto-mirror all the DA schedules that have same DGAP-SP-Tie	Core	BSAP, RTBS
	For Auto-MRS shall match the total energy schedule of the system resources at same DGAP-SP-tie as MSR, include SR defined in MF or Transaction defined in SIBR, and not associated with other MSR that submitted by WEIM entity.		
	Note: see EDAM-BRQ-16016		
EDAM- BRQ- 11059	For the DA schedule using SDGAP, enforce buy back in RTM For the DA schedule between EDAM BAA and non-EDAM BAA that use SDGAP, the schedule must be bought back in RTM	Core	SIBR
	Set the DA schedule at 0 in RTM		
	The SC of the DA schedule can replace by submitting self-schedule where the source/sink at BAA actual location using DGAP		
	Note: Market Operations BPM will include SDGAP DA schedule related rule		
EDAM- BRQ-	Support EDAM system resource (SR) self-schedule Energy, continue to support ISO intertie SR bids	Core	SIBR
11060	 Continue existing energy economic bids or self- schedule at ISO interties between the ISO BAA and non-EDAM BAAs 		



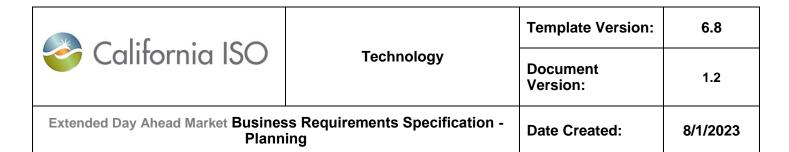
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Allow EDAM resource SC to submit self-scheduled energy for import/export resource, include transaction ID resource between EDAM BAA and non-EDAM BAAs		
	 Self-schedule import/export with RSE flag will be counted in DA-RSE 		
	 Import/export resource must be defined in MF with RSE flag 		
	Other self-schedule import/export, without RSE flag defined in MF, will not counted be in RSE		
	Transaction ID shall not be RSE eligible		
EDAM- BRQ-	Allow eligible EDAM OATT network resource economic bids for energy, IRU/IRD, RCU/RCD	Core	SIBR
11070	 Access EDAM BAA's network resource under OATT defined in MF as TG), RSE flag and eligibility flags from MF 		
	 Allow resource submitted economic bids for energy, IRU/IDR, RCU/RCD if eligible 		
	OATT network resource with RSE flag shall be counted in DA-RSE		
EDAM- BRQ-	Support EDAM MF defined system resource (SR) as eligible resource self-provision AS	Core	SIBR
11080	 Continue ISO existing AS economic bids or self- provision AS at ISO intertie between the ISO BAA and non-EDAM BAAs 		
	 Allow EDAM resources to submit self-provision for AS for import/export resource between EDAM BAA and non-EDAM BAAs. Only MF defined resources and TG resources that are eligible for AS can submit self- provision AS. Only AS self-provision is allowed, no AS economic bid for other non-ISO EDAM BAAs. 		
EDAM- BRQ-	Support eligible ISO intertie system resource economic bids for IRU/IRD, RCU/RCD	Core	SIBR
11090	 Allow MF defined eligible system resources between ISO and non-EDAM BAAs submit IRU/IRD and/or RCU/RCD economic bids 		
	 Transaction ID resource is not eligible for IRU/IRD, RCU/RCD 		



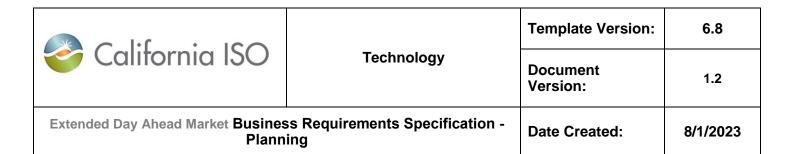
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Do not allow self-schedule for IRU/IRD, RCU/RCD		
EDAM- BRQ- 11092	Support eligible EDAM BAA network resource economic bids Allow MF defined network resource (modeled as TG) between other EDAM BAA and non-EDAM BAA that are eligible for IRU/IRD, RCU/RCD to submit economic bids	Core	SIBR
EDAM- BRQ- 11099	System shall consume Resource maximum GHG bid adders	Core	SIBR
EDAM- BRQ- 11100	 GHG Bid submission and validation Allow Resources outside of the GHG area to submit separate GHG hourly bids (≥0) for each GHG regulation area GHG pseudo-tie shall not submit GHG bids for the area it is pseudo-tie to. They can submit GHG bid for other GHG area Energy bid range must be equal to or exceed the GHG bid MW 	Core	SIBR
EDAM- BRQ- 11101	Maximum GHG Bid Adder	Core	SIBR
EDAM- BRQ- 11102	Por each GHG bid for each GHG area: the sum of the GHG Bid Adder price and the Energy Bid price may not exceed the Soft Energy Bid Cap, unless the sum of a resource's maximum GHG bid adder and revised Default Energy Bid exceeds the Soft Energy Bid Cap In this case, the sum of a resource's GHG Bid Adder and Energy Bid price may not exceed the sum of the maximum GHG bid adder and the resource's revised Default Energy Bid or the Hard Energy Bid Cap, whichever is lower A revised default energy bid is the result of a manual (via Internal ISO System) or automated (via SIBR) reference level change request	Core	SIBR



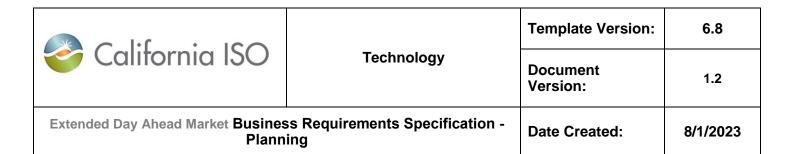
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	This supersedes the existing rule that the sum of the EIM GHG bid adder and energy bid may not exceed the soft offer cap		
	This is a validation rule (bid becomes invalid when limit is exceeded), not a capping rule		
	For all examples below:		
	-Soft offer cap=\$1000		
	Hard offer cap=\$2000		
	-Resource has maximum GHG bid cap of \$30 to serve load in CA		
	-Resource has maximum GHG bid cap of \$50 to serve load in WA		
	Example 1 - No reference level change request submitted:		
	If resource submits a bid for only CA, the energy bid is limited to \$970. If the resource submits a bid for CA and WA or only WA, the energy bid is limited to \$950.		
	Example 2: Resource submits revised DEB of \$1200:		
	If resource submits a bid for only CA, the energy bid is limited to \$1200.		
	Example 3: Resource submits revised DEB of \$1990:		
	If resource submits a bid for only CA, the energy bid is limited to \$1970.		
EDAM-	Broadcast resource GHG bids	Core	SIBR
BRQ- 11103	 Broadcast resource GHG bids for each GHG regulation area as a part of clean bid 		
EDAM- BRQ- 11106	Broadcast All CRN MW Entitlements System shall broadcast all CRN MW entitlements with their respective self-schedules at CRN granularity (either parent or sub) after Day-Ahead and Real-Time Market close	Core	SIBR
	01 CRN entitlement limits associate with 1 self- schedule		



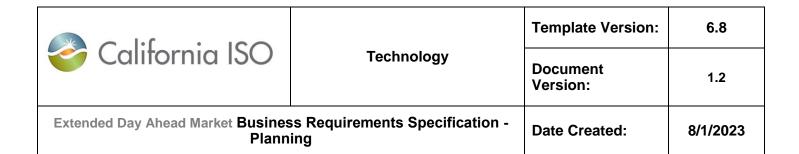
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 11110	Resource to submit bids to support DA RSE Resource SC shall submit updated bids or self-schedule to support DA RSE between 6 am to 10 am Note: Allow all RSE resource energy bids or self-schedule counted in RSE Allow all RSE resource IRU/IRD bids counted in RSE	Core	SIBR
EDAM- BRQ- 11112	Broadcast updated resource bids to support advisory and binding RSE between 6 am and 10 am • SIBR broadcast all resource available bids at least every 30 minutes between 6 am and 10 am to support DA-RSE	Core	SIBR
EDAM- BRQ- 11120	 Consume Resource Convergence bids (CB) Access MF EDAM CB option Allow SC to submit resource convergence bids (CB) for the BAA that option-in CB, (currently only ISO) The CB bids are subject to suspension or limitation 	Core	SIBR
EDAM- BRQ- 11130	 EDAM entity shall submit AS requirements: EDAM entity SC shall submit AS (Regulation Up/Down, Spin/NSpin) requirements of EDAM BAA System shall continue to use ASRS (AS requirement setter) for ISO AS requirements 	Core	SIBR AIM
EDAM- BRQ- 11140	Support dynamically created DA TSR resource ID to support new CRN sale • Allow EDAM entity to submit TSR attribute to form dynamic transfer resource ID (TSR), system will create the paired TSR automatically • Path: From BAA, intertie, to BAA, E/I from eligible BAA, path defined in MF • Same SC of CRN for both TSRs Note: Dynamically created TSRs are to support the dynamically created new CRN for the sales of transmission rights	Core	SIBR
EDAM- BRQ- 11150	Allow EDAM entity to submit TSR hourly limits Access MF defined TSR with attributes: CRN, RSE flag	Core	SIBR



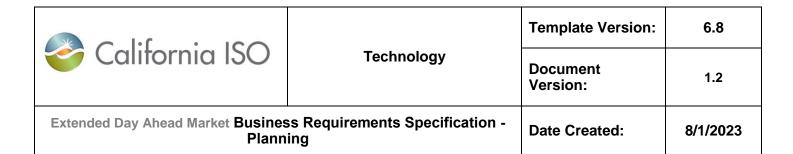
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Allow EDAM entity SC of designated TSR to submit hourly limit for trading day and up to 7 days in advance, paired TSR will have the same limit with different direction 		
	 Allow both EDAM entities of TSR to submit limit, system will use min of both 		
	 Allow the both EDAM entities to access through API/UI the TSR scheduling limit 		
EDAM- BRQ-	Allow EDAM entity to submit TSR with RSE eligible Ancillary Services (AS) self-provision	Core	SIBR
11150a	 For the TSR RSE eligible resources, allow EDAM entity to submit self-provision for Reg Up, Reg Down, Spin, Non-Spin, same as for other system resource 		
EDAM- BRQ-	Transmission customer SC shall submit self-schedule (SS) before DAM close at 10 am for DA TSR with CRN	Core	SIBR
11170	TSR with CRN shall only be for energy		
	SC shall submit valid self-schedule energy for TSR with CRN TOR/ETC/OATT 1/OATT 2 no later than 10 am		
	The existing validation and treatment in market and Settlements for TOR/ETC/OATT 1/OATT 2 CRNs are applicable:		
	 Must be valid, balanced and not higher than the CRN entitlement 		
	 If the validation fails, all self-schedules under that CRN will be converted to regular price-taker (PT) self- schedules with no higher scheduling priority and any financial rights will be voided 		
EDAM- BRQ-	For SC released capacity for TSR with CRN by 9 am, system shall deem it pathway 2.	Core	SIBR
11172	 Transmission customer SC shall submit in SIBR to release a portion of or whole capacity of TSR with CRN no later than 9 am 		
	 System shall validate the released capacity plus the self-schedule to not exceed CRN, and deem the TSR of the released capacity as pathway 2 		
	 After 9 am, do not allow SC to self-schedule on pathway 2 released capacity in DAM and RTM. 		



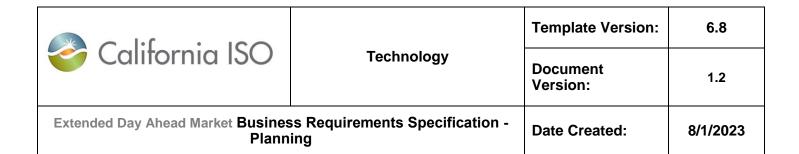
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted	
	Include pathway 2 as part of clean bid attribute			
EDAM- BRQ-	If SC released capacity for TSR with CRN after 9 am, system shall not mark the capacity	Process	SIBR	
11174	 For SC submission in SIBR to release amount of capacity for TSR with CRN after 9 am but not self- scheduled (SS), System shall not mark the capacity. The capacity released after 9 am is not pathway 2. 			
EDAM- BRQ- 11176	EDAM entity shall submit late self-schedule in RTM on behalf of transmission customer SC for TSR with CRN capacity that is not pathway 2	Core	RTSI	
	 After 10 am and before the trading hour RTM closes, EDAM entity SC shall submit SS through RTSI in RTM, allow transmission customer to late schedule the TSR capacity that has not been released 			
	Notes:			
	Only EDAM entity SC can submit the TSR with CRN late self-schedule into the RTM, Transmission customer SC must communicate late schedule with EDAM entity			
	The RTM will accommodate the transmission rights for the TSR with CRN SS and late SS in the same manner, the TSR with CRN late SS will have equal priority to cleared Day-ahead Schedules.			
EDAM-	EDAM entity shall submit DA TSR limits as unsold ATC	Core	SIBR	
BRQ- 11180	EDAM entity submits TSR capacity for unsold ATC capacity	Process		
	Note: EDAM entity will use its own TSR to count the unused CRN capacity— portion or all up to on EDAM entity discretion			
	Entity will submit late self-scheduled TSR with CRN through RTSI on behalf of CRN owner (EDAM-BRQ-11176)			
EDAM-	Broadcast DA TSR pathway 2 and limits after DAM closes	Core	SIBR	
BRQ- 11190	 System shall broadcast SIBR submitted TSR, limit, and pathway 2 to the EDAM entities—both the from BAA and the to BAA 			
	Note: The RSE eligible TSR limit and the TSR with CRN self-schedule are counted in RSE.			



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 11210	Resource energy and capacity bid into IFM must bid in RCU/RCD; the economic energy bid must cover the range of capacity bids	Core DAME	SIBR
	For resources in EDAM:		
	 For all supply resource, except VER, energy and capacity bid into the IFM is also bid into the RCU/RCD 		
	 The economic energy bids shall cover the bid range of IRU/IRD and AS 		
	For ISO RA resource, MOO in RUC		
	Note: VER capacity extend to forecast in RUC for RCU, VER capacity extend to forecast in RSE		
EDAM-	RTM must offer obligation (MOO) for EDAM awards	Core	SIBR
BRQ- 11220	 All Energy, AS, imbalance reserve and reliability capacity awards in the EDAM have a must offer obligation in the WEIM in RTM, must bid energy to cover the awards range 	DAME	
	 If resource does not bid EDAM, award in RTM 		
	 DAM energy award will be self-scheduled minus IRD minus RCD 		
	 Extend the DEB to cover the range of AS and IR and RC awards 		
	Ex: IFM EN=50 MW, IRU=10MW, IRD=10MW,		
	RTM: SS 40 MW, bids for 40 MW to 60 MW		
EDAM- BRQ-	Treat DA Energy TSR awards same as base transfer in WEIM	Process	SIBR
11222	No bid insertion for DA TSR		
	 DA energy TSR awards are modeled same as base transfer in RTM 		
	 The DA TSR capacity awards for IRU/IRD, RCU/RCD are not relevant to WEIM 		
	Note: Any adjustment is via ITS tag in RT		
EDAM-	EDAM entity shall not submit base schedules in WEIM	Core	BSAP
BRQ- 11230	An EDAM Entity will not submit WEIM Base Schedules. Instead, the Day-Ahead Schedules for the EDAM Entity Balancing Authority Area will be used for the WEIM Entity Balancing Authority Area in the Real-Time Market		



ID#	Busine	ess Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-		entity shall create a new CRN to represent each / 9 am in DAM and TH-90min in RTM	Core	SIBR
11250	•	EDAM Entity SC shall submit a transient contract definition (CRN) that represents a Transmission Service Provider (TSP) selling its rights in DAM by 9 am and RTM by TH-90 min		
		 Each individual sale will be defined as a different unique CRN 		
		 The system will not validate the CRN, the TSPs and EDAM Entities ensure to accurately submit this information 		
EDAM-		entity submitted CRN for each sale must define	Core	SIBR
BRQ- 11260		RN attributes: Unique CRN identifier (with Start/End dates)		AIM
	2.	Type: TOR/ETC/OATT 1/OATT 2		
	3.	Physical Right Y/N indicator: Y allows higher priority (TOR/ETC/OATT1 /OATT 2) self-schedules		
	4.	Financial Right Y/N indicator: Y provides a hedge for marginal congestion and/or losses		
	5.	Entitlement: the maximum volume of transmission rights (this may be an hourly vector)		
	6.	Expiration Time: the last time the contract can be exercised (DAM, HASP, T-20)		
	7.	List of associated supply/demand resource identifiers (multiple sources and sinks) and their corresponding contract capacity; they can be registered to different SCs; all sources must reside in the same BAA in the market footprint; all sinks must reside in the same BAA in the market footprint (it can be a different BAA than the one with the sources); if the sources and sinks reside in different BAAs, the contract must also specify intermediate TSR identifiers for a transfer (or a chain of transfers) between these BAAs (and intermediate BAAs in the market footprint);		
	8.	Optionally, a single financial source and a single financial sink (PNode or APNode) to be used for the financial right instead of the relevant source/sink resource locations; any transfer revenue across TSRs is always handled separately; the TSRs are always		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	intermediate financial locations and there is no need to explicitly define them as such 9. A single Financial SC to receive the financial right if		
	multiple SCs exercise the contract.		
EDAM- BRQ- 11270	SC of associated resource shall submit Self-schedule associated with the corresponding CRN in the same manner as normal CRN:	Existing	SIBR
	Treat each CRN as an independent CRN, existing CRN function in DAM and RTM are applicable:		
	 The contract can be exercised by SC submitting balanced self-schedules for associated resources that do not exceed the individual contract capacities, and in aggregate the entitlement. 		
	 If the high priority self-schedules are not balanced (in DAM) or they violate the entitlement, they are converted to regular (PT) self-schedules (the financial right still applies to the balanced portion in settlements) 		
	 In RTM, there are no load schedules, thus load meters are used instead 		
	 For transit CRNs, it is the responsibility of the SC(s) to exercise the contract within its applicable entitlement, reflect derate 		
	 Specifically and only for TSRs, unused entitlement (above any submitted self-schedules) can be released to the market; 		
	Note: See Appendix A7: Transmission Right sales example		
EDAM- BRQ- 11280	SIBR will consider resource Pmin for Flexible RA capacity	Core	SIBR
EDAM- BRQ-	EDAM entity to activate hourly Net export transfer out constraint, CF, and RM	Core	SIBR
11290	EDAM entities activate the constraint for selected hours of the day, and submit		
	Confidence Factor (CF) (between 0 to 1))Hourly Reliability Margin (RM)		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	SIBR to report on the EDAM entity submitted hourly net export transfer out constraint, CF, and RM	Core	SIBR
11291	Hourly Net export transfer out constraint Status		
	Confidence Factor (CF) (between 0 to 1))		
	Hourly Reliability Margin (RM)		
EDAM- BRQ- 11295	Allow EDAM Entity to access to resources and intertie submitted bids for RSE in the BAA	Core	SIBR
	 Entity will have access to individual resource submitted clean bids, without pricing information, associated with the EDAM Resources within the Balancing Authority Area it represents and at EDAM Interties with other Balancing Authority Areas 		
	 The entity is able to see the bid capacity data per hour, for example if the SC bids 0-320 using a 10 bid segment, the entity would see 320MW bid capacity from the resource 		

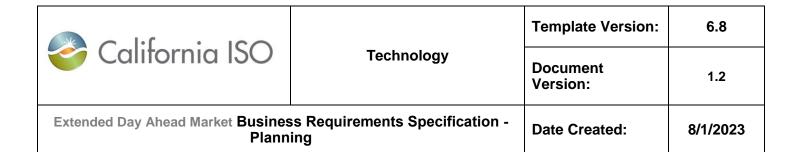
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5.6 Business Process: Manage DAM Resource Sufficiency Evaluation (DA-RSE)

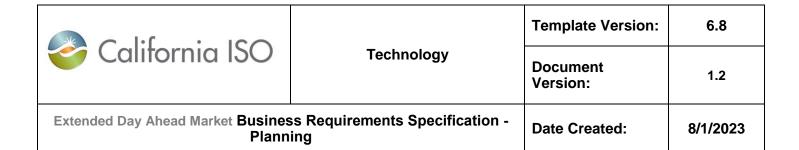
- Consume hourly Histogram and second-order polynomial coefficients for IRU/IRD
- Calculate/broadcast every 30 min, between 6 and 9 am, the hourly IRU/IRD requirements based on the latest forecasts
- Adjust each EDAM BAA's IRU/IRD Requirements according to the operator specified diversity benefit (DB)
- Adjust and broadcast each EDAM BAA's hourly requirements by RSE eligible transfer limits from sink to source BAA
- Every 30 minutes (timeframe is configurable), run DA-RSE optimization using the latest bids and without transmission constraints. Use penalty cost for IRU/IRD in RSE
- Manage DA-RSE Inputs: use 9 am forecasts and requirements, use 10 am bids for 10 am binding DA-RSE
- Identify the hourly results of success or fail and deficiency of the DA-RSE for each EDAM BAA
- Broadcast DA-RSE hourly results for each EDAM BAA and resource

5.6.1 Business Requirements

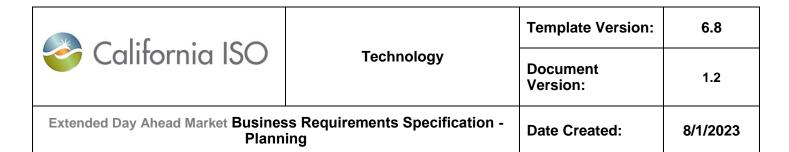
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Access Master file definition and association for EDAM:	Core	DAM
BRQ- 12008	 Resource RSE flag for DA-RSE 		DA-RSE
	 DA TSR, RSE, associated flags, contract number (CRN) and limits 		(from MF)
	 GHG regulation area for DAM and RTM and resource association, GHG clap split on state boundary, GHG bids option flag of EDAM BAA, GHG pseudo-tie flag, and resources that are dynamically scheduled into a BAA that overlaps with a GHG regulation area 		
	BAA AET options		
EDAM-	Consume TD hourly Histogram and the second-order polynomial coefficients for each EDAM BAA and EDAM	Core	DAM
BRQ- 12011	footprint from Internal System	DAME	DA-RSE
	Note: data include: the High/low Percentile hourly forecast uncertainty histogram for net demand/demand/solar/wind		
	 The second-order polynomial coefficients of the High/low Percentile quadratic quantile regression of hourly forecast uncertainty for demand/solar/wind/Mosaic (net load) 		



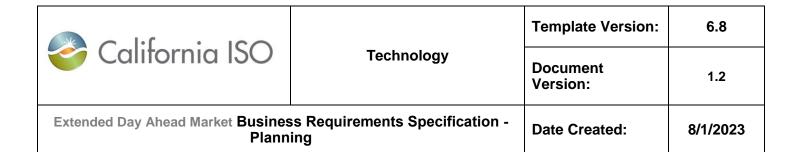
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 The hourly High/low Percentile Threshold forecast uncertainty histogram for net demand 		
	 Threshold value of IRU and IRD requirements 		
EDAM- BRQ- 12016	 Market will receive the LF from ALFS, the LF will include DR adjustment (e.g., DR Performance Factor), if applicable LF will be the same in DA-RSE and RUC 	Existing	DAM DA-RSE
EDAM- BRQ- 12016 D	Calculate hourly IRU/IRD requirements for each EDAM BAA and EDAM footprint Calculate the hourly IRU/IRD requirements (IRUR/IRDR) between 6 am and 9 am, approximately every 30 minutes, using parameters and latest forecasts	Core	DAM DA-RSE
	Bound the hourly IRUR/IRDR by the thresholds consumed from Internal ISO System		
	 Broadcast DAM the original IRU requirement (IRUR₆₀) and IRD requirement (IRDR₆₀) for each Trading Hour of the next Trading Day, for each EDAM BAA and EDAM Area 		
	Notes		
	DA-RSE will use the adjusted IRU/IRD Requirements with Diversity Benefit. The market will publish the original requirement		
EDAM- BRQ- 12017	The DA-RSE will automatically run approximately every 30 minutes between 6AM and 9:30AM with the latest consumed dataset.	Core	DAM DA-RSE
EDAM- BRQ- 12020	After configurable 9:30 (approximate) RSE run the DA-RSE can be manually run using the latest consumed dataset.	Core	DAM DA-RSE
EDAM- BRQ- 12023	Extend to EDAM Calculate hourly IRU/IRD requirements for EDAM BAA for every RSE run - Calculate the hourly IRU/IRD requirements (IRUR/IRDR) with every DA RSE run	Core DAME	DAM DA-RSE



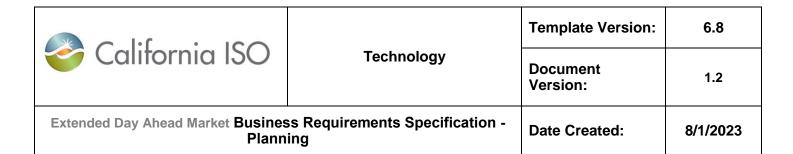
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Calculate IRUR/IRDR for gen-only BAA using same method that incorporate the Variable resource uncertainty only 		
	Bound the hourly IRUR/IRDR by the thresholds consumed from Internal ISO System		
EDAM- BRQ-	Adjust each EDAM BAA's IRU/IRD Requirements according to diversity benefit (DB) operator specified portion	Core	DAM DA-RSE
12025	Calculate Diversity Benefit as difference between sum of individual BAA IRU/IRD requirement and requirement of entire EDAM footprint		
	 Specify configurable parameters to specify portion of diversity benefit of IRU/IRD requirement, apply the IRU/IRD requirements in RSE and IFM for EDAM BAAs 		
	 Include diversity benefit that pro-rata allocated according to original requirement, for each EDAM BAA. Display forecasted/adjusted IRUR, IRDR, DB 		
EDAM- BRQ- 12030 a	Include TSR with CRN Self-schedule in RSE The TSR associated with CRN that self-scheduled energy shall be included for DA RSE	Core	DAM DA-RSE
EDAM-	Include RSE eligible TSR AS self-provision and TSR limits from sink to source BAA in DA_RSE optimization	Core	DAM
BRQ- 12040	 Receive MF defined maximum capacity (Pmax) for the TSRs and the RSE eligibility flag Receive EDAM entity submitted bid Capacity Limit (CL), which is the released transfer capacity to the market Receive EDAM entity submitted self-provision of RU/RD/SR/NR T_{j,t} (RD) T_{j,t} (TSR) T_{j,t} (TSR) on TSR, just like any other resource 		DA-RSE
	 TSR remaining capacity T_{j,t}^(RSE) under CL after AS self-provision will be used by RSE for optimized meeting of the requirement for energy and imbalance reserves The TSR AS self-provision are placed on the right side of the constraint to reduce the AS requirement from sink BAA and to increase requirement to the source BAA 		
	 Self-provision TSR regulation down (RD) shall have energy to support, therefore, the RD TSR will be added in the right side of energy and IR constraints 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	RSE remaining capacity is placed on the right side of the constraint to reduce the sum of energy and imbalance reserve requirement from sink BAA and to increase the requirement to the source BAA, plus the RD TSR		
	Use one upward / one downward relax variable for the BAA Energy and imbalance reserve		
	Note: Any remaining capacity under the CL will be used by the RSE, and later by the IFM, for energy/IR co-optimization. Any remaining capacity can then be used in RUC for RCU. A TSR can have all commodities.		
EDAM-	Activate load modification by Demand Response in RSE	Core	DAM
BRQ- 12050	For PDR, RDRR, use resource RSE eligible flag to determine if it counted in RSE, same as other supply resource		DA-RSE
	For demand response are NOT modeled as DAM supply resource (PDR,DDR) in the market, allow EDAM entity to submit the load adjustment (through ALFS, same as in WEIM, subject to attestation)		
EDAM- BRQ-	Support multiple forecast zones in a EDAM BAA same as WEIM	Core	DAM DA-RSE
12060	 Support multiple forecast zones in a EDAM BAA same as WEIM 		3711102
	DA-RSE is on EDAM BAA level		
EDAM- BRQ-	Set configuration and execution control for day ahead resource sufficiency evaluation (DA-RSE)	Core	DAM
12070	System shall configure the run time, currently, run advisory DA-RSE every 30 minutes between 6 am and 10 am for each EDAM BAA, run binding RSE after DAM closed at 10am		DA-RSE
	System shall provide operation execution control, option to manually or automatic perform the DA-RSE,		
	 Configure the timing of Automatic execution of DA- RSE, default is every 30 minutes, starting at first advisory run 6 am, ending at 10 am for binding run 		
	 The DA-RSE will automatically run approximately every 30 minutes between 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	6AM and 9:30AM with the latest consumed dataset Allow manual run the DA-RSE using the latest consumed dataset for 10 am binding DA-RSE		
EDAM-	Run DA-RSE optimization without network	Core	DAM
BRQ- 12080	Use same optimization model used in IFM with following settings:		DA-RSE
	 Objective function is to minimize the all surplus variables for each EDAM BAA i.e., all requirements (demand forecast, ancillary services, and uncertainty) to be satisfied 		
	 No NA: Exclude transmission related constraints, therefore nor need network application (NA) power flow. 		
	 Enforce all scheduling constraint for DA RSE: ITC/ISL/ACC/gas nomogram 		
	 Balance each EDAM BAA supply with the adjusted forecast demand and IRU/IRD requirements, and AS requirements. (note: adjust the requirements by counting the RSE eligible capacity and Diversity Benefit) 		
	 VER capacity extend to forecast in RSE in whole EDAM footprint 		
	 Optimize EDAM trading day 24 hours with all other constraints, including resource inter-tempo constraints. 		
	Note: Virtual bids are not eligible for RSE		
EDAM-	Run DA-RSE optimization for EDAM BAA in EDAM footprint	Core	DAM
BRQ- 12090	 Run DA-RSE optimization for entire (TBD: or each BAA) EDAM footprint by market operator 		DA-RSE
	 Not allow the economic transfer between the EDAM BAAs. RSE eligible transfer is preprocessed to move the requirement from sink BAA to source BAA 		
	 Model each individual BAA constraints for the power balance constraint to meet the demand forecast and meet the AS and IRU/IRD requirements by BAA 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 12110	Use penalty price for IRU/IRD in RSE Replace the IRU/IRD demand curve with a configurable penalty price at the prevailing energy bid ceiling in RSE optimization • Define one penalty price for IRU, one penalty price for IRD, apply to all EDAM BAAs Note: to prevent the economic relaxation of IR requirement in RSE	Core	DAM DA-RSE
EDAM- BRQ- 12150	Recognize the resources with RSE flag, or with CRN that self-scheduled to count towards DA-RSE • For all EDAM BAAs, the resource defined in MF with RSE eligible flag, count the resource bid range or self-schedule • In addition, for ISO, include bids range system resources (between ISO and non-EDAM BAAs) with RSE flag, • Include TG resource that include dynamic resource, network resource and pseudo-tie with RSE flag • For VER (with RSE flag in MF) in ISO and EDAM BAAs, use forecast as bid range. • Create default supply bids if no bid or extend bid-in bids for the difference between the bid-in and forecast quantity for use in the DA-RSE • TSR with CRN that self-scheduled (SS) shall count toward RSE	Core	DAM DA-RSE
EDAM- BRQ- 12160	 The resources shall not count towards DA-RSE No Convergence bids (CB) for RSE No load resource bids, use demand forecast No transaction ID unless it with CRN SS No optimizable TSR transfer (Implementation detail if we move requirement or SS) 	Process	DAM DA-RSE
EDAM- BRQ- 12170	Include PT export, PT wheeling through ISO with non-EDAM BAA in RSE • PT export must have RSE flag (MF) • PT wheel only model the wheel through ISO with non-EDAM BAA, include RSE for both PT import/Export (MF) Notes: EDAM entities seeking to utilize supply that wheels through the ISO system to support their RSE demonstrations would acquire high wheeling through scheduling priority across the ISO system to bring RSE eligible transmission to the EDAM BAA	Core	DAM DA-RSE

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	EDAM with PT wheeling will have RSE import and RSE export		
EDAM- BRQ- 12180	 Identify the BAA the hourly results of success or fail DARSE RSE will evaluate every constraint listed below if it is relaxed for every BAA for every hour on the horizon. Energy Demand and IRU/IRD requirements constraint, up/down AS procurement constraints The DA-RSE for the BAA is deemed as success if no constraint is relaxed (the surplus variables have positive values)for the hour The DA-RSE for the BAA is deemed as failure if any requirement constraint is relaxed for the hour Calculate the each deficiency (deficiency of energy, IR, AS, upper/down), upper and down separately for each hour 	Core	DAM DA-RSE
EDAM- BRQ- 12030	 Report DA RSE requirement movement between EDAM BAAs The RSE use RSE eligible TSR limit and TSR associate with CRN that self-scheduled to move the requirement between BAAs, from sink BAA to source BAA effectively by Energy Demand & IR up/down, AS Display the table of requirement movement between BAAs to support bilateral outside trade every 30 minute between 6 am and 10 am by the transfer capacity for energy and IR, by the self-provision of AS transfer Note: The RSE requirement movement between BAAs will be reported on OASIS 	Core	DA-RSE

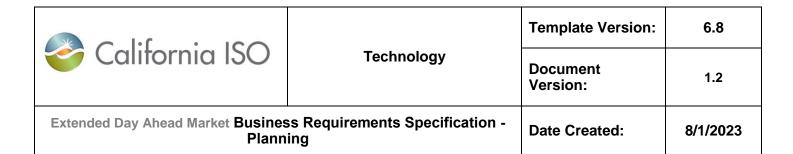
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5.7 Business Process: Manage DAM (MPM, IFM)

- Accommodate disruption of EDAM BAAs in EDAM
- Consume EDAM entity activated transmission constraints for EDAM BAA from WebOMS
- Extend the DAM local market power mitigation (LMPM) for energy and IRU to each EDAM BAA—DAME
- Co-optimize energy supply/demand, CB, AS, IRU/IRD across the EDAM footprint
- Model EDAM Transfer resource TSR limits—allow TSR transfer energy, AS, IRU/IRD
- Enforce net transfer out limit
- Do not allow simultaneous relaxation of the PBC, IRU/IRD deployment, RCU/RCD and a net export transfer above resource eligible energy exported transfers
- Calculate/broadcast EDAM resource awards and LMPs

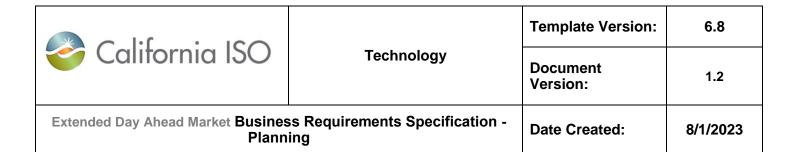
5.7.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Consume EDAM entity submitted status of activated/deactivated constraints for EDAM BAA:	Core	DAM
13020	 Get the constraint default status from FNM build for the BAAs participating in EDAM 		(WebOMS) (SIBR)
	 Consume EDAM entity update to the status of constraint from WebOMS, override the RTM constraint status in DAM 		
	 Flowgate and nomogram constraints for EDAM entities 		
	 Contingencies 		
	 Transmission conformance (flowgate limit change) 		
	 Consume net export transfer out constraint— EDAM entities activated the net export transfer out constraint for selected hours of the day and corresponding CF and RM from SIBR 		
EDAM-	Distribute IRUR/IRDR to EDAM load and VER nodes	Core	DAM
BRQ- 13030	 Use same IRUR/IRDR at 9 am calculated in DA-RSE 	DAME	
	 Calculate the IRU/IRD requirement allocation factors (AF) to demand, solar, and wind for each hour of the trading day for EDAM BAA based on high/low percentile of demand/solar/wind forecast uncertainty 		

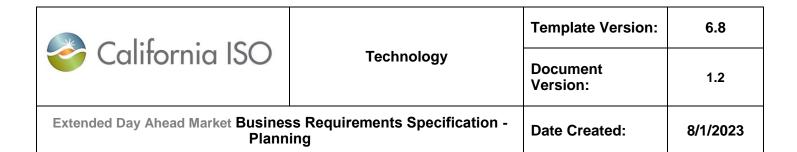


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Distribute the IRUR/IRDR to demand nodes superimposed on the load schedule 		
	 Calculate solar and wind Distribution Factors (DF) of each VER node proportional to the forecasts 		
	 Distribute the IRU/IRD requirement to VER nodes, superimposed on the VER schedule 		
EDAM- BRQ-	Apply IRU/ IRD demand price curve in optimization in MPM and IFM	DAME	MPM, IFM
13040	 By 10 am, consume the IRU and IRD demand price curves {Q_k, P_k, k = 1,2,, n} for each hour interval of the DAM market horizon for each EDAM BAA 		
	 Transform demand price curve to monotonically increasing price curve for surplus variables for IRU/IDR for each hour each BAA 		
	 Limit demand price curve by IRU/IRD cap prices 		
EDAM- BRQ-	Suspension of EDAM Entity Participation and Transitional Process:	Process	DAM
13050	Transitional protection:		
	 Pursuant to the terms of a Market Notice, temporarily suspend participation of that EDAM Entity in the Day-Ahead Market for a period not to exceed 60 days 		
	 The EDAM entity suspend from EDAM shall be suspend from the WEIM for the same suspension period 		
	 The EDAM entity that is suspended will not automatically fall back to NPM 		
	 The CAISO may continue operation of the Day-Ahead Market without the participation of the suspended EDAM Entity 		
EDAM- BRQ- 13052	Disruption of EDAM BAA, in similar way as WEIM	Core	DAM, RTM,
	 Enforce a net transfer constraint (lock TSR at RSE eligible (Lock RSE eligible TSRs) of the EDAM BAA of causing interruption, similar as for WEIM (downstream Settlements and price correction will be done based on administrative price and BAA contained). 		Settlements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Disruption for EDAM BAA by day, not by hour 		
	 ETSR shall remain locked until Operator changes status 		
	 EDAM resources continue to bid in the DAM 		
	 Reduce or suspend EDAM Transfers between one or more Balancing Authority Areas in the EDAM Area with authorization from the impacted EDAM Entity 		
	 Instruct one or more EDAM Entities to maintain system balance within their Balancing Authority Area without Day-Ahead Market result 		
	 Suspend or limit the ability of all Scheduling Coordinators to submit Virtual Bids or 		
	 Postpone the publication of Day-Ahead Market results 		
	 DAM Settlements is applicable to EDAM BAA that is in disruption 		
	 If the interruption of EDAM Entity participation results in the EDAM Entity not receiving a Day-Ahead Market Schedule then the EDAM Entity must submit all Bids to the RTM. 		
	 The ISO could also exercise this measure to interrupt its own participation in the EDAM by isolating its BAA from the rest of the EDAM footprint and running the day-ahead market within its own BAA separate from the rest of the EDAM footprint by locking TSRs (continue optimize the EDAM as whole, settle by LMP for CAISO and EDAM BAAs) 		
	 Separated BAA shall not fall back to NPM 		
	Note: The CAISO will develop the procedure for EDAM in the similar manner for WEIM		
EDAM-	Transitional pricing	Core	DAM
BRQ- 13054	Extend WEIM transitional pricing measures (to not apply certain transmission constraints and relax transmission and/or PBC constraint) in EDAM to the same six-month period following onboarding		



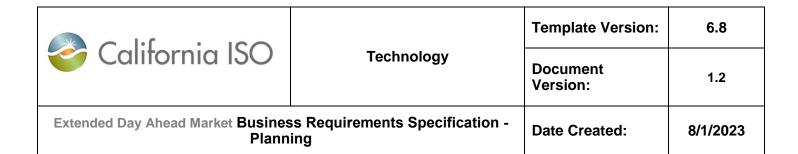
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 13060	Extend the DAM local market power mitigation (LMPM) for energy and IRU to each EDAM BAADAME Apply LMPM for energy bid by Including IRU and IRD deployment scenarios in DCPA counter flow calculation and Energy LMP calculation, use same reference bus as in WEIM for the EDAM BAA Apply LMPM for IRU bid by including IRU deployment scenarios in DCPA counter flow calculation and IRU nodal price calculation, broadcast mitigated bid	Core DAME	MPM
EDAM- BRQ- 13060a	 MPM for Energy at the EDAM BAA level–Trigger DCPA for PBC For each hour, evaluate the EDAM BAAs (non-CAISO BAA) After MPM-IFM run, compare the hourly Marginal Energy Cost (MEC) of each EDAM BAA with the CAISO BAA MEC If (EDAM BAA MEC > CAISO BAA MEC), the EDAM BAA is subject to PBC DCPA test. MEC is the shadow price of BAA power balance constraint (PBC) If (EDAM BAA MEC ≤CAISO BAA MEC), the EDAM BAA is not subject to PBC DCPA test 	Core	MPM
EDAM- BRQ- 13060b	MPM for Energy at the EDAM BAA level– DCPA for PBC For each hour, for the EDAM BAAs triggered for DCPA, evaluate if EDAM BAA PBC is an uncompetitive constraint, treat PBC as a binding constraint, use same DCPA calculation for residual supplier index (RSI) as for other binding constraints • If RSI <1, the EDAM BAA PBC deemed as uncompetitive constraint on hourly basis. Otherwise, the EDAM BAA PBC deemed competitive	Core	MPM
EDAM- BRQ- 13060c	Apply MPM for Energy at the BAA level-LMPM for EDAM resources Calculate competitive LMP with uncompetitive PBC: • For the EDAM BAAs have interval uncompetitive PBC, exclude uncompetitive MCC, exclude the differential between EDAM BAA MEC and CAISO MEC from nodal LMP for competitive LMP calculation for all price nodes in the EDAM BAA that apply LMPM in DAM and RTM.	Core	MPM



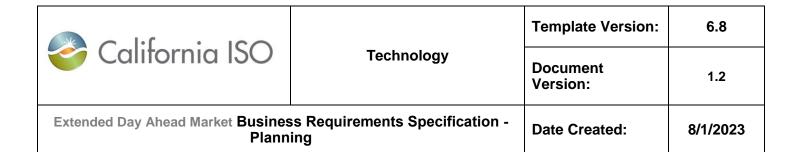
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 For the EDAM BAAs with competitive PBC, exclude uncompetitive MCC from nodal LMP for competitive LMP, same as currently for all price nodes in the EDAM BAA. 		
	 Bid mitigation: If uncompetitive component LMP_i^{NC} > Mitigation Threshold Price, the resource bid would be mitigated to the higher of the default energy bid (DEB) and its competitive LMP. The bid mitigation apply to all the resources that subject to LMPM. Only mitigate resources that have net positive contribution to the LMP 		
	Ex1: For hour h, EDAM BAA MEC is \$25, ISO MEC is \$20, do RSI, if RSI<1, EDAM BAA PBC is uncompetitive EDAM BAA nodal i competitive MCC is \$1. Calculate nodal i competitive LMP \$21. Mitigate every resource at nodal i in EDAM BAA that is higher than max (\$21, DEB)		
EDAM- BRQ-	Apply MPM for IRU at the BAA level, similar method as for Energy	Core	MPM
13060d	• Trigger for IRU DCPA: After MPM-IFM run, if the hourly Marginal IRU Cost (ρ_t) of each EDAM BAA > CAISO BAA ρ_t		
	• IRU DCPA: Same uncompetitive paths as $RSI_{m,t}^{(u)}$ <1		
	 Calculate Competitive IRUMP_{i,t} 		
	Exclude uncompetitive MCC and the differential between EDAM BAA (ρ_t) and ISO (ρ_t) from locational price of IRU		
	 Mitigate the resource IRU bid to the higher of the default IRU bid (DAB= \$55) and its competitive IRUMP_{i,t} 		
EDAM-	Include GHG constraint in LMPM	Core	MPM
BRQ- 13061	 Use the same GHG constraint in IFM and MPM, include resource GHG reference point (from GHG pass) in GHG constraint 		
	GHG bids are not subject to mitigation		
EDAM-	Extend storage DEB to EDAM storage resource	Core	IFM/RTM
BRQ- 13062	 Non-CAISO EDAM resources can now use the Storage DEB option in DAM and RTM 		

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	Co-optimization for Energy supply/demand, CB, AS, IRU/IRD across EDAM footprint	Core	IFM
13070	The IFM will optimally procure Energy, IRU/IRD across the EDAM footprint; AS for ISO, CB for opt-in BAAs, and GHG allocation with resource bids and network constraints:		
	 Set up PBC and IRU/IRD requirement constraints for each specific BAA, no EDAM footprint PBC constraint, use same requirements that include diversity benefit used in RSE 9 am run. 		
	 Enforce self-schedule energy, and self-provision of AS, do not enforce AS constraint for non-ISO EDAM BAAs 		
	Co-Optimize :		
	 Energy supply bids and demand bids, include system resource bids 		
	 IRU/IRD bids 		
	 Convergence bids of supply and demand for ISO and EDAM BAAs that opt-in CB 		
	 AS bids for ISO, 		
	 GHG bids from resources 		
	 Extend/enforce all IFM resource limits and network constraints to EDAM. 		
	Model EDAM Transfer resource constraints:	Core	IFM
EDAM- BRQ- 13080	 Enforce the transfer limit of all TSR limits to support energy, fixed AS, IRU/IRD in IFM, the downward capacity awards of IRD and RegD shall not provide counter flow. 		
	 All TSR capacities are available for market optimal transfer for any commodity. 		
	 The transfer awards to TSR for Energy, AS, IRU, IRD. One TSR can have multiple commodity awards. 		
	 Apply to the schedule priority for the resource and TSR with CRN, only balanced self-schedule have schedule priority, with order of TOR,ETC,OATT, by penalty cost 		
	 Released capacity of TSR with CRN (pathway 2) will not have schedule priority 		

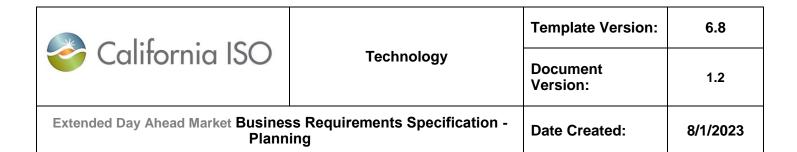
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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 13090	 Apply demand price curve for IRU/IRD Consume and transform (flip) demand price curve to monotonically increasing price curve Apply BAA demand price curve for IRU/IDR; relax on 	Core DAME	IFM
	IRU/IRD surplus variables in optimization to procure IRU/IRD In the IFM the IRU/IRD requirement will be relaxed economically before the PBC is relaxed.		
EDAM- BRQ- 13095	Broadcast PBC relaxed value, deemed BAA that failed to be cured in IFM If the EDAM BAA have non-zero relaxation (positive/negative) in Power Balance Constraint (PBC) in IFM	Core	IFM
	 Broadcast the relax value of PBC by hour by BAA Deem the BAA not cured by the market 		
	 Exclude the BAA from the EDAM upward pool if the PBC relaxed variable is positive in IFM or RUC. 		
	 Exclude the BAA from the EDAM downward pool if the PBC is relaxed variable is negative in IFM or RUC. 		
EDAM-	The EDAM pool	Process	IFM
BRQ- 13096	EDAM BAAs with zero relaxation in PBC will form a pool in RTM RSE if the BAAs tag the schedules or resupply.		
EDAM- BRQ-	Build activate/deactivate configurable parameter for net transfer out constraint	Core	DAM, IFM, RUC
13099	The activate/deactivate system parameter shall apply to DAM, IFM, and RUC		
EDAM- BRQ- 13100	Enforce Net EDAM Export Transfer Constraint	Core	IFM, RUC
	 Consume confidence factor (CF) 		(from SIBR)
	 Consume hourly reliability margin (RM) from SIBR 		
	 Consume EDAM entity submitted BAA level hourly activate flag from SIBR 		
	 Market shall enforce hourly net transfer out limit for energy, IRU, and IRD 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 (RSE Eligible Supply + Non RSE Eligible Supply x Confidence Factor) – RSE Obligation – Additional Margin 		
	The constraint uses the RSE awards to calculate the available capacity		
	 In RUC: Market shall enforce hourly net transfer out limit for (energy + IRU – IRD+ RCU) 		
	 Stressed hour shall only be reported for CAISO BAA 		
EDAM- BRQ- 13120	Do not allow simultaneous relaxation (supply shortfall/surplus) of the power balance constraint and a net export transfer above RSE eligible energy exported transfers	Core	IFM
	 The IFM will not allow a net export energy transfer above a reference to cause power balance shortfall, or a net import energy transfer below a reference to cause power balance surplus. The net transfer reference is the RSE eligible net transfer. 		
	Note: Imbalance reserve balance relaxation constraints are not required in the IRU/IRD deployment scenarios because of the economic relaxation of the IRU/IRD requirements provided by the IRU/IRD surplus		
	Note: Model as the slack variable of PBC balance (Positive as short of supply) cannot be the same direction as net transfer above RSE eligible energy transfer		
EDAM- BRQ- 13140	Do not allow simultaneous relaxation of the RCU/RCD procurement constraint and a net export transfer above RSE eligible RCU/RCD exported transfers	Core	RUC
	 The RUC will not allow the simultaneous relaxation of the reliability capacity procurement constraint and a net reliability capacity export transfer 		
EDAM- BRQ-	Model system resource (SR) with unknown location at super DGAP (SDGAP) as injection location	Core	DAM
13150	 Consume SR with unknown location association with scheduling point (SP) and super DGAP 		
	 The system resource that include the SP with association to non-EDAM super DGAP (SDGAP) will use DGAP as injection location in the DAM, LMP for the system resource will be formed according to the DGAP. 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Market shall renormalize GDF to account for outages 		
EDAM- BRQ-	Model ITC/ISL at Scheduling Point (SP) of system resource that inject at super DGAP	Core	DAM
13152	Include system resource with injection defined at DGAP in the ITC/ISL constraint that apply to corresponding intertie SP		
EDAM- BRQ-	Extend to EDAM: hourly LMP for energy and IRU/IRD to EDAM location and resource	DAME	DAM
13160	 Calculate hourly locational marginal price (LMP) for energy in DAM, include IRU/IRD deployment scenarios on congestion for nodal and resource 		
	 Include Gas nomogram shadow price for resource only 		
	 Calculate hourly SP-Tie LMP for energy in DAM include IRU/IRD deployment scenarios on congestion as normal nodal LPM plus shadow price of ITC/ISL for nodal and resource 		
	 Calculate hourly nodal IRU marginal price (IRUMP) in DAM for nodal and resource 		
	 Calculate hourly nodal IRD marginal price (IRDMP) in DAM for node and resource 		
	 Calculate hourly SP-tie IRU marginal price (IRUMP) in DAM for nodal and resource 		
	 Calculate hourly SP-tie IRD marginal price (IRDMP) in DAM for nodal and resource 		
EDAM- BRQ-	Extend to EDAM: hourly IRU/IRD surplus value, LMP and components for EDAM BAA	DAME	DAM
13161	 Access Associated Imbalance Demand Hub Apnode of each BAA from MF 		
	 Calculate BAA Imbalance Upward/Downward deployment Shift Factors Imbalance demand reference point (Anode) 		
	 Include IRU/IRD awards, demand and surplus contribution in transmission constraint 		
	 Calculate hourly IRU/IRD Surplus variable and IRU/IRD marginal price at location (Apnode) associated with the BAA Imbalance Demand Hub, including price breakdowns per BAA per PIME logic 		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Broadcast hourly IRU/IRD Surplus variable and IRU/IRD marginal price of Imbalance Demand Hub Apnode, including price breakdowns by BAA. 		
EDAM- BRQ-	Calculate the energy LMP and IRU/IRD MP for the transfer resource (TSR)	Core	DAM, RTM
13162	 Calculate energy LMP for TSRs to include all components (MEC, MCL, and MCC) similar to SP- Tie, but without MCG 		
	 For MCL, the marginal loss rate between the two TSRs for a given transfer will be averaged so that there is no marginal loss contribution to transfer revenue. 		
	 Calculate IRU/IRD LMP for TSRs. The TSR IR/RC MP is the same as energy, but without MCL for IR, thus only marginal price for IRU/IRD procurement for the BAA attached to, and marginal congestion contributions and SP-Tie, without MCG 		
EDAM-	Calculate LMP energy components (MEC) for each BAA	Core	DAM, RTM
BRQ- 13210	 The LMP energy component (MEC) will be each BAA dependent 		
	 For the EDAM BAA nodal price LMP, use the BAA power balance constraint shadow price as MEC 		
EDAM- BRQ-	Extending DAM lock commitment cost function to EDAM:	Existing	DAM, RTM
13220	 Binding DAM resource commitments should lock in the commitment cost bids (minimum load cost, startup cost, transition cost) in the RTM for the hours in which the resource was committed. 		

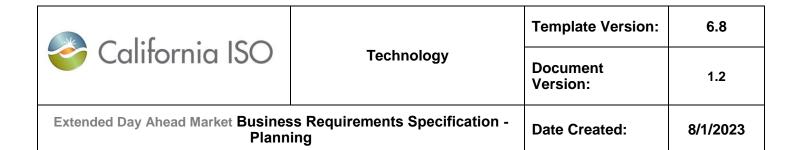
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5.8 Business Process: Manage RUC (RUC, DAM TD+X)

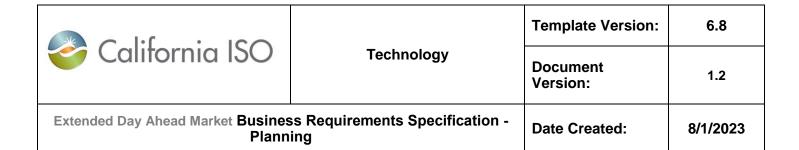
- Extend RUC for RCU/RCD to EDAM
- Calculate RCU/RCD transfers awards and prices
- Extended VER capacity to VER forecasts
- Do not allow the simultaneous relaxation of the reliability capacity procurement constraint and a net reliability capacity export transfer
- · Enforce net transfer out limit in RUC
- Run TD+X DAM market with re-optimization for energy, AS for ISO, IRU, IRD

Business Requirements

	Dusiness Nequirements				
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted		
EDAM-	Extend RUC for RCU to EDAM, model RCU/RCD transfers:	Core	RUC		
BRQ- 14010	 Define notion REN=EN+RCU-RCD for each EDAM BAA resource 	DAME			
	 Include TSR for RCU capacity in the EDAM BAAs transfer limit constraints that include IFM awards, allow Energy counter flow. 				
	 Build RUC-MPM, apply LMPM for RCU, and broadcast mitigated RUC bids 				
	 Apply mitigated RUC bids for 24 hours 				
	 Procure RCU/RCD through optimization 				
	 Fixed AS and IRU/IRD IFM awards, no CB, no GHG model 				
	Model MSG transition in RUC				
EDAM-	VER capacity extended to VER forecast	Core	RUC		
BRQ- 14012	 VER capacity shall be extended to the VER forecast in RUC for EDAM VER resources 				
EDAM-	Apply MPM for RCU at the BAA level, similar as for Energy	Core	RUC		
BRQ- 14014	 Trigger for RCU DCPA: After RUC MPM run, if the hourly Marginal RCU Cost (RUC MEC) of each EDAM BAA > CAISO BAA Marginal RCU Cost (RUC MEC) 				
	 Calculate RSI, if RSI<1, the BAA RUC PBC deemed uncompetitive for the hour 				
	 Calculate Competitive RCUMP_{i,t} for uncompetitive RUC PBC 				



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Exclude uncompetitive MCC and the differential between EDAM BAA RCU MP and ISO RCU MP from locational price of IRU		
	 Mitigate the resource IRU bid to the higher of the default RCU bid (DAB= \$55) and its competitive RCUMP_{i,t} 		
EDAM- BRQ- 14020	Do not allow the simultaneous relaxation of the power balance constraint and a net reliability capacity export/import transfer	Core	RUC
	 Do not allow a net export reliability capacity transfer above a reference to cause power balance shortfall, or a net import reliability capacity transfer below a reference to cause power balance surplus. The net transfer reference includes the energy and IRU/IRD net transfers from the IFM 		
EDAM-	Enforce net transfer out limit in RUC	Core	RUC
BRQ-	 Base on the EDAM BAA option flag 		
14030	 Market shall enforce hourly limit for (energy + IRU – IRD + RCU) as max of (difference between countable capacity and the RSE requirement for the EDAM BAA, RSE eligible transfer out) 		
EDAM-	Calculate RCU LMP for RUC transfer TSR	Core	RUC
BRQ- 14042	 Calculate RUC LMP for TSRs to include all components (MEC, MCL, and MCC) similar to SP-Tie, but without MCG. 		
	 For MCL, the marginal loss rate between the two TSRs for a given transfer will be averaged so that there is no marginal contribution to transfer revenue 		
EDAM- BRQ-	Run D+X EDAM same as D+1 EDAM with corresponding bids and forecast	Process	DAM
14060	 Run D+X study case same as DAM for D+1, no change to market products co-optimization, network, and schedule constraints enforcements 		
	 Able to run all DAM passes 		
	 The D+X runs use everything as close as possible to D+1 today. 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Use D+X bids for energy, AS. IRU/IRD in IFM, RCU/RCD bids in RUC if MP submitted bids in advance, otherwise 		
	 Allow user to use copy of the D+1 bids or same-day bids 		
	 Use latest submitted outages 		
	 Use transfers submitted scheduling limits for D+X, use D+1 limits or same-day limits if not submitted 		
	 Support schedule priority for the resource with CRN with valid self-schedule 		
EDAM- BRQ-	Run D+X EDAM with the D+X demand forecast and D+X requirements for AS, IRU, IRD	Core	DAM
14062	 Consume the BAA load forecasts for D+X 		
	 Consume the BAA VER forecasts for D+X 		
	 Consume and use latest estimated parameters of the same day type of D+X for IRU/IRD 		
	 Calculate the requirement for BAA IRU/IRD for D+X 		
	 Calculate D+X AS requirements for ISO 		
	 Consume EDAM BAA submitted D+X, AS requirement, if not submitted, use the latest day AS requirement and self-provision or same day AS requirement self- provision of the BAA 		
EDAM- BRQ-	Extend to EDAM: Model GAS Nomogram and broadcast report of Gas Burn for D+X	Existing	SMDM,
14074	 Allow EDAM entity model multiple GAS nomograms in IFM, RUC, RTPD in same manner as for ISO 		IFM, RUC, RTPD
	 Define Gas company, transmission zone and corresponding resources association 		
	 Define the coefficients for each resource in the Gas nomogram 		
	 Define the nomogram curve 		
	 Allow EDAM entity to activate the Gas nomogram through WebOMS 		
	 Calculate/Broadcast the Gas burn report 		
	 Gas burn summary report by Gas company, by transmission zone 		

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		 Gas burn detail report by resource 		
	Notes			
	•	The Gas report for each EDAM entity will broadcast to CMRI.		
	•	This requirement is referring only to the technical software capabilities to establish a gas nomogram. The CAISO would like to clarify that that gas nomograms require FERC approval and several business processes to be completed. Should an EDAM/WEIM entity wish to register a gas nomogram, this would require FERC approval.		
	•	This requirement will not add any new functionality to enable gas nomograms for EDAM/WEIM entities, either in Market or in WebOMS.		

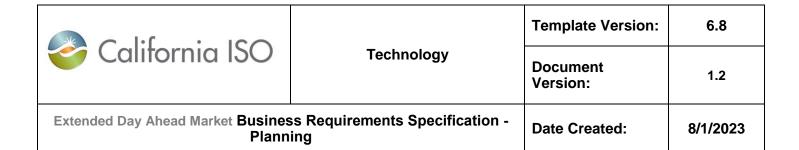
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5.9 Business Process: Manage Tagging DAM Schedules and resupply (RTSI, ITS, SIBR)

- Facilitate SC submission of tags at 3 hours post-DAM and TH-5h in RTM for DAM import/export and transfer TSR awards/schedules
- Calculate import/export tag shortfalls for EDAM BAAs in the EDAM pool 3 hours after DAM
- Calculate trading hour (TH) import/export tag shortfalls and resupply for EDAM BAAs in the EDAM pool by TH-5hr
- Verify EDAM BAA resupply to cover the import tag shortfall at TH-5 hour for the TH
- The EDAM downward pool includes all EDAM BAAs. No tag validation on export direction
- For the TSR with CRNs, allow EDAM entities and ISO to submit self-scheduled TSR

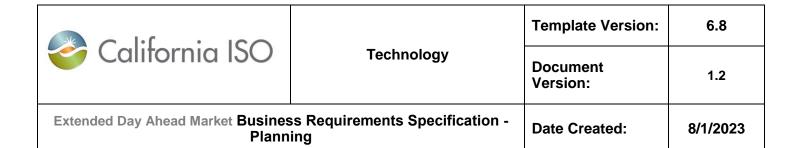
5.9.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Timing for SC to submit tags for DAM awards/schedules:	Process	RTSI for EDAM
BRQ- 15010	 3 hours after DAM: System shall consume EDAM entity SC or resource SC submitted schedule and/or transmission profile tag for DAM award/schedule by either 4 pm or within 3 hours of DAM posted results. 		ITS for ISO
	Note: The ISO market operator will broadcast the report for DAM tag after consumed tags.		
	By TH-5 hour:		
	 System shall continue to accept DAM schedule and/or transmission profile tag until (T-5 hour) for counting in EDAM pool eligibility assessment for the trading hour 		
	Note: The market system will evaluate BAA eligibility for EDAM pools based on the tags submitted for DAM schedules.		
EDAM- BRQ-	EDAM entity shall Tag hourly Intertie schedule between EDAM and non-EDAM BAAs	Process	RTSI
15020	EDAM entity SC shall submit:		
	 The hourly energy schedule and transmission profile tag for DAM self-scheduled import/export energy schedules between EDAM and non-EDAM BAAs 		
	 The hourly transmission profile tag for DAM self- provision ancillary service (AS) capacity between EDAM and non-EDAM BAAs 		

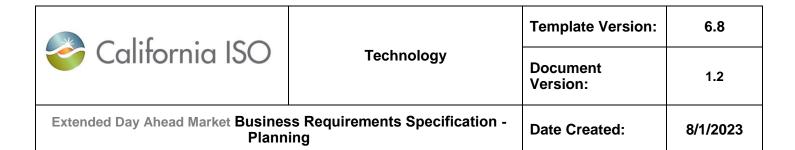


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 The hourly energy schedule or transmission profile tag for DAM self-schedule or awards of energy dynamic schedules and OATT network resources (TG) 		
EDAM- BRQ-	ISO resource SC shall tag hourly intertie energy between CAISO and non-EDAM BAAs in e-tagging system	Existing	ITS
15030	Import/Export Resource SC of CAISO shall submit:	DAME	
	 The tag for DAM self-scheduled import/export energy schedules between EDAM and non-EDAM BAAs 		
	 The tag for DAM self-schedule or awards of energy dynamic schedules and OATT network resources (TG) 		
EDAM- BRQ-	EDAM entity SC or resource SC shall submit approved tags for DAM hourly TSR awards for energy	Process	EDAM scheduling
15040	All TSR DAM energy awards shall be tagged for energy profile between EDAM BAAs		system
	 The tag shall be sum of all import, excluding wheels and pseudo tie tag, associated with the from BAA and to BAA IDs that are defined the Master File or SIBR 		
	Tagged energy profile		
EDAM- BRQ-	ISO shall Tag hourly TSR awards for energy for ISO in etagging system	Process	ITS
15050	Between the ISO BAA and EDAM BAA in the EDAM footprint		
	Tag energy profile for DAM TSR energy awards		
EDAM- BRQ- 15060	Calculate the gross tagged energy import for CISO twice, at 3 hour after DAM awards are consumed and at T-5HR of real time	Existing	ITS
	 Calculate the hourly gross energy import tagged include import and TSR import for the ISO 		
	 Exclude wheeling tags and pseudo tie tags 		
	 Each time the value is calculated the most recent submitted tags, in approved and pending approval state, will be considered 		
EDAM- BRQ-	Calculate the gross tagged energy import for the EDAM BAA	Process	EDAM scheduling
15062	 Calculate the hourly gross energy import tagged- include import and TSR import for the EDAM BAA 		system

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Exclude wheeling tags and pseudo tie tags 		
	 Each time the value is calculated the most recent submitted tags, in approved and pending approval state, will be considered 		
EDAM- BRQ- 15063	System shall provide a new submit service to allow the external entity to submit the gross tagged energy import for EDAM BAA after the value is calculated	Core	SIBR
	 The submitted value is the gross energy import tagged for the EDAM BA by hour 		
	 The gross import data should be submitted at least twice: at 3 hours after DAM award publication for all trading hours and at TH-5 hour for the trading hour. 		
EDAM-	Consume Gross Energy Import by BAA	Core	SIBR
BRQ- 15069	 Data from EDAM entity will be submitted directly to RTSI then broadcasted to the system 		
	 Data from CISO BA will be broadcasted by ITS and consumed by the system 		
EDAM- BRQ-	Calculate gross hourly energy import schedule upon receiving DAM awards	Core	SIBR
15070	 The system shall calculate the DAM gross hourly energy import schedule for each EDAM BAA and ISO 		
	 Import between EDAM BAA (include ISO) and non-EDAM BAA, and 		
	 Transfers in TSR between EDAM BAAs (include ISO) 		
	 Exclude wheel and pseudo-tie type award 		
EDAM- BRQ- 15071	Calculate the tag shortfalls for each CISO and EDAM BAA twice, at 3 hour after DAM awards are broadcasted and at T-5HR of real time	Core	SIBR
	 System shall calculated the shortfall as the difference between aggregate energy import awards and aggregate import based on tags 		
	Note: max(0, schedule-import tag) is considered shortfall		
EDAM- BRQ-	System shall calculate supply bid coverage by EDAM Entity BA and ISO market, at T-5HR of real time	Core	SIBR
15110	 For entities that passed shortfall test (shortfall=0), the resupply test should be auto passed 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 For entities that failed shortfall test (shortfall>0): Calculate the sum of the supply energy bid range above the day-ahead schedule Not encumbered by UPWARD capacity awards 		
	 Resupply passed if the resupply≥ shortfall Resupply failed if the resupply< shortfall 		
EDAM- BRQ- 15130	Broadcast import tag shortfalls by hour by BAAs to OASIS at 3 hour after DAM awards are consumed • Gross import tagged • Tag shortfall test amount (0 if the tagged import covers schedules) • Tag shortfall test results (PASS/FAIL)	Core	SIBR
EDAM- BRQ- 15132	Broadcast import tag shortfalls and resupply results by BAAs to OASIS at TH-5HR of TH Gross import schedule Gross import tagged Tag shortfall test amount (0 if the tagged import covers schedules) Tag shortfall test results (PASS/FAIL) Bid coverage supply Bid coverage resupply coverage shortfall amount (0, if the resupply covers schortfall) Bid coverage resupply coverage test results (PASS/FAIL)	Core	SIBR
EDAM- BRQ- 15134	Exclude the EDAM pool tagging and resupply test for the BAAs which have already been dropped out of the EDAM pool due to PBC infeasibilities in IFM or RUC	Core	SIBR
EDAM- BRQ- 15140	For the TSR with CRN, EDAM entity will submit late schedule changes as an update to RTSI of the TSR in RTM For the TSR associated with CRN:	Business Process	RTSI
	 The OATT transmission owner can do this through an eTag associated with the CRN up to their rights 		

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	 The EDAM entity should verify that the late schedule change does not exceed the CRN entitlement 		
	The EDAM entity shall submit the self-schedule for the TSR on behalf of transmission right owner		
	 RTSI shall consume and broadcast submitted self-scheduled TSR 		
	 SIBR shall consume self-scheduled TSR 		
EDAM- BRQ- 15200	EDAM/WEIM Entity needs to include the CRN when submitting the final tag information as part of the After The Fact tag through RTSI External Entity (EDAM and WEIM) to submit a schedule breakdown by CRN when submitting after the fact tag through RTSI – specifically to identify how the TSR schedules are divided	Business Process	RTSI
	Note: The EDAM entity can submit the AFT tag for transmission right owner resource DA RSE with CRN		

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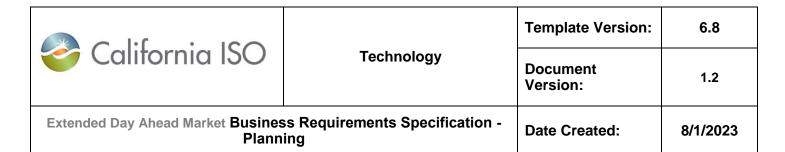
5.10 Business Process: Manage RTM (RT-RSE, RTM)

- Calculate FRU/FRD requirements for the EDAM pool
- Run the WEIM RSE for EDAM up/down pools with the pool FRU/FRD requirements
- EDAM BAAs in the RSE passed pool shall be included in the WEIM RSE passed group
- EDAM pool in WEIM RSE shall fail as a pool
- AET optionality for failed EDAM up pool: form sub-pools of AET and of non-AET for the relevant intervals
- Do not allow the simultaneous relaxation of the PBC constraint and a net export transfer
- Equal priority for load and EDAM energy TSR
- Post-HASP curtailment rule to incorporate DA-TSR as same priority as load
- LMP Marginal energy cost component for each BAA

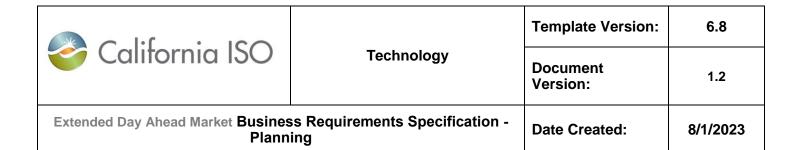
5.10.1 Business Requirements

5.10.1 Business requirements			
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-16015	Perform only WEIM base schedule Flex test for EDAM BAAs:	Core	RTBS
	No Balance test in WEIM for EDAM BAA		
	No feasibility test		
	No capacity test		
	Only Flex test applies to EDAM BAA		
EDAM- BRQ-16016	Auto-mirror DA schedule between EIM BAA and EDAM BAA	Core	RTBS
	System shall auto mirror the total IFM energy schedule of the MF defined SR and SIBR defined transaction between EDAM BAA and WEIM BAA with same DGAP and Tie.		
EDAM- BRQ-16020	Consume the EDAM up/down pool composition and forecast parameters for the FRUR/FRDR	Core	RTBS
	 RTBS consumes from RTSI/SIBR EDAM pool composition to indicate EDAM BAAs that in EDAM upward/downward pools 		
	 RTBS consumes the polynomial forecast parameters for calculation of FRUR/FRDR for the EDAM upward /downward pools 		
EDAM- BRQ-16022	Calculate the interval FRUR/FRDR for the EDAM up/down pools at T-75, 55 and 40.	Core	RTBS
	 Merge the EDAM upward pool corresponding BAAs' forecast for demand, solar, and wind 		

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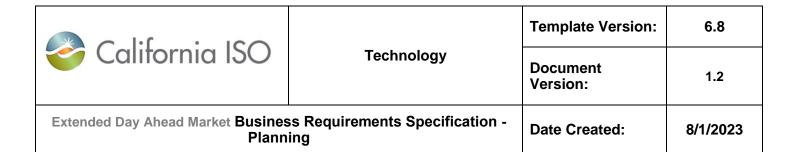


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Merge the EDAM downward pool corresponding BAAs' forecast for demand, solar, and wind 		
	 Consume the estimated parameters for EDAM upward pool and EDAM downward pool 		
	Calculate the requirements FRUR /FRDR for the interval of the trading hours for EDAM upward/downward pools using merged forecasts of corresponding BAAs and the estimated parameters from the mosaic uncertainty polynomial		
	 Applies same threshold in the same manner as for WEIM RSE passing group 		
EDAM- BRQ-16030	WEIM RSE Flex test for EDAM up/down pool with the pool FRU/FRD requirements	Core	RTBS
	 For EDAM pool, run Flex test only, no Balance, feasibility, capacity test* 		
	 The WEIM-RSE shall run flex test, test the EDAM upward pool for FRU sufficiency, and EDAM downward pool for FRD sufficiency 		
	 WEIM RSE will use the latest available tag for imports, exports, and transfers 		
	 If no tag is submitted by T-40, schedules shall be set to 0 for the relevant (i.e. not tagged) testing hour(s) in the WEIM RSE Test 		
	 The EDAM TSR energy schedules are treated as base ETSR in WEIM RSE 		
	*Note: Passing the Flex test implies the ability to pass the capacity test		
EDAM- BRQ-16032	WEIM RSE flex test for EDAM BAA that drop-out of EDAM pool	Core	RTBS
	 For EDAM BAA that are not in the EDAM up pool, run flex up test for FRU sufficiency test 		
	 For import/export with non-EDAM and energy transfer with other EDAM BAAs based on the tag/transmission profile 		
	Note: EDAM downward pool includes all the EDAM BAAs, since there is no checking the export tag status for EDAM BAA.		



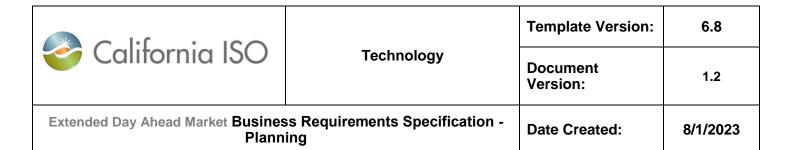
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-16050	If the EDAM pool passes the WEIM RSE, the EDAM pool will be added to WEIM RSE BAA pass group	Core	RTBS
	 If EDAM up/down pool passes the +WEIM-RSE, report pass outcome for the EDAM pool in the same manner as for a WEIM BAA passing 		
	 For the BAA in pass group, calculate the FRUR/FRDR and procure the FRU/FRP in RTM 		
EDAM- BRQ-16055	The system shall calculate the FRU/FRP demand curve for each WEIM BAA	Existing	Internal ISO System
	 The demand price curve for FRU/FRD is for individual BAA 		
	 The FRU/FRD surplus in each FRP Surplus Zone in each BAA in the WEIM Area is distributed in the ACPF solution with the same distribution factors that are used to distribute the FRU/FRD requirement, but renormalized for that FRP Surplus Zone that apply to EDAM pool 		
EDAM-	EDAM BAA shall not submit Base Schedules	Core	BSAP
BRQ-16058	 System shall not allow EDAM BAA to submit base schedules 		
	Note: EDAM BAAs have DA schedule that will be used as reference for RT deviation settlement		
EDAM- BRQ-16060	For EDAM up pool that failed WEIM RSE as a pool, divide it into AET sub-pool and non-AET sub-pool for each 15 minute interval	Core	RTBS, RTM
	 If EDAM up/down pool fails the WEIM-RSE, report the failure for the entire EDAM up/down pool 		
	Depending on the election of each BAA in the EDAM up pool to receive Assistance Energy Transfer (AET) or not (registered in MF), the EDAM up pool that failed RSE shall be divided into two sub-pools: the sub pool that will receive AET (the AET sub-pool) and the sub pool that will not receive AET (the non-AET sub-pool)		
	 The system shall broadcast the BAA composition of the AET sub-pool upward, and the non-AET sub-pool upward for each 15-minute interval 		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-16062	Allow assistant energy transfer for AET Sub-pool in RTM The system shall procure FRU in the RTM for each sub-pool up similar to a BAA that has failed the RSE upward test The AET sub-pool will be treated in RTPD, RTD, and STUC similar to a BAA that has elected to receive AET, i.e. without net transfer constraint	Core	RTM
	at the sub-pool level and ex-post surcharge for those receiving AET (refer to RSEE Phase 2 BRS for details)		
	 The non-AET sub-pool will be treated in RTPD, RTD, and STUC similar to a BAA that has elected not to receive AET, i.e. with a net transfer constraint at the sub-pool level and (refer to RSEE Phase 2 BRS for details) 		
EDAM-	WEIM RSE for AET sub-pool after T-40	Core	RTBS
BRQ-16065	 The system shall perform additional flex ramp up sufficiency test for the EDAM up AET sub- pool right after T-40 RSE test 		
	 Use existing flex test for AET sub-pool 		
	 System shall broadcast the insufficiency amount for AET sub-pool in 15-minute intervals 		
	 If AET sub-pool fail the RT RSE, report the deficiency amount 		
	 If AET sub-pool pass the RT RSE, report the surplus amount 		
	Note: see Appendix A8 Business Flow Diagrams (a)		
	The insufficiency amount will be used in Settlements for the AET surcharge. The AET sub-pool with surplus RSE will not be subject to AET surcharge.		
EDAM- BRQ-16088	Include Mirror resource for the EDAM DA schedule for energy in the WEIM BAA's PBC	Existing	RTPD, RTD
EDAM- BRQ-16090	Do not allow the simultaneous relaxation of the PBC constraint and a net export transfer	Existing	RTPD, RTD

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Model as the slack variable of PBC balance (positive as short of supply) cannot be the same direction as net transfer above IFM energy transfer (Appendix A3) For a given time interval, the BAA power balance constraint with penalized supply shortfall and surplus is as follows: $\sum_{i \in BAA_j} G_{i,t} - D_{j,t} - T_{j,t} + s_{j,t}^{(+)} - s_{j,t}^{(-)} = 0$		
	The power balance constraint relaxation when either the shortfall or the surplus take value is constrained as follows: $ \left(s_{j,t}^{(+)} + \sum_{i \in BAA_j} ABC_{i,t}^{(+)} \right) \left(T_{j,t} - \bar{T}_{j,t}^{(+)} \right) \leq 0 $ $ \left(s_{j,t}^{(-)} + \sum_{i \in BAA_j} ABC_{i,t}^{(-)} \right) \left(T_{j,t} - \bar{T}_{j,t}^{(-)} \right) \geq 0 $		
EDAM- BRQ-16100	In RTM penalty setting, equal priority for load and DAM energy TSR (same as base TSR) for BAA In stressed system conditions, infeasibility by relaxing the power balance constraint in the BAA with insufficient supply. Same penalty cost for DAM energy transfer and base transfer and load for the BAA The TSR with CRN Self-Schedule (SS) late self-schedule have equal priority to the cleared DAM TSR with CRN self-schedule. If OATT priority higher than RT SS is communicated (i.e. OATT 1), it shall be given ELC equivalent priority (no hedging)	Core	RTPD, RTD
EDAM- BRQ-16102	Post-HASP curtailment rule to incorporate DA-TSR to have same priority as DAM schedule for ISO	Core	RTPD



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Update post HASP curtailment rule. Include DATSR schedule, in addition to RA import, DAM import, PT wheel (PT export leg/Import leg), and PT export for ISO. DA-TSR schedule will have equal priority as DAM cleared schedule in post-HASP curtailment. 		
EDAM- BRQ-16104	HASP Hourly block schedule revert to RUC schedule under HASP failure	Core	RTPD
	In case of HASP failure, or operator manually blocking of HASP results, will revert to RUC schedule (IFM EN+RCU-RCD) for hourly import, IFM_EN-RCU+RCD for hourly export		
EDAM-	LMP Marginal energy cost component for each BAA	Core	RTPD,RTD
BRQ-16110	 The LMP energy component (MEC) shall be the shadow price of each BAA PBC (a change from today WEIM), apply to DAM and RTM 		
EDAM- BRQ-	MPM for Energy at the WEIM BAA level–Trigger DCPA for PBC in RTPD	Core	RTPD
16112a	Trigger for RTPD binding interval DCPA		
	After RTPD MPM run for the RTPD all intervals compare the 15 minute interval t Marginal Energy Cost (MEC) of each WEIM BAA and CAISO BAA MEC		
	 If (WEIM BAA MEC > CAISO BAA MEC), the WEIM BAA is subject to PBC DCPA test for the interval t. otherwise, no DCPA test for the interval. 		
EDAM- BRQ-	MPM for Energy at the BAA level– DCPA for WEIM BAA PBC	Core	RTPD
16112b	 For each interval, for the WEIM BAAs triggered for DCPA, evaluate if BAA PBC is an uncompetitive constraint, treat PBC as a binding constraint, use same DCPA calculation as for other binding constraints Calculate RSI of PBC 		
	 If RSI <1, the WEIM BAA PBC deemed as uncompetitive constraint on hourly basis. Otherwise, the BAA PBC deemed competitive 		
EDAM- BRQ- 16112c	Apply MPM for Energy at the BAA level-LMPM for WEIM resources; Calculate competitive LMP that excludes differential of MECs	Core	RTPD

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Calculate competitive LMP: For the WEIM BAAs have interval uncompetitive PBC, exclude uncompetitive MCC, exclude the differential between WEIM BAA MEC and CAISO MEC from nodal LMP for competitive LMP calculation for all price nodes in the BAA that apply LMPM in 15 minute interval. For the WEIM BAAs with competitive PBC, exclude uncompetitive MCC from nodal LMP for competitive LMP as currently for all price nodes in the EDAM BAA. Bid mitigation: If uncompetitive portion LMP_i^{NC} > Mitigation Threshold Price, the resource bid would be mitigated to the higher of the default energy bid (DEB) and its competitive LMP. The bid mitigation apply to all the resources that subject to LMPM. Only mitigate resources that have net positive contribution to the LMP Apply exiting RTPD MPM rule, 		
EDAM- BRQ- 16112d	 mitigated bid curve on RTPD intervals MPM for Energy at the WEIM BAA level–for PBC in RTD Trigger for RTD DCPA: After each RTD run, if the first three advisory intervals Marginal Energy Cost (MEC) of each WEIM BAA > CAISO BAA MEC RTD DCPA the three advisory interval: use Ramp capacity for 5 minute, DCF for energy and FRU/FRD deployment scenario. Same calculation for uncompetitive paths as RSI_{m,t}<1 Note: in SCF we include all AS awards from FMM, and use 5 min ramp capability Calculate Competitive LMP_{i,t} that exclude uncompetitive MCC and exclude differential between of WEIM BAA MEC and ISO MEC from LMP for uncompetitive PBC 	Core	RTD

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Mitigate the resource energy bid to the higher of the DEB and its competitive LMP _{i,t} Apply existing RTD MPM rule, first three advisory intervals inherent from previous RTD on rolling forward basis, the other RTD intervals use unmitigated bids. MPM Timing and intervals for FMM and RTD: MPM h h h h h A1		
EDAM- BRQ-16130	Extend BAA FRP Procurement to the sub-pool for the 15-minute interval that is binding for energy scheduling in FMM • FRU procurement constraint formed for AET sub-pool without restraining the transfer • FRU procurement constraint formed for non-AET sub-pool with restraining the transfer	Core RSEE2	RTPD STUC
EDAM- BRQ-16140	The WEIM ABC functionality shall apply to EDAM BAA (non-ISO) self-provision regulation in DA and RTM • For the EDAM BAA, all the regulation self- provision, in DAM and RTM shall be eligible for ABC in RTM. Note: WEIM ABC function does not apply to the ISO BAA, no change to current rule	Core	RTPD, RTD

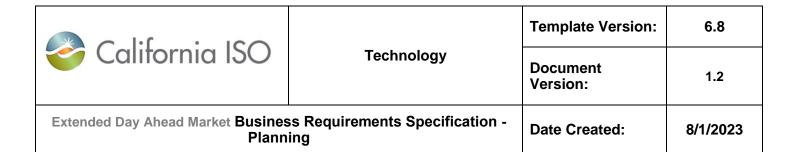
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		Document Version:	1.2
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5.11 Business Process: Manage GHG in DAM and RTM (GHG pass, GHG model in DAM and RTM)

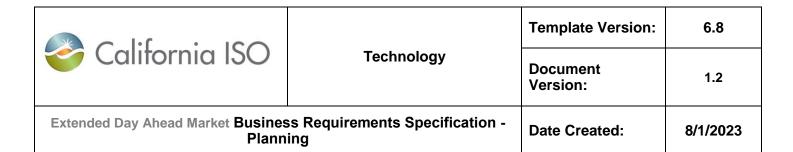
- Build GHG reference pass in DAM
- Use full optimization without net imports to GHG area for GHG reference pass
- In GHG reference pass: no reference for GHG contractual resource capacity registered in MF as committed to serve demand in a GHG regulation area outside the GHG regulation areas
- Store resource energy schedules as GHG reference point
- In the DAM: model resource specific GHG model for multiple GHG regulation areas using resource reference point from GHG pass
- Include GHG transfer attribution constraint in MPM and IFM for each GHG regulation area and outside resource above GHG reference point
- Calculate/broadcast GHG constraint shadow price
- The aggregate GHG attribution to resources in a BAA in a non-GHG area is limited by the hourly/interval net export constraint in DAM and RTM
- WEIM RTM GHG model changes

5.11.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Build GHG reference pass in DAM	Core	DAM
BRQ-	 Build a different pass that can run with same market inputs 		GHG Pass
17020	 GHG reference pass can be run by user manually, or: 		
	 Timed automatic run after DAM close at 10 am, before MPM 		
EDAM- BRQ-	Use full optimization without net import to GHG regulation area(s) for GHG reference Pass	Core	DAM
17030	Run GHG reference pass with full optimization identical to IFM , except :		GHG Pass
	 Ignore GHG bids, i.e. do not consider GHG bids when determining optimal energy schedules, and with no impact of the GHG net export constraint 		
	 The GHG transfer of each GHG regulation area [supply (include Gen bid, GHG pseudo-tie) Import from non-EDAM minus export, minus load] is constrained above or equal zero, i.e., no net import into a GHG regulation area is allowed, but allow net export from GHG regulation area 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 17040	In the GHG reference pass, no GHG reference for contractual resource capacity registered in MF as committed to serve demand in a GHG regulation area - Access MF defined contractual resources located outside of a GHG regulation area - The energy bids of contractual capacity resources are ignored for reference calculation purposes. Resource capacity with contractual obligation to serve the demand in a GHG regulation area shall not receive a GHG reference schedule - The resource capacity that exceeds the contractual obligation shall be in the GHG pass: - Ex: Resource Pmax= 200 MW, GHG contract for 120 MW (defined in MF), so 80 MW need to be in GHG pass - Note: This BRQ applies only to resources that are not GHG pseudo—tied.	Core	DAM GHG Pass
EDAM- BRQ- 17050	The GHG reference pass will ensure there are valid reference schedules o Ensure the GHG reference point is the max of: 0, positive dispatch	Core	DAM GHG Pass
EDAM- BRQ- 17060	Store resource energy schedule from GHG reference pass as the GHG reference point for MPM and IFM • Store the GHG pass resource scheduled MW to support GHG reference point in MPM, IFM Note: Report SC/entity on CMRI	Core	DAM GHG Pass (CMRI)
EDAM- BRQ- 17070	 The DAM will use the resource-specific GHG model for multiple GHG regulation areas using the resource's GHG reference point from the GHG reference pass: Access data In MPM and IFM, use the resource specific attribution GHG model, similar to the model used in the WEIM Access the MF-defined GHG regulation areas and associated resources Consume the SIBR-submitted GHG bids and the association of a resource's GHG bid to a specific GHG regulation area Note: Allow resource in one GHG area to submit bids for other GHG regulation areas 	Core	DAM

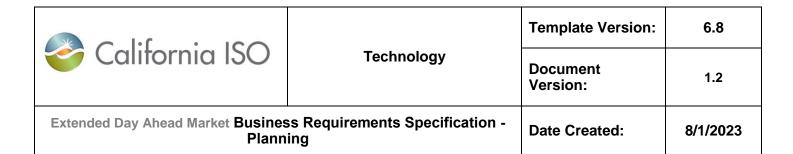


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 17070a	GHG Model: The DAM will use the resource-specific GHG model for multiple GHG regulation areas using the resource's GHG reference point from GHG pass	Core	DAM
	 Optimal allocation GHG transfer to non-GHG regulation area resource for each GHG area 		
	 Include the GHG bids for the portion of the GHG MW allocated to the resource in the objective function 		
	 The GHG transfer for each GHG regulation area is defined as (supply (include PDR and Gen bid, GHG pseudo-tie) minus load schedule and export in IFM) for the GHG area 		
	 The GHG import allocation constraint is modeled as import GHG transfer less than sum of GHG attributions for each GHG area 		
EDAM- BRQ- 17080	Include GHG transfer attribution constraint in MPM and IFM for each GHG regulation area and outside resource above GHG reference point	Core	MPM, IFM
	 For each resource with GHG bids, the attribution amount is limited by the min of the GHG bid, optimal energy, and the value of the positive difference between the available capacity UEL and GHG reference point that is calculated through the GHG reference pass. Ensure the GHG reference point is the max of (0, (NGR) positive dispatch), applicable for resource with negative Pmin 		
	 GHG attribution constraint allocates GHG transfer into a specific GHG regulation area to EDAM resources outside of this GHG regulation area with GHG bid adders 		
	 Allow resources in GHG regulation area with GHG bid adders to serve other GHG regulation areas 		
	 For resources located outside of a GHG regulation area that do not have a GHG bid adder, or have a bid adder of 0 MW to serve Demand within a specific GHG Regulation Area, do not attribute the resource as supporting a GHG Transfer into that specific GHG Regulation Area 		
EDAM-	Calculate DA GHG marginal price	Core	DAM
BRQ- 17090	 Calculate shadow price of GHG import allocation constraint for each GHG regulation area as GHG marginal price to serve this GHG regulation area from outside resources. This will be used for GHG Settlements 		

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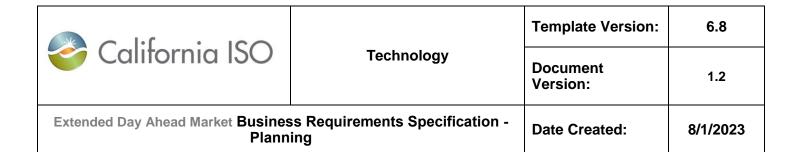
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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 17100	With GHG transfer attribution constraint modeled as import, calculate through supply minus demand for GHG regulation area. The MGC will be a positive value at the node of GHG regulation area. The MGC will be zero for the node outside of the GHG regulation area. Calculate EDAM LMP GHG MGC components in DAM and RTM. Competitive LMP calculation should include MGC as	Core	DAM
EDAM- BRQ- 17110	Deactivate Gross GHG net export constraint if BAA failed RSE Hourly activate flag for Gross GHG attribution constraints (GHG net export constraint) –system wide - one flag for DAM and one flag for RTM If any BAA that overlaps with GHG regulation area failed EDAM RSE upward, the constraint will be automatically turned off for the failed hour for the system In RTM, for the intervals failed RT RSE upward, the constraint is turned off	Core	DAM, RTM
EDAM- BRQ- 17120	 Gross GHG attribution Constraints: The aggregate GHG attribution to resources in a BAA in the non-GHG regulation area is limited by the hourly GHG net export constraint For each BAA outside of a GHG regulation area: Access MF flag for the BAA that overlap with a GHG regulation area. The market will enforce the GHG net export constraint only for the BAAs that do not overlap with a GHG regulation area. Add hourly constraints to limit aggregated GHG attribution to the resources in a BAA: The aggregate GHG attribution to resources in a BAA is limited to the max () of following: The total resource capacity in the EDAM BAA that is contractually obligated to serve demand in GHG regulation areas, 	Core	MPM, IFM



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 The gross RSE-eligible export transfers from the EDAM BAA to other EDAM BAAs that overlap with GHG regulation areas, or 		
	 The net transfer (positive for export and negative for import) of the BAA at the optimal solution of the previous iteration. 		
EDAM- BRQ-	GHG net export constraint for one GHG area resources that serve other GHG areas	Core	IFM
17122	 Add hourly constraints to limit aggregated GHG attribution to the resources in a GHG area that attribute to other GHG areas 		
	 Where limit is max() function is the total resource capacity that is contractually obligated to serve demand in other GHG regulation areas and the GHG transfer of the GHG regulation area at the optimal solution of the previous iteration. 		
EDAM-	In RUC, No GHG is modeled	Core	RUC
BRQ-	No GHG bids in RUC		
17130	 No GHG transfer constraint 		
	No resource GHG capacity constraint		
EDAM-	WEIM RTM GHG model changes:	Core	RTM
BRQ- 17200	 Same as for EDAM, change WEIM GHG implementation to use GHG transfer (supply, include GHG pseudo-tie minus demand in GHG regulation area) instead of BAA-BAA transfer to avoid defining the intra-BAA transfer between CLAPs that is separated by the GHG state boundary in the net export to a GHG regulation area 		
	 The GHG transfer of each GHG regulation area for the GHG area less than sum of GHG attribution. 		
	 RTM will have different number of WEIMs vs number of EDAM entities, consequently different number of resources with GHG contract, bid, etc., consequently different reference and attribution for each resource. 		
	 Distribute the load forecast BAA by LDF to the nodes that correspond to each GHG regulation area (state: WA, CA) boundary 		
	 For each resource with GHG bids, the deemed allocation amount is limited by min of the GHG bid, optimal energy, and 		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	the value of the positive difference between the available capacity UEL and the GHG reference point		
	 Calculated through the IFM pass for EDAM BAA resource (max(0,IFM schedule-GHG attribution)) or 		
	 Base schedule for the resource in WEIM BAA only. Ensure the GHG reference point is the max of (0, NGR positive dispatch) 		
EDAM-	Gross GHG attribution constraints in WEIM:	Core	RTM
BRQ- 17210	 Add activation/deactivation flag for Gross GHG Attribution constraint for RTM 		
	 If any BAA that overlaps with a GHG regulation area has failed the WEIM RSE (capacity or flex test) in a fifteen minute interval, the constraint will be deactivated for the RTPD and RTD for that interval 		
	For each BAA that does not overlap with any GHG regulation area:		
	 The sum of all GHG attributions from the resources for each 5 min/15 min interval in the BAA shall be limited to the higher of: 		
	 Total capacity that is contractually obligated to serve demand in GHG regulation areas, as specified in the resource registry in the MF 		
	 The net BAA transfer at the optimal solution of the previous iteration (the constraint will not be enforced in the first RTPD SCUC without network; in RTD, the previous iteration is the first advisory of the previous RTD run) 		
FDAM	Calculate/broadcast RT GHG marginal price	0	DTM
EDAM- BRQ- 17230	Calculate shadow price of GHG import allocation constraint for each GHG regulation area as GHG marginal price to serve this GHG regulation area from outside resources. This will be used for GHG Settlements	Core Tariff: §33.32.3 §27.1.1.3.1	RTM
	Broadcast the GHG marginal price for each GHG regulation area		

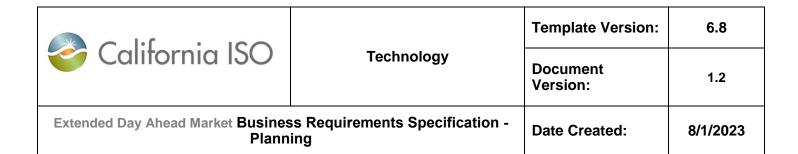
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5.12 Business Process: Manage Market Quality, Validation and Price Correction

- Extend to EDAM the DA schedule forecasted movement calculation
- Extend to EDAM: resources FMM ex-post capacity calculation
- Extend to EDAM: resources IRU/IRD, RCU/RCD FMM ex-post capacity allocation
- Extend to EDAM: resource Expected Energy calculations and allocation
- Exclude DAM TSR from expected energy calculations and allocations
- Extend to EDAM: resource Ex-Post Capacity calculations and allocation
- Extend to EDAM: resource Auxiliary Capacity calculations
- Extend to EDAM: RTM Resource Commitment Cost determination
- Extend to EDAM: resource IRU/IRD award 5-minute ramp capable portion calculation

5.12.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 18140	Extend Calculation of DA schedule Forecasted movement to EDAM	Existing DAME	Internal ISO System
EDAM- BRQ- 18505	Extend to EDAM resources the Resource Expected Energy Calculations, Allocations System shall extend to EDAM resources the Resource Expected Energy Calculations and Allocations	Existing DAME	Internal ISO System
EDAM- BRQ- 18510	Exclude DAM TSR, from expected energy calculations and allocations System shall exclude DAM TSR, from expected energy calculations and allocations, similar to existing WEIM ETSRs.	Core	Internal ISO System
EDAM- BRQ- 18515	Extend to EDAM resources the Resource Ex-Post Capacity Calculation and Allocations System shall extend to EDAM resources the Resource Ex- Post Capacity Calculations and Allocations	Existing DAME	Internal ISO System



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 18520	Extend to EDAM resources the resource FMM ex-post capacity calculation System shall extend to EDAM resources the resource FMM ex-post capacity calculation	Core DAME	Internal ISO System
EDAM- BRQ- 18525	Extend to EDAM resources the resource IRU/IRD, RCU/RCD FMM ex-post capacity allocation System shall extend to EDAM resources the resource IRU/IRD, RCU/RCD FMM ex-post capacity allocation	Existing DAME	Internal ISO System
EDAM- BRQ- 18530	Extend to EDAM resources the Resource Auxiliary Capacity Calculations System shall extend to EDAM resources the Resource Auxiliary Capacity Calculation	Core DAME	Internal ISO System
EDAM- BRQ- 18535	Extend to EDAM resources the Resource RT Commitment Cost Determination System shall extend to EDAM resources the Resource RT Commitment Cost Determination	Existing DAME	Internal ISO System
EDAM- BRQ- 18540	Extend to EDAM resources the Resource IRU/IRD award 5-minute ramp capable portion calculation System shall extend to EDAM resources the Resource IRU/IRD award 5-minute ramp capable portion calculation	Existing DAME	Internal ISO System
EDAM- BRQ- 18545	Extend Calculations of 5-min Ramp-Capable Portion Data to EDAM resources System shall extend calculation of 5-min Ramp-Capable Portion Data to EDAM resources	Existing DAME	Internal ISO System
EDAM- BRQ- 18547	Extend Use of IFM MSG Configuration as Reference for RT MLC Calculations to EDAM System shall extend use of IFM MSG configuration as reference for RT MLC calculations to EDAM.	Existing DAME	Internal ISO System
EDAM- BRQ- 18550	Extend Consuming market result and corrected market result for EDAM resource System shall extend consumption of IFM produced resource awards and Ramp Rate Curve to EDAM BAAs System shall extend consumption of corrected resource awards and ramp rate curve to EDAM BAAs	Existing DAME	Internal ISO System

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Extended Day Ahead Market Business Requirements Specification - Planning		Date Created:	8/1/2023

5.13 Business Process: Manage Billing and Settlements (MRI-S, Settlements)

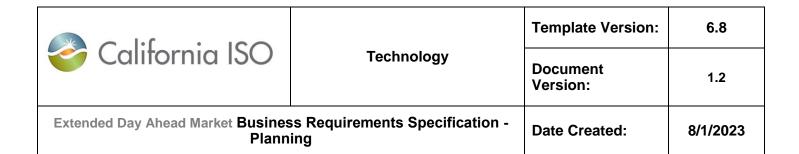
- Settle DA TSR for energy, IRU/IRD, RCU/RCD
- EDAM RSE failure surcharge and allocation
- DAM Settlements for EDAM resource energy, IRU/IRD, RCU/RCD
- DAM BCR
- DAM GHG Settlements
- EDAM legacy contract settlements
- Neutrality
- RTM Imbalance energy Settlements refer to DAM schedule
- EIM ETSR Settlements
- RUC, RTM BCR
- GMC for EDAM

5.13.1 Business Requirements

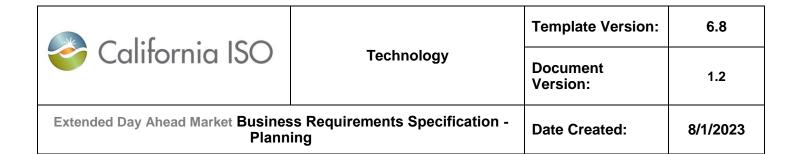
J. 13.1 Business Nequirements				
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted	
EDAM-	Consume EDAM IFM and RUC market data	Existing	Settlements	
BRQ- 19010	Consume EDAM resource, nodal and network constraint hourly market data same as for CAISO resource nodal and constraint data in DAM			
	 All the EDAM resource ID, physical and virtual and attributes - from MF and market 			
	 Clean and final bids for energy, IRU/IRD, RCU/RCD 			
	 Resource Awards for energy, AS, IRU/IRD, RCU/RCD 			
	 Resource and nodal prices, SP-Tie and components breakdown: energy, congestion by BAA, loss, GHG by GHG area 			
	 EDAM LAP, CLAP prices for energy 			
	EDAM IRU/IRD imbalance Hub price and breakdown (Market)			
	 EDAM BAA IRU/IRD IFM cleared requirement and relaxation 			
	Binding Constraint and shadow price by BAA			
	 BAA requirements for Energy, AS, IRUR/IRDR 			
	BAA IRUS/IRDS			
	BAA Associated Imbalance Demand Hub Apnode			

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Consume EDAM market results	Existing	Settlements
BRQ- 19014	 Resource expected energy (EE), EE allocation and commitment cost (AUX cost) -Resource FMM ex-post capacity and allocation 		
	Resource DAM 5 minute ramp-capable portion for Imbalance reserve		
	CRRS (CRR 1B) outputs by constraint–current design		
EDAM-	Access MF Data	Core	Settlements
BRQ- 19020	System shall have the capability to automatically access and store the following data:		
	Registered DA-TSR pair		
	o ID		
	 Associated attributes 		
	 Designated tagging entity 		
	○ RSE flag		
	Registered CRN definition and resource association		
	 WECC on-peak definition from MF (6 am-10pm Monday through Saturday, except holidays) 		
	 WECC off-peak definition from market (10pm-12 am, 12 am- 6am) Monday through Saturday, whole day of Sunday and holidays) 		
EDAM-	Consume 16-Hour Block Priced at Hub (PV, Mid-C)	Existing	Settlements
BRQ-	On daily basis, System shall consume the following data:		
19022	 Bilateral trading Mid-C, PV Hub priced for Settlements surcharge for the BAA failed DA-RSE. 		
EDAM-	Consume DA CRN and TSR SIBR Data	Core	Settlements
BRQ- 19024	Upon IFM/RUC market close, and similar to other IFM/RUC data, System shall consume the following data:		
	Dynamic DA-TSR pair		
	o ID		
	 Associated attributes 		
	 Designated tagging entity 		
	○ RSE flag		
	SIBR deemed pathway for the DA paired TSR by hour		
	Dynamic CRN definition and resource association		

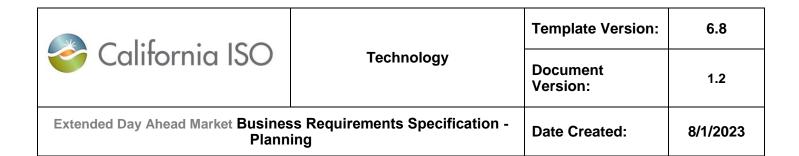
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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Any other resources with an association to a CRN (most will be ETC/TOR as defined in MF, or can be short term OATT sales) 		
EDAM-	Consume All CRN MW Entitlements	Core	Settlements
BRQ- 19025	System shall receive MW entitlement data with SC-submitted respective self-schedules for all CRNs after the market closes in both Day-Ahead and Real-Time.		
EDAM-	Consume DA CRN TSR Market Data from IFM	Core	Settlements
BRQ- 19026	Upon IFM market run, and similar to other IFM data, System shall consume the following IFM market results data:		
	 EDAM Transfer resource (DA TSR) IFM hourly awards/schedules of energy, AS, IRU/IRD 		
	DA TSR IFM hourly prices for Energy, AS, IRU/IRD		
	 Any other resource with an association to a CRN (receive limits from market for any short-term rights sold 		
EDAM-	Consume DA TSR Market Data from RUC	Core	Settlements
BRQ- 19028	Upon RUC market run, and similar to other RUC data, System shall consume the following RUC market results data:		
	DA TSR RUC hourly awards/Price of RCU/RCD		
EDAM- BRQ-	Consume DA RSE Deficiency and Procurement Requirement that include DB for EDAM BAA from DA-RSE	Core	Settlements
19030	Upon DA-RSE run, System shall consume the following DA-RSE market results data:		
	Hourly EDAM BAA		
	 RSE success/failure flags for upward and downward capacity 		
	 RSE upward requirement, requirement with DB and deficiency flag and amount (relax variable value) by commodities of upward Energy, RegU, Spin, NSpin, IRU, and deficiency upward (Energy & IRU) 		
	 RSE downward requirement, requirement with DB and deficiency flag and amount by Energy, RegD, IRD, and deficiency downward (Energy & IRD) 		
EDAM-	Fallback option for 16 hour block Hub price	Core	Settlements
BRQ- 19042	 For the fallback in cases where the bilateral index prices are not broadcasted to Settlements: If the data is not consumed by 		

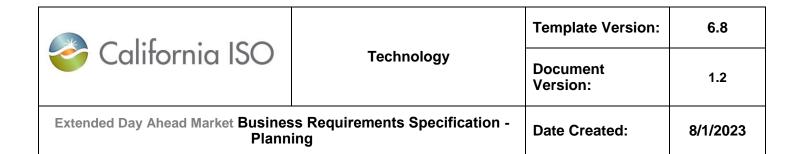


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	Settlements, it should use the most recently available on-peak prices.		
EDAM- BRQ- 19050	Consume GHG MW and GHG price Consume GHG constraint shadow price by GHG regulation area by hour – from IFM	Core	Settlements
EDAM- BRQ- 19051	Consume GHG MW and GHG price Consume resource deemed GHG MW by GHG regulation area by hour – from IFM	Core	Settlements
EDAM- BRQ- 19052	Consume DA TSR, Dynamic and static TSR schedules from RTPD and RTD Consume DA TSR schedule and attributes -include pathway, CRN (with enumeration contract type of TOR/ETC/OATT 1/OATT 2) from RTPD and RTD Consume Static and dynamic TSR schedule from RTPD and RTD	Core	Settlements
EDAM- BRQ- 19055	System shall consume interchange schedule breakdown by CRN data for EDAM/WEIM entities by market resource awards • EDAM/WEIM entities shall submit breakdown by CRN data via RTSI • Map CRN	Core	Settlements
EDAM- BRQ- 19056	System shall consume interchange schedule breakdown by CRN data for CAISO BA • Map CRN	Existing	Settlements
EDAM- BRQ- 19060	 IFM Energy, AS, convergence bids, IRU/IRD, RCU/RCD payment for EDAM resource-same as ISO resources in DAM: Hourly Energy supply and demand, CB of supply/demand schedule/award at LMP, import/export at SP-Tie price Hourly IRU/IRD awards at locational IRUP/IRDP price, import/export award at SP-Tie IRU/IRD price Hourly Settlements for AS at ASMP for the ISO (existing). No AS Settlements for EDAM BAA Hourly RCU/RCD award at locational RCUP/RCDP, import/export at SP-Tie RCU/RCD price 	Core DAME	Settlements

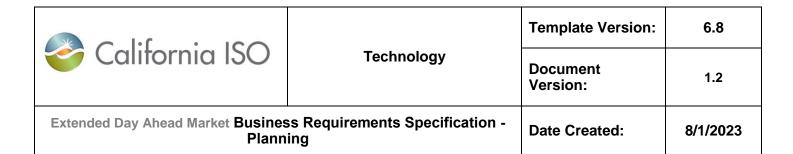


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM-	Extend DAM cost allocation for commodities to EDAM BAA	Core	Settlements
BRQ- 19062	 Extend to EDAM BAA DAM two tier cost allocation rules for energy. 	DAME	
	 AS Settlements for ISO - existing 		
	 Extend DAME two tier cost allocation for IRU/IRD, RCU/RCD cost allocation to EDAM BAA 		
	For IRU/IRD		
	 Tier 1 to the FMM and DA deviation of resources of the BAA for ISO only 		
	 Tier 2 remainder to metered demand of the BAA for ISO, direct assignment to EDAM BAAs 		
	For RCU/RCD:		
	 Tier 1 CB and load deviation for ISO and EDAM elected CB 		
	 Tier 2 remainder to metered demand for ISO, direct assignment to EDAM BAAs/Gen-only entity 		
EDAM-	Calculate Internal Congestion Revenue for EDAM Entity	Core	Settlements
BRQ- 19063	System shall calculate congestion revenue based on price differences in the MCC of the LMP across PNodes and interties within the EDAM Area.		
	Note		
	For the CAISO BAA, the congestion revenue associated with ISO allocation will be subject to Tariff §11 and adjusted for the ISO contracts.		
EDAM- BRQ- 19063a	OATT 1 and OATT 2 transmission contract types shall have scheduling priority similar to ETC/TOR, but OATT 1 and OATT 2 do not have financial hedge as provided to ETC and TOR	Core	Settlements
	Notes:		
	OATT 1: higher scheduling priority in RT than DA schedules		
	OATT 2: equal scheduling priority with DA schedules in RT		
	All other attributes for OATT 1 and OATT 2 are the same		
EDAM-	Allocate Internal Congestion Revenue to EDAM Entity	Core	Settlements
BRQ- 19064	System shall allocate collected EDAM BAA congestion revenue, adjusted for the EDAM contracts, to the EDAM Entity.		
EDAM-	DAM resource GHG payment	Core	Settlements
BRQ- 19070	 Access resource-specific MF defined flag for GHG regulation area Settlements 		

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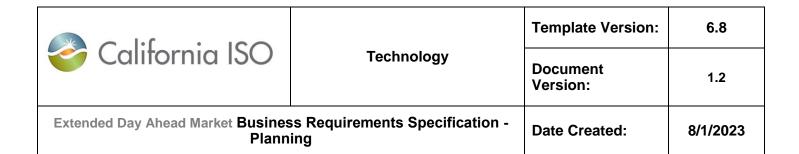


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Settle resource GHG payment as the product of Deemed GHG MW (attribution) of the GHG regulation area and GHG marginal GHG price for the GHG regulation area by hour for the resource 		
EDAM-	Include DAM GHG in GHG regulation area neutrality	Core	Settlements
BRQ- 19075	In DAM neutrality Settlements for EDAM footprint:		
19075	 Marginal GHG Offset for each GHG regulation area is the sum of the product of energy/CB award payment and MGC - GHG payment for that regulation area, allocate to that GHG regulation area's metered demand 		
EDAM-	Extend non-compliance in DAME to EDAM	Core	Settlements
BRQ-	 No change for ISO resource AS no-pay rule 	DAME	
19080	 Do not apply AS no-pay rule to EDAM BAA 		
	 Non-compliance for IRU/IRD for the portion of excess 5-min ramp capability through IFM IRU/IRD schedule, at the higher price of (IRP, FMM FRP, RTD FRP) for EDAM BAA and ISO 		
	 Non-compliance for RCU/RCD portion in RTM will claw-back the RCU/RCD payment for EDAM BAA and ISO 		
EDAM-	Calculate IFM Bid cost recovery for resource	Core	Settlements
BRQ- 19090	 IFM Commitment period, for each EDAM BAA, the value of Res IFM daily revenue (EN/IR/AS (for ISO) payment) including RES GHG revenue does not cover the cost (cost of Startup, min load, transition, energy bid, AS bid (for ISO), IR bid include GHG bid cost) is eligible for IFM BCR 	DAME	
	 Calculate IFM GHG bid cost as the product of IFM GHG award for each GHG regulation area and applicable GHG bid divided by the number of Settlements intervals in a trading hour 		
	 Calculate GHG revenue as product of IFM GHG award and relevant MGC 		
	 Imbalance reserve (IR) IRU/IRD payment and bid cost 		
EDAM-	IFM BCR adjustment calculation and transfer:	Core	Settlements
BRQ-	 Calculate hourly BAA total IFM BCR amount 		
19100	 Adjustment based on transfer out for the BAA (payment) 		
	IFM BCR adjustment = BAA Total IFM BCR Amount * (Net transfer out / sum of (Net transfer out + IFM Load schedule + IFM virtual demand schedule + IFM Export Schedule)		

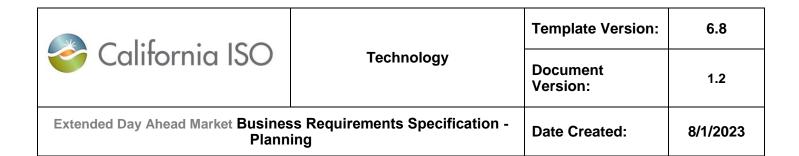


ID#	Business Feature		Requirement Type	Potential Application(s) Impacted
	 Calculate hourly dis transfer In for the B. 	tribution IFM BCR adjustment based on net AAs (charge)		
		nt distribution = IFM BCR Adjustment * BAA / Total of BAA IFM Transfer In		
	 Distribute total IFM transfer in 	BCR adjustment proration to BAA net		
	adjustment+ BCR d	ljustment (Total BAA BCR +BCR istribution by hour:, can be payment or to the EDAM entity by hour		
	 For ISO to allocate tier BCR allocation 	BCR adjustment amount, use existing two-		
EDAM- BRQ-	BAA DA-RSE Failure Surc Deficiency	harge Settlements – On-Peak Upward	Core	Settlements
19110	failing RSE BAA on bilateral trading Hub deficiency of the da	ate the surcharge for on-peak (PCT) for the 16-hour block as the higher price of the (PV, Mid-C) based on max of hourly y, adjusted for credit for the hours passed, scaling factors of tiers		
	 System shall calculated of 16 hour of on-pea 	ate the maximum of hourly upward deficiency ak of the day		
	value of def	of each hour is calculated by adding the iciency upward of energy, IRU, NSpin of the hour.		
	 System shall calculated BAA failed the RSE 	ate the surcharge Settlements for the EDAM upward evaluation		
	Tier 1			
	or BAA	m hourly deficiency less than Max of 10 MW forecast error for IRU, no surcharge (But not eligible for surcharge revenue)		
		Forecast error can be 1% (configurable) of IRU requirement in procurement that include DB		
	o Tier 2			
	procure	m hourly deficiency is less than the 50% ment (DB included) requirement of IRU, e surcharge		
	For 16 for each	nour of on-peak in TD, calculate surcharge n hour:		

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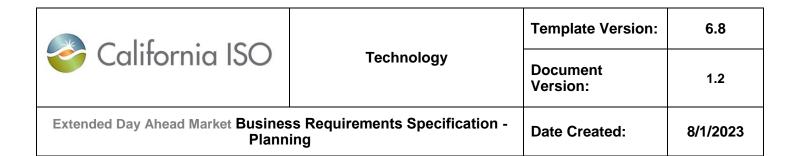
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	1.25*[max (0, (max interval shortfall* Hub price - (credit based on the weighted average IFM BAA LAP LMP for the BAA in RSE passed the hour))]		
	 Tier 3 Maximum hourly deficiency is larger than 50% procurement requirement IRU, calculate surcharge 		
	For 16 hour of on-peak in TD, each hour:		
	2*[max(0, (max interval shortfall*Hub price- (credit based on the weighted average IFM BAA LAP LMP for the BAA in RSE in passed the hour))]		
	Note: Hub Price is Bilateral trading Hub price (Mid-C PV)		
EDAM- BRQ-	BAA DA-RSE Failure Surcharge Settlements – Off-Peak Upward Deficiency	Core	Settlements
19115	System shall calculate Off-peak Upward deficiency surcharge on BAA LAP LMP, for each hour:		
	Tier 1		
	 Hourly deficiency less than max of 10 MW or BAA forecast error for IRU, no surcharge. BAA is not eligible for surcharge revenue 		
	• Tier 2		
	 Hourly deficiency is less than the 50% procurement requirement of IRU, calculate surcharge 		
	1.25*[(interval shortfall*BAA LAP LMP load weighted average)]		
	• Tier 3		
	 Hourly deficiency is larger than 50% requirement IRU, calculate surcharge 		
	2.0*[(interval shortfall*BAA LAP LMP load weighted average)]		
EDAM-	BAA DA-RSE Failure Settlements – Downward Deficiency	Core	Settlements
BRQ- 19120	For all the hours in any day, System shall calculate downward deficiency surcharge on BAA MEC LMP, for each hour:		
	 Calculate total amount of deficiency of each hour as the sum of downward deficiency of energy, IRD, RegD 		
	 Calculate downward deficiency surcharge as deficiency * BAA MEC LMP 		
	Note		



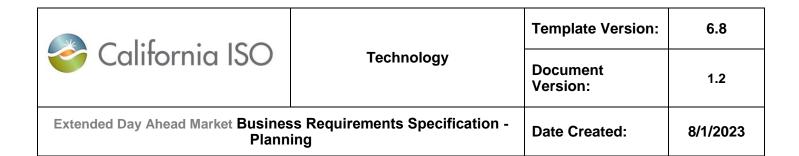
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	For downward deficiency, de Minimis is 10.0 MW and no surcharge		
EDAM- BRQ-	Increase Penalty 1% to On-Peak Upward Deficiency for every Additional Day of RSE Failure Retroactive 30 Day-Period	Core	Settlements
19130	For each EDAM BAA, System shall calculate the number of days on rolling 30 days for RSE upward failure (hours of upward failure count on-peak only)		
	System shall increase the penalty adders by 1% for every additional day a BAA failed the RSE test as an adder to tier 2 (base 1.25%) and tier 3 (base 2.0%)		
	 Example: One additional failed day—tier 2 penalty becomes 1.2625%, tier 3 penalty becomes 2.02% 		
	Note		
	This penalty increase is not applicable for off-peak upward nor downward deficiency.		
EDAM- BRQ-	Allocate DA RSE failure surcharge to EDAM entity SC of BAA that failed DA RSE	Core	Settlements
19140	Allocate each BAA surcharge to EDAM entity SC		
	TBD: If ISO BAA receive the surcharge, then allocate per ISO EDAM BAA initiative		
	Note: Subject to CAISO EDAM Participation Rules Initiative		
EDAM- BRQ- 19150	Allocate DA RSE failure surcharge revenue to EDAM entity SC passed DA RSE, up/down separately	Core	Settlements
	Allocate upward Surcharge Revenues to the EDAM BAA SCs with upward passed DA-RSE flags for all the hours of the day. An EDAM BAA will become ineligible for allocation of any upward surcharge revenue if it fails the EDAM RSE in the upward direction during any hourly interval across the day		
	 Allocate upward surcharge revenue pro-rata on volume of net export transfer, include energy transfer and IRU, RCU transfer of BAA by hour 		
	 Allocate remaining upward surcharge revenue pro-rata to metered demand of BAA that passed upward test 		
	Allocate downward Surcharge Revenues to the EDAM BAA SCs with downward passed DA-RSE flags for all the hours of the day. An EDAM BAA will become ineligible for allocation of any downward surcharge revenue if it fails the EDAM RSE in the downward direction during any hourly interval across the day		

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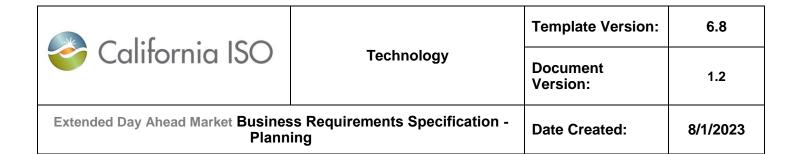
Business Feature	Requirement Type	Potential Application(s) Impacted
 Allocate downward surcharge revenue pro-rata on net import transfer of BAA, include energy and IRD, RCD by BAA, hourly, 		
 Allocate remaining of downward surcharge revenue to the metered demand of BAA that passed DA-RSE downward test 		
Backstop allocation: if no EDAM BAA avoids failure upward/downward for 24 hours, revert to hourly allocation	Core	Settlements
 If no EDAM BAA pass all 24 hours the DA RSE upward test, revert to hourly 		
 For each hour, the BAA that passed DA RSE upward test will be eligible to receive the upward surcharge revenue for the hour, same allocation pro-rata to BAA 		
 If no EDAM BAA pass all 24 hours the DA RSE downward test, revert to hourly 		
 For each hour, the BAA that passed DA RSE downward test will be eligible to receive the downward surcharge revenue for the hour, same allocation pro-rata to BAA net import 		
No EDAM passed for a given hour, then the Surcharge revenue allocation will not be collected		
Calculate DA TSR Transfer Revenue for Energy, IRU/IRD and RCU/RCD	Core	Settlements
System shall calculate the hourly DA TSR Transfer Revenue for each TSR for each commodity type as the product of DA TSR transfer quantity times the difference between import and export EDAM BAA locational price for the corresponding commodity type:		
o Energy:		
 Energy Transfer quantity 		
 EDAM BAA IFM energy LMP component (MEC) 		
o IRU/IRD		
 IRU/IRD Transfer quantity 		
·		
· · · ·		
	 Allocate downward surcharge revenue pro-rata on net import transfer of BAA, include energy and IRD, RCD by BAA, hourly, Allocate remaining of downward surcharge revenue to the metered demand of BAA that passed DA-RSE downward test Backstop allocation: if no EDAM BAA avoids failure upward/downward for 24 hours, revert to hourly allocation If no EDAM BAA pass all 24 hours the DA RSE upward test, revert to hourly For each hour, the BAA that passed DA RSE upward test will be eligible to receive the upward surcharge revenue for the hour, same allocation pro-rata to BAA If no EDAM BAA pass all 24 hours the DA RSE downward test, revert to hourly For each hour, the BAA that passed DA RSE downward test will be eligible to receive the downward surcharge revenue for the hour, same allocation pro-rata to BAA net import No EDAM passed for a given hour, then the Surcharge revenue allocation will not be collected Calculate DA TSR Transfer Revenue for Energy, IRU/IRD and RCU/RCD System shall calculate the hourly DA TSR Transfer Revenue for each TSR for each commodity type as the product of DA TSR transfer quantity times the difference between import and export EDAM BAA locational price for the corresponding commodity type: Energy Energy Transfer quantity EDAM BAA IFM energy LMP component (MEC) IRU/IRD IRU/IRD Transfer quantity EDAM BAA IFM IRU/IRD price. 	Allocate downward surcharge revenue pro-rata on net import transfer of BAA, include energy and IRD, RCD by BAA, hourly, Allocate remaining of downward surcharge revenue to the metered demand of BAA that passed DA-RSE downward test Backstop allocation: if no EDAM BAA avoids failure upward/downward for 24 hours, revert to hourly allocation If no EDAM BAA pass all 24 hours the DA RSE upward test will be eligible to receive the upward surcharge revenue for the hour, same allocation pro-rata to BAA If no EDAM BAA pass all 24 hours the DA RSE downward test, revert to hourly For each hour, the BAA that passed DA RSE downward test, will be eligible to receive the downward surcharge revenue for the hour, same allocation pro-rata to BAA net import No EDAM passed for a given hour, then the Surcharge revenue allocation will not be collected Calculate DA TSR Transfer Revenue for Energy, IRU/IRD and RCU/RCD System shall calculate the hourly DA TSR Transfer Revenue for each TSR for each commodity type as the product of DA TSR transfer quantity times the difference between import and export EDAM BAA locational price for the corresponding commodity type: Energy Transfer quantity EDAM BAA IFM energy LMP component (MEC) IRU/IRD IRU/IRD IRU/IRD RCU/RCD RCU/RCD RCU/RCD RCU/RCD RCU/RCD RCU/RCD RCU/RCD RCU/RCD RCU/RCD RCU/RCD



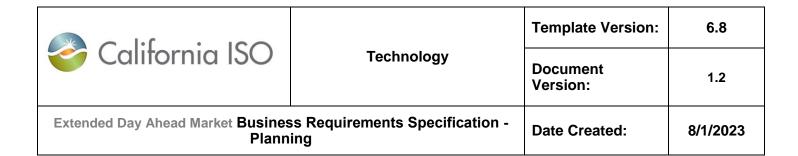
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	 System shall calculate the hourly total DA TSR transfer revenue as the summation of DA TSR transfer revenues across all commodity types (Energy, IRU, IRD, RCU, and RCD). 		
EDAM- BRQ-	Allocate DA TSR Transfer Revenue for Energy, IRU/IRD and RCU/RCD	Core	Settlements
19170	 If the DA TSR is not a pathway 2, System shall allocate the DA TSR Transfer Revenue 50/50 (equally) between the two EDAM BAAs on each side of the TSR (including CAISO BAA). 		
	DA-TSR pathway 2 direct Settlements		
	 Consume DA TSR pathway 2 identifier from SIBR (transmission right released to the market in advance) 		
	 For pathway 2 DA TSR, SC of pathway 2 direct receives revenue. The DA TSR market award considers the curtailment; can be less than the transmission right originally released. 		
	 For CAISO BAA allocation, refer to ISO BAA EDAM Participation Rules Initiative 		
EDAM-	RT energy TSR in RTM WEIM subject to Settlements	Core	Settlements
BRQ- 19172	 Access MF defined base, static/dynamic WEIM TSR with associated SC, CRN and NSC if applicable 		
	 Settle TSR with NSC if it is defined, or SC if there is no associated NSC 		
	 Consume the RTSI submitted self-schedule for the TSR with CRN 		
	 Settlements applies to both paired TSRs, 		
	 Settlements applies to all WEIM TSRs explicitly (note: a change from current WEIM) 		
EDAM-	Calculate WEIM transfer Revenue	Core	Settlements
BRQ- 19173	Calculate EIM Transfer revenue		
	 Product of transfer and BAA MEC 		
	 Add paired WEIM TSR revenues 		
	Note: When the net EIM Transfer scheduling limit is binding, there will be separation of the Marginal Energy Cost (MEC) of the adjacent BAAs in the EIM. Then the EIM transfer revenue will be non-zero. If the limit is not binding, no separation of MEC of adjacent BAAs, therefore EIM transfer revenue will be zero.		



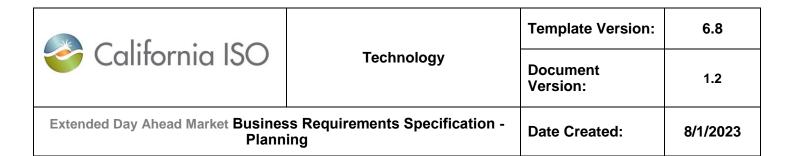
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EDAM-	Allocation of WEIM transfer revenue	Core	Settlements
BRQ- 19174	 Allocate transfer 50%:50% equally to the BAAs of each side of intertie, EIM entity will sub-allocate 		
	Except specified sharing arrangement as following:		
	 For the CAISO BAA, allocate to SC of ETC/TOR holders consistent with the terms of the agreement concerning use of the transmission facilities supporting the EIM Transfer; 		
	 For an EIM Entity BAA that does not participate in the Day- Ahead Market in accordance with the associated EIM Transmission Service Provider tariff; and 		
	 For a WEIM Entity BAA that participates in EDAM 		
	 TSR are not pathway 2, allocate the EIM Transfer revenue to the EIM Entity Scheduling Coordinator for further allocation by the EIM Transmission Service Provider in accordance with its tariff, 		
	 TSR is pathway 2, allocate the EIM Transfer revenue to the Scheduling Coordinator for the EDAM Transmission Service Provider customer, or 		
	 TSR is EDAM Legacy Contact or EDAM Transmission Ownership Right, allocate the EDAM Transfer revenue to the Scheduling Coordinator for the EDAM Legacy Contact or EDAM Transmission Ownership Right holder, respectively. 		
	 Perfect hedge for the TSR that associate with CRN (ETC/TOR), 		
	 The cost goes to imbalance energy offset 		
EDAM- BRQ-	Settlements for EDAM legacy Contracts, Ownership rights (ETC/TOR/OATT 1/ OATT 2) with CRN- allocate to EDAM entity	Core	Settlements
19175	 Access the resources with CRN from MF 		
	 SC Self-scheduled energy using their transmission right will settle at the LMP 		
	 For the balanced portion of schedule eligible for mitigation against Congestion 		
	 Reversing the Marginal Cost of Congestion component of the LMP difference between the balanced source Day-Ahead Schedule and sink Day-Ahead Schedule, in the same manner as for ISO ETC/TOR 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Include the congestion cost in the IFM congestion revenue offset—then allocate to EDAM entity 		
	The resource with special marginal losses provisions (defined in MF) will reverse the Marginal Cost of Losses component of the LMP		
	Allocate the Marginal Cost of Losses to EDAM entity		
EDAM-	Refund the cost with Financial SC for CRN	Core	Settlements
BRQ- 19176	 If the CRN includes a financial right (marginal congestion and/or loss hedge), Settlements will refund the relevant cost (even if it is negative) to the Financial SC registered for the CRN (multiple SCs can self-schedule under the CRN, but only the Financial SC can receive the financial right) 		
EDAM-	DAM Neutrality Settlements:	Core	Settlements
BRQ- 19200	 DAM Marginal Loss Offset: sum of product of BAA energy/CB award and MCL of EDAM BAA, allocate to EDAM entity and for ISO, to ISO measured demand 		
	 DAM Marginal Congestion Offset: sum of product of BAA energy/CB award and MCC breakdown of the EDAM BAA, allocate to EDAM entity, for ISO to CRR balance account apply to ISO CRR -1B 		
	 DAM Marginal GHG Offset: sum of BAA energy/CB award payment and MGC-GHG payment, allocate to GHG regulation area/non-GHG regulation area metered demand 		
	 DAM Marginal energy offset: sum of BAA energy/CB award and LMP less the MCL/MCC/MGC offsets, allocate to EDAM entity and ISO measured demand 		
EDAM- BRQ-	RTM Settlements: use EDAM DAM schedule instead of Base schedule	Core	Settlements
19210	Same as for CAISO, WEIM shall use DAM schedule instead of the base schedule for reference point to calculate the imbalance energy.		
EDAM- BRQ-	RTM Settlements: RTM Resource Energy deviation Settlements from EDAM, like ISO	Core	Settlements
19220	For EDAM resources:		
	FMM IIE, use IFM schedule as reference point		
	Load UIE = load meter - IFM load schedule of EDAM BAA		
	UIE and UFE apply to EDAM BAAs like ISO		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	UFE selection apply to EDAM BAA (only deal with meter side of it)		
EDAM- BRQ- 19230	RTM Settlements: RTM Resource GHG deviation Settlements from EDAM RTM GHG (FMM) is a deviation Settlement from IFM GHG Settlements (FMM GHG attribution less DAM GHG) for the external resources that serve GHG area load, pay to the resource RTM GHG (RTD) is a deviation Settlements from FMM GHG Settlements (RTD GHG less FMM GHG) for the external resource serve GHG area load, pay to the resource -existing	Core	Settlements
EDAM- BRQ- 19240	 RTM Settlements: RTM Resource TSR deviation Settlements from EDAM ◆ The CAISO will provide each EIM Entity with financially binding Settlements of Energy transfer schedule changes will be referenced from the Day-Ahead Schedule for the EDAM Transfer ◆ RTM transfer TSR is a deviation Settlements from IFM Energy transfer ⋄ FMM transfer shall settle as a deviation from DA, if applicable (FFM IIE) at LMP* of SP-tie between WEIM BAAs, including the ISO ⋄ RTD transfer shall settle as a deviation from RT (RTD IIE) at LMP* of SP-tie between WEIM BAAs, including the ISO 	Core	Settlements
EDAM- BRQ- 19250	RTM Settlements: RTM Resource FRP forecast movement deviation Settlements from EDAM Extending to EDAM FRP forecast movement imbalance from IFM forecast movement and uncertainty is an imbalance Settlements of 5 minute ramp portion from DAM FMM forecast – IFM (EDAM) or Base (EIM) forecast movement For RTD to FMM no pay will not change RTM Settlements: Under/over schedule charge shall not apply to	Core	Settlements
BRQ- 19260	EDAM BAAs Same as for CAISO in WEIM, no under/over schedule charge is applied to EDAM BAAs	Cole	Semements

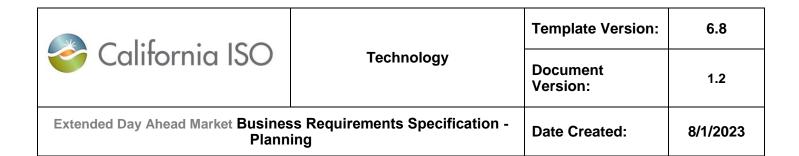


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	RTM Settlements: Treat EDAM pool, sub-pool of AET, non-AET as a super BAA	Core	Settlements
19270	 Consume the upward pool, sub-pool of AET/non-AET from market 		
	 WEIM RSE failure surcharge shall be applied to the insufficient amount of WEIM RSE the sub-pooled AET EDAM BAAs: 		
	 Allocate surcharge proportionally to net import transfer beyond net DAM/base net transfer BAAs in upward AET sub-pool 		
	 The Non-AET Sub-pool will not be subject to surcharge. 		
	 AET surcharge revenue is allocated to the BAA that pass the RSE and have net export transfer beyond base net export transfer 		
EDAM-	For the upward Pool that passed EIM-RSE:	Core	Settlements
BRQ- 19272	 The pool is not subject to the AET surcharge, regardless BAA in the pool is a net import BAA 		
	 Allocate the surcharge revenue to BAAs and the pool of BAAs that passed RSE, proportional to BAA/pool net transfer export beyond base 		
	 For the pool that receives the surcharge revenue 		
	 Allocate proportionally to the BAA in the pool that have net export transfer beyond base 		
EDAM- BRQ- 19274	EDAM BAAs in the EDAM RSE downward pool will not be charged/receive AET surcharge/revenue, but can be added to the RT RSE pool	Core	Settlements
EDAM-	RTM Settlements: Real Time Offset Settlements	Core	Settlements
BRQ-	Real Time Marginal Loss Offset is unchanged		
19280	Real Time Congestion Offset		
	 Include any adjustment to account for schedules associated with EDAM transmission rights 		
	 Real Time Imbalance Energy Offset: modified to account for imbalance energy, virtual bids at marginal energy cost 		
	 Remove financial value transfer and GHG financial value 		
l	 RT offsets for each BAAs, allocate to EDAM/WEIM entity and ISO measured demand per Tariff –existing 		

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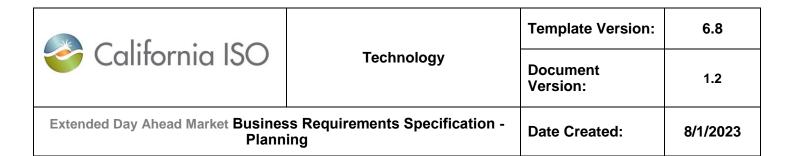
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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 19282	Access MF defined GHG area and associated DAM GHG area resources and RTM GHG area resources	Core	Settlements
	Example:		
	CA: GHG area		
	Associate:		
	DAM: CAISO resources		
	RTM: CAISO+LA+BANC resources		
EDAM-	Real Time GHG Offset:	Core	Settlements
BRQ- 19284	 Imbalance energy, virtual bids MW in GHG regulation area at marginal GHG cost 		
	 Imbalance GHG attribution associated to the GHG regulation area and GHG marginal price 		
	The offset determines if there is neutrality		
	 Allocate neutrality to the GHG regulation area metered demand 		
EDAM-	DAM GHG Offset	Core	Settlements
BRQ-	Energy schedule/CB award and MGC-GHG price		
19286	 GHG DAM attribution associated to the GHG regulation area and GHG marginal price 		
	Allocate neutrality to GHG regulation area DAM IFM schedule load.		
EDAM-	Intertie deviation penalty shall apply to ISO only	Core	Settlements
BRQ- 19287	 No Intertie Deviation penalty for other EDAM/WEIM BAAs, only for ISO 		
EDAM-	RT system offsets across WEIM footprint for each BAAs	Core	Settlements
BRQ- 19288	 Imbalance, GHG allocate to EDAM entity and ISO measured demand 		
	Add RT system offset apply to WEIM area consider FMM RTD		
EDAM- BRQ- 19289	UFE Settlements election process shall apply to EDAM BAA as well as WEIM BAAs	Existing	Settlements



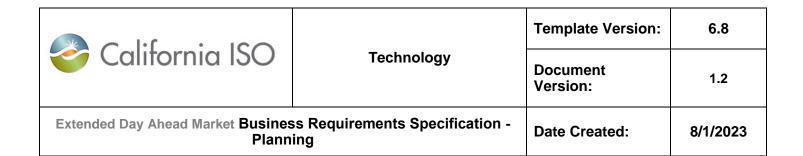
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-	RTM Settlements: Reversal (liquidation) settle at FMM LMP for CB EDAM resource DAM awards	Core	Settlements
19290	Same as for CAISO: Supply/Demand awards for virtual resources will be reversal (demand/Supply) settled in FMM LMP for EDAM resource with CB awards		
EDAM-	RTM Settlements: RUC BCR for net surplus/shortfall for EDAM	Core	Settlements
BRQ- 19291	For each EDAM BAA, calculate RUC surplus/shortfall for each resource that awarded RCU/RCD		
	 Calculate Res RUC Revenue (RCU/RCD payment less no-pay) 		
	 RCU award at RCU price less no-pay 		
	 RCD award at RCD less no pay 		
	 Sum them together 		
	 Calculate Res RUC Cost (RCU/RCD commitment and Bid Cost for the RUC award less no-pay amount) 		
	 RCU commitment cost less no-pay 		
	 RCD commitment cost less no-pay 		
	 Sum them together 		
	Net RUC revenue and cost, determine surplus/shortfall		
EDAM-	RTM Settlements: RTM BCR for net surplus/shortfall for EDAM BAA	Core	Settlements
BRQ- 19293	 Res RTM Revenue (IIE, AS, FRP GHG Settlements) 		
19293	 Res RTM Costs include (SUC, MLC, TC, IIE bid cost, AS bid cost, GHG bid cost) 		
	Sum them together		
	 Net the RTM revenue and cost, determine surplus/shortfall 		
EDAM- BRQ-	EDAM BAA will have BCR sequential netting apply between RUC surplus/RTM shortfall, as well as RUC shortfall/RTM surplus	Core	Settlements
19294	 The value of sequential netting RUC revenue and RUC cost, RTM revenue and RTM cost Res, daily revenue not cover the cost is eligible for RTM BCR 		
	 EIM sequential netting of RUC and RTM Bid Cost Uplift 		
	 Within each EIM BAA, do sequential netting of RUC and RTM Bid Cost Uplift similar to CAISO BAA 		
EDAM-	RUC BCR allocation adjusted for net transfer	Core	Settlements
BRQ-	After sequential netting, the RUC BCR adjustment shall apply:		
19295	 Apply RUC transfer adjustment to RUC BCR 		

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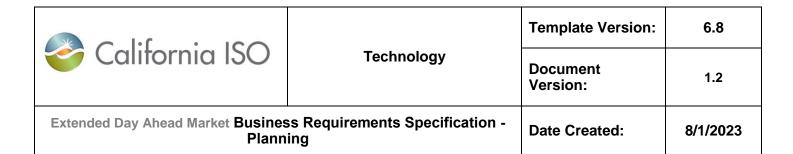


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	 RUC BCR adjustment = Total BAA RUC BCR Amount * (Reliability Capacity Net transfer out / sum of (Reliability Capacity (RC) Net transfer out + measured demand) 		
	 RUC BCR Adjustment distribution = RUC BCR Adjustment * BAA Reliability Capacity Net Reliability Capacity Transfer In / (Total of all BAA net Reliability Capacity Transfer In) 		
	 For EDAM BAA, RUC BCR costs shall be allocated to entity 		
	 For ISO, RUC BCR in alignment with RCU cost allocation, to net virtual supply and under scheduled load -DAME 		
	Note: RUC RC net transfer quantity equal to RC up less RC down, to determine the net transfer out/in		
EDAM-	HASP reversal shall apply to EDAM BAA IFM intertie schedule	Core	Settlements
BRQ- 19296	Same as ISO, EDAM BAA's Intertie schedules awarded an energy schedule in the day-ahead market that subsequently have an incremental/decremental FMM schedule change in the RTM and did not submit an energy profile tag prior to HASP, will be subject to the HASP reversal rule applied through settlements		
	HASP reversal does not apply to transfer		
EDAM-	Implementation fee	Core/process/	Finance
BRQ- 19297	 The CAISO will recover the cost to implement each EDAM Entity, which may vary depending on the size and complexity of the project 	finance	
	 A \$300,000 deposit will be collected from prospective EDAM Entities to cover the actual start-up costs incurred. If the deposit exceeds the actual cost incurred to provide onboarding services, the CAISO will refund the excess amount, including any Interest accrued on the remaining deposit 		
	 If the actual implementation costs exceed the deposit, additional deposits in \$300,000 increments will be required, which the EDAM Entity must pay within thirty (30) days of receiving the invoice. Any invoice payment past due will accrue interest 		
EDAM- BRQ- 19298	EDAM administrative fees (GMC)	Core	Settlements
	 EDAM Administrative charge: volumetric charge (Settlements) 		
	 Existing market service represents fees for the real-time market and the day-ahead market services that EDAM offers and applies to awarded MWh of energy and MW of capacity 		

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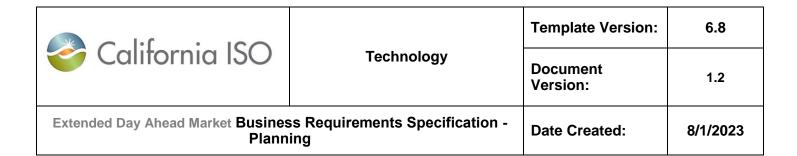


ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 EDAM system operations charge represents the fees for real time dispatch services that EDAM offers and it applies to metered flows in MWh of supply and demand 		
	 Once a WEIM entity begins participating in the EDAM, it will no longer pay WEIM administrative fees, only EDAM administrative fees 		
	 Charge EDAM Administrative charge on daily basis if BAA is a EDAM or WEIM BAA 		
	 If Entity leaves EDAM and goes back to just WEIM, WEIM Administrative charge shall apply 		
	 TOR/ETC GMC fee does not apply to EDAM, only apply as today. EDAM TOR/ETC will be treated as normal resource. 		
	Note: Subject to change under New Cost of Service Initiative		
EDAM-	Flexible Ramp Forecasted Movement Settlements	Core	Settlements
BRQ- 19370	 The system shall calculate FRU and FRD FMM forecasted movement as a deviation Settlements from DA forecasted movement 		
	 The system shall calculate FRU and FRD RTD forecasted movement as a deviation Settlements from FMM forecasted movement 		
EDAM-	Flexible Ramp Forecasted Movement Allocation	Core	Settlements
BRQ- 19380	 System shall allocate FRU and FRD FMM and RTD forecasted movement Settlements to the pass group, or BAAs or pool that fail: 		
	 For BAAs that fail WEIM RSE, allocate to WEIM BAA that failed EDAM AET sub-pool, and EDAM RSE non- AET sub-pool based upon pro-rata metered load of those pools or BAAs 		
EDAM-	Uncertainty Up Settlements	Core	Settlements
BRQ- 19390	 The system shall settle FMM FRU awards as a deviation Settlements from the 5-minute ramp capable imbalance reserve award at the FMM FRU price 		
	 The system shall settle RTD FRU awards as a deviation Settlements from the FMM FRU awards at the RTD FRU price 		
EDAM-	Uncertainty Up Allocation	Core	Settlements
BRQ- 19400	 The system shall allocate the total RTM FRU uncertainty cost through the two-tier allocation methodology based upon the FRU pass group, or BAAs/pool that fail 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 If the EDAM Pool fails the WEIM RSE test, the BAAs associated with the EDAM pool will create two sub- groups based on their AET elections (AET and non- AET). 		
	 WEIM-only BAAs that fail the WEIM RSE will be assessed as standalone BAAs. 		
	 The WEIM BAAs and EDAM Pool that pass the WEIM RSE shall be grouped together in the FRU pass group. 		
	0		
EDAM-	Uncertainty Down Settlements	Core	Settlements
BRQ- 19410	The system shall settle FMM flexible ramp uncertainty awards as a deviation Settlements from the 5-minute ramp capable imbalance reserve award at the FMM FRD price		
	The system shall settle RTD flexible ramp uncertainty awards as a deviation Settlements from the FMM FRD awards at the RTD FRD price		
EDAM-	Uncertainty Down Allocation	Core	Settlements
BRQ- 19420	 The system shall allocate the total RTM FRD uncertainty cost through the two-tier allocation methodology based upon the FRD pass group, or BAA/pool that failed 		
	 The EDAM Pool that fails the WEIM Downward RSE test shall settle as an EDAM BAA group 		
	0		
EDAM- BRQ-	CAISO's assessment and payment of charges to, and collection of charges from, EDAM Market Participants	Existing Process	Settlements
19430	With regard to the CAISO's assessment and payment of charges to, and collection of charges from, EDAM Market Participants pursuant to Sections 11 and 33.11, and 29.11, the CAISO will assess, pay, and collect such charges, address disputed invoices, assess, pay and collect Settlements-related fees and charges, including those under Sections 11.21, 11.28, and 11.29, and make any financial adjustments in accordance with the terms and schedule set forth in Section 11		
	Settlements shall publish trade day statement, invoice, and support data automatically		
EDAM-	Creditworthiness	Process	Finance
BRQ- 19440	EDAM Entity Scheduling Coordinators, EDAM Load Serving Entity Scheduling Coordinators, and EDAM Resource Scheduling Coordinators must comply with the creditworthiness requirements of the CAISO Tariff.		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	In the event EDAM Entity Scheduling Coordinators, EDAM Load Serving Entity Scheduling Coordinators, or EDAM Resource Scheduling Coordinators fail to satisfy the credit or other requirements in Section 12, the consequences specified in Section 12 will apply.		
EDAM- BRQ- 19450	Dispute Resolution Confirmation and validation of any dispute associated with the participation of EDAM Market Participants in the Day-Ahead Market is subject to Section 11.29.8 and will be managed through the CAISO's customer inquiry, dispute, and information system and as provided in the Business Practice Manual for the Extended Day-Ahead Market. EDAM Market Participants will be subject to dispute resolution pursuant to Section 13	Existing Process	Settlements
EDAM- BRQ- 19460	FRP Monthly Resettlement Up Allocations	Existing Process	Settlements
EDAM- BRQ- 19470	Monthly Resettlement Down Allocations	Existing Process	Settlements
EDAM- BRQ- 19480	Calculate IR congestion revenue Calculate congestion revenue for supply as product of the award of IR and IR MCC of LMP by BAA Calculate the aggregated IR adjusted requirement on aggregated MCC of IRMP (IR requirement less the demand curve adjustment) IRUR/IRDR by BAA IRUS/IRDS by BAA Deployment factor by IRU/IRD Aggregate IRUMP/IRDMP (all the location of IRUR/IRDR allocated) and components by BAA (MP of IR and MCC for IR congestion, no loss and no GHG)	Core	Settlements
EDAM- BRQ- 19490	Force Majeure, Indemnity, Liabilities, and Penalties The provisions of Section 14 regarding Uncontrollable Force, indemnity, liability, and penalties will apply to the participation of EDAM Market Participants in the Day-Ahead Market	Existing Process	Settlements
EDAM- BRQ- 19500	Good faith negotiations (neutrality):	Process	Settlements

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	The CAISO shall be authorized to levy additional charges or make additional payments as special adjustments in regard to:		
	 Amounts required to reach an accounting trial balance of zero in the course of the Settlement process in the event that the charges calculated as due form CAISO Debtors are lower than payments calculated as due to the CAISO Creditors for the same TD 		
	 Awards payable by or to the CAISO pursuant to good faith negotiations or CAISO ADR Procedures that the CAISO is not able to allocate to or to collect from a MP in accordance with Tariff Section 13.5.3 		

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California ISO		Document Version:	1.2
Extended Day Ahead Market Busines Plann		Date Created:	8/1/2023

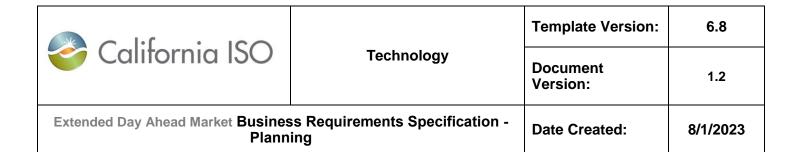
5.14 Business Process: Manage Market Reporting (CMRI, OASIS, Today's Outlook)

- Extend DAM reports, results, and schedules to EDAM
- Report DA RSE binding and final results and pool compositions
- Report DA TSRs and tags
- Report GHG attributions (DA and RT)

5.14.1 Business Requirements

	5.14.1 Busiliess Requirements	Requirement	Potential
ID#	Business Feature	Туре	Application(s)
EDAM- BRQ- 20000	Extend DA Market Results to EDAM resources	Existing	CMRI
EDAM- BRQ- 20010	New Report shall be accessible to transmission customers and EDAM entity on each side of the transfer	Core	CMRI
20010	 Limit, RSE flag, and pathway 2 (BAA level) 		
EDAM- BRQ-	New Report shall be accessible to transmission customers and EDAM entity SCs on each side of the transfer	Existing	CMRI
20011	 Limit, RSE flag, and pathway 2 (resource level) 		
EDAM- BRQ-	New Report shall be accessible to transmission customers and EDAM entity on each side of the transfer	Core	CMRI
20013	 New dropdown: TSR transfer resource used capacity after DAM 		
EDAM- BRQ-	Create new report for DA GHG Attributions to include multiple GHG areas for Resource SC	Core	CMRI
20020	 GHG Area: CA Attributions (CA GHG Awards) 		
	 GHG Area: WA Attributions (WA GHG Awards) 		
EDAM- BRQ-	Create new report for DA GHG Attributions to include multiple GHG areas for Resource SC	Core	CMRI
20022	 New product: Resource GHG reference point from GHG pass 		
EDAM- BRQ- 20023	Create new report for DA GHG Attributions to include multiple GHG areas for Resource EDAM entity	Core	CMRI
	 GHG Area: CA Attributions (CA GHG Awards) 		
	GHG Area: WA Attributions (WA GHG Awards)		
EDAM- BRQ- 20024	Create new report for DA GHG Attributions to include multiple GHG areas for EDAM entity	Core	CMRI

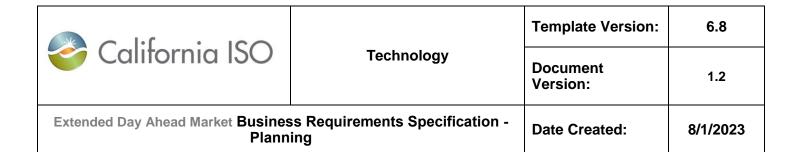
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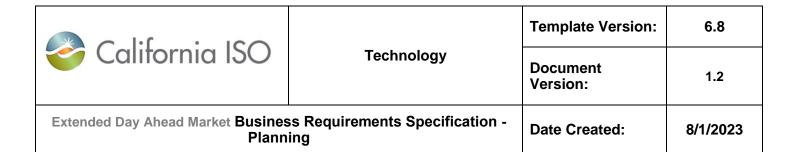
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 New product: Resource GHG reference point from GHG pass 		
EDAM- BRQ- 20030	Create a new report for RT (include both FMM and RTD) GHG Attributions to include multiple GHG Areas for Resource SC	Core	CMRI
	 GHG Area: CA attributions (CA GHG Awards) 		
	 GHG Area: WA attributions (WA GHG Awards) 		
EDAM- BRQ- 20031	Create a new report for RT (include both FMM and RTD) GHG Attributions to include multiple GHG Areas for EDAM entity	Core	CMRI
	 GHG Area: CA attributions (CA GHG Awards) 		
	GHG Area: WA attributions (WA GHG Awards)		
EDAM-	Extend DA Commodity Price Report to EDAM resources	Existing	CMRI
BRQ- 20040	 Generation Commodity prices for Energy, IRU/IRD, and RCU/RCD. 		
	 Import-Export Commodity prices for Energy, IRU/IRD, and RCU/RCD. 		
	 Demand Commodity Prices for Energy 		
EDAM- BRQ- 20050	New report for both Resource Specific Advisory and Binding/Final 10 am RSE Run reports made available for the resource SC	Core	CMRI
	 Resource Awards for Energy, IRU/IRD, AS 		
EDAM- BRQ- 20051	New report for both Resource Specific Advisory and Binding/Final 10 am RSE Run reports made available from the EDAM Entity	Core	CMRI
	 Resource Awards for Energy, IRU/IRD, AS 		
EDAM- BRQ-	Allow the EDAM entity to view all resource schedules within the EDAM entity BAA	Core	CMRI
20054	Include:		
	 Day-Ahead Generation Market Results (Generator schedules within the EDAM BA) 		
	a. Energy, IRU/IRD, RCU/RCD		
	Day-Ahead Demand Market Results (Load schedules within the EDAM BA)		
	3. DA Import-Export Schedules (within the EDAM BAA)		
	 Day-Ahead Ancillary Service Market Results (AS Schedules) 		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	5. Day-Ahead Unit Commitments (DA commitment)		
	Grouped as part of a new "BAA Day-Ahead" tab		
EDAM- BRQ- 20057	New report for interchange schedule data broken down by CRN for both EDAM/WEIM entities and CAISO BA	Core	CMRI
EDAM-	Extend DAM reports to EDAM BAAs	Existing	OASIS
BRQ- 20065	 Includes DAM Demand, IRU/IRD, RCU/RCD requirements, transfer of EN/IR//RC, MPM, LMP, polynomial coefficients, public bids, and uplift Settlements reports. 		
	Final list of impacted reports TBD		
EDAM- BRQ-	Publish EDAM BAA and WEIM BAA level constraint MPM results for DAM and RTM	Existing	OASIS
20068	 Market (IFM, RUC, RTPD, RTD) 		
	• BAA		
	 Interval 		
	Constraint PBC		
	Constraint cause		
	 Shadow price: as the difference between BAA MEC and ISO MEC (similar to current constraint shadow price reports) 		
EDAM- BRQ-	New Report for Aggregated/BAA Level Final/Binding 10 am RSE Report to EDAM BAAs	Core	OASIS
20070	 EDAM BAA RSE hourly upward requirement, requirement with DB and deficiency (relax variable value) by commodities of upward Energy, RegU, Spin, NSpin, IRU (upward deficiency for Energy & IRU together) 		
	 EDAM BAA hourly downward requirement, requirement with DB and deficiency by Energy, RegD, IRD (Downward deficiency EN & IRD together) 		
	 Include pass indicator to denote the BAs that passed the RSE and IFM/RUC PBC constraint: DA RSE Pass Indicator: provide the binding DA RSE pass/fail results 		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 IFM Pass Indicator: provide the post IFM PBC results RUC Pass indicator: provide the post RUC PBC results 		
	Note: WEIM counterpart report is being moved from CMRI to OASIS as part of RSEE Phase 2 scope.		
EDAM-	New Report for Aggregated RSE Advisory Run Results	Core	OASIS
BRQ- 20080	 Report DAM-RSE advisory test schedules and pass/fail results to EDAM BAAs in same manner as for WEIM for each resource 		
	 Include pass indicator to denote the BAs that passed RSE: DA RSE Pass Indicator: provide the advisory DA RSE pass/fail results Provided every 30 minutes 		
EDAM- BRQ-	New Aggregated RSE requirement movement between EDAM BAAs	Core	OASIS
20082	 Consume hourly requirements, procurement requirement with DB, and RSE adjusted requirement by commodity by BAA for energy, AS and IRU, IRD 		
	 Report the hourly RSE requirement, DB adjusted requirement and TSR adjusted requirement by commodity by EDAM BAAs for every RSE runs between 6 am and 10 am 		
EDAM- BRQ-	New publish: Hourly advisory IRU/IRD requirements for each EDAM BAA for D+2 and D+3	Core	OASIS
20084	Publish hourly IRU/IRD advisory requirements for EDAM BAA for D+2 and D+3		
EDAM-	New Publish Net Transfer DA TSR	Core	OASIS
BRQ- 20090	 BAA aggregated net transfer DA TSR by energy, IRU/IRD, RCU/RCD 		
EDAM- BRQ- 20100	New Publish: total net GHG Import Transfer deemed for each GHG regulation area by market type	Core	OASIS
	 Breakdown for each market type (DA, FMM, RTD) for each GHG regulation area (CA and WA) 		
	Note: previously called "Export Allocations" now called "Import Transfers		



ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 20110	New Report for the status of the transmission and energy profiles of the e-Tag as a result from the DAM award for system resources and TSR Resources (3 hours after DAM result publication)	Core	OASIS
	 Consume EDAM entity submitted import schedules tag MW (from SIBR) three hours after DAM close 		
	 Publish gross amount of import intertie schedules that are tagged (including import transfers) for each EDAM entity 		
	 E.g. 500 MW gross intertie schedule, 450 MW are tagged (50 MW un-tagged) 		
EDAM- BRQ-	New Publish composition of Upward and Downward Pool at T-5 hours (5 hours before operating hour)	Core	OASIS
20120	 Consume EDAM Entity Tagging shortfall and resupply tests (from SIBR) at T-5 hours (5 hours before operating hour) 		
	Gross import schedule		
	Gross import tagged		
	 Gross upward re-supply: Aggregate incremental energy bid range above DA schedule, unencumbered by upward capacity awards 		
	 Publish composition of upward EDAM pool and downward EDAM pool and which BAAs are not included in the pools 		
	Note: the composition of the Upward pool is determined by entities that pass the resupply test;		
	The composition of the downward pool is determined by DA RSE test results		
	This report will have to put the two data sets together		
EDAM- BRQ- 20130	New Publish DA load forecasts for EDAM entities for each RSE run	Core	OASIS
	 Consume DA LF for EDAM Entity from pre-market for each DA RSE run. 		
	Forecasts shall be locked at 9 am		
EDAM- BRQ- 20140	New Publish DA VER forecasts for EDAM entities for each RSE run	Core	OASIS

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	 Consume DA VER forecast for EDAM Entity from pre- market for each DA RSE run. 		
	 Break down forecasts by resource type (solar vs. wind) 		
	 Forecasts shall be locked at 9 am 		
EDAM- BRQ- 20145	Extend Flexible Ramp Requirements Input polynomial and Input uncertainty histograms for EDAM pools and subpools at Day-ahead and TH-5 hr	Core	OASIS
	 Consume the FRP estimates for EDAM up/down pools and AET/non-AET sub-pools at the time that DAM result posted or at TH-5hr 		
	 Publish Flexible Ramp Requirements Input polynomials by hour (HE01-HE24), by corresponding BAA group (EDAM pools or sub-pools), by market (RTPD and RTD), by the time of estimation (DA or TH- 5 hr) 		
	 Publish Flexible Ramp Requirements Input uncertainty histograms by hour, BAA group, market, and time of estimation 		
EDAM-	Extend TD+90 Public Bids Reporting to EDAM	Core	OASIS
BRQ- 20150	 Publish anonymized bids for energy, IRU/IRD and RCU/RCD products for EDAM entities 		
EDAM- BRQ-	EDAM Net Export Transfer Constraint Input Parameters (new report):	Core	OASIS
20156	System shall publicly display the following input parameters to the Net EDAM Export Transfer Constraint for each EDAM BAA (ISO BAA inclusive), Trade Date, Trade Hour:		
	- EDAM BAA ID (filterable, inclusive of ISO BAA)		
	- Trade Date (filterable)		
	- Trade Hour (filterable)		
	- Reliability Margin		
	- Confidence Factor		
	- Activation Flag		
	- Stressed Hour (for ISO BAA only)		
	- Reason Code		
	- Reason Comment		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Multiple filters shall be cumulative. All reported fields shall be sortable and retrievable through API query by public viewers under the guidelines of Acceptable Use.		
EDAM- BRQ- 20245	 Add EDAM data to Today's outlook Include EDAM entity data in Demand, Supply, Emissions, and Prices tabs 	Core	Today's Outlook
EDAM- BRQ- 20260	No NPM related reports for the BAs that join EDAM Access Master File defined NPM, EDAM	Process	CMRI, OASIS

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5.15 Manage FERC Reporting

- Publish EDAM Market Data to FERC
- Publish EDAM Settlements Data to FERC

5.15.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ- 20227	Extend Publish of DAME-related data to EDAM to FERC System shall extend consume, store and publish FERC DAME data to EDAM.	Core	Internal ISO System
EDAM- BRQ- 20230	Publish EDAM Market Data to FERC System shall have the capability to automatically consume, store and publish the following data to FERC: • EDAM binding Market Data, including DAM-RSE data	Core	Internal ISO System
EDAM- BRQ- 20240	Publish EDAM Settlements Data to FERC System shall have the capability to automatically consume, store and publish the following data to FERC: • EDAM Settlements Charge Codes	Core	Internal ISO System
EDAM- BRQ- 20242	Consume/Access, Store and Publish DR LF Adjustment Data to FERC System shall the capability to automatically consume/access, store and publish the following data for EDAM BAAs to FERC: • ALFS-DF-Submitted DR LF Adjustments • STF- DR LF Adjustments	Core	Internal ISO System

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5.16 Business Process: Manage Outages (WebOMS)

• Allow EDAM entity to activate/deactivate constraints

5.16.1 Business Requirements

5.16.1 Business Requirements			
ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EDAM- BRQ-22049	Allow EDAM entity to access Market Impact Tab in WebOMS	Core	WebOMS AIM
	 Access MF defined EDAM Entity and associated EDAM BAAs 		Auvi
	 Allow EDAM entity to access the WebOMS Market Impact Tab for the EDAM BAAs 		
	 EDAM Entity access (view, submit and modify) to Market Impact tab shall only be restricted to Contingency and Flowgate. 		
	 Real-Time Market Operator (RTMO)'s access to Market Impact shall be expanded to EDAM Entity's transmission outages. 		
	 System shall be updated to display TOPA for each contingency on Market Impact tab. 		
	 EDAM Entity shall only be able to view/modify Market Impacts on outage cards created by their computed Transmission Operator Provider (TOP). 		
	 Other TOPs that are not EDAM participants shall not be allowed to view the Market Impacts tab on any outage card, including their own. 		
	EDAM Entity shall not have the ability to view the Market Impacts (contingency/flowgates) on transmission outages where they are not the participant creating the outage but they are one of the computed TOPs if the outage card has shared equipment belonging to this EDAM Entity.		
EDAM- BRQ-22050	Allow EDAM entity to activate/deactivate constraints	Core	WebOMS
	Consume EDAM entity submitted status of activate/deactivate constraints through API/UI		
	o Flowgate		

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	Contingencies		
	 CAISO operators shall continue to use Outage cards to set the status of constraints as they do today 		
	Notes		
	 DAM will use the latest set of Activated/De-activated constraints statuses that are consumed before DAM market runs (by 9 am, enforced by DAM). 		
	 The number of activated constraints will be limited to 15 per EDAM Entity (managed outside WebOMS). 		
	 Support incremental changes on default status of constraints. 		
	 MOC is not currently available for EDAM BAAs. 		
	 OE to determine the flowgate enforcement only or include conformance available to EDAM BAA. 		

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5.17 Business Process: Market/Business Simulation

This section shall provide a basis for the development of the Market/Business Simulation Scenarios. These requirements will provide guidance on the market participant impacts, inputs into the Scenarios, endpoints to the Scenarios and reasons for potential Scenarios. The guidance on market participant impacts shall be gathered from the requirements that impact rules, interfaces, applications/reports, new system processes, new/modified data models, and new user roles. The source and sink systems shall be determined through the development of the system context diagram and the web service requirements. The *Reason for the Potential Scenario* column will be to offer guidance regarding what potential scenarios, and their context, may be needed for this project. This section applies to all policy development projects, market enhancements, technology enhancements, operation enhancements, Energy Imbalance Market (EIM) implementations, and Reliability Coordination (RC) service implementations. If the project team has deemed that no structured testing is needed, an end-to-end test case must be specified.

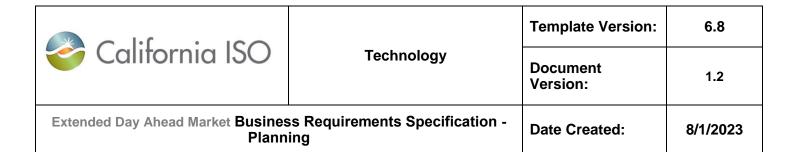
In the Reason for Potential Scenario column, select one or more of the following reasons:

- **1. Rule Impacts**: Generalized changes in market rules, bidding rules, settlements rules, market design changes, or other business rules.
- 2. Interface changes: Changes that impact templates (e.g., the Resource Adequacy (RA) supply plan), user interface (UI), and application programming interface (API) (e.g., retrievals of new shadow Settlements data).
- **3. New application/report**: Changes that cause addition/modification of market software or reports, especially when market data input is required by the market participant.
- **4. New system process**: Modification of data flow in systems, especially if the new process requires the market participant to demonstrate proficiency prior to production.
- **5. New/Modified model data**: Addition or substantial modification of model data as a market solution or export provided by the ISO.
- **6. New user role**: The addition or modification of access permissions for a user role applied to specific business units within an EIM entity or market participant organization (e.g., Load Serving Entity (LSE) as a Local Regulatory Authority (LRA) role). Scenarios are beneficial for market participants taking on a new function or process within their organization.

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5.17.1 Business Requirements

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
EDAM- MSIM- BRQ- 24020	EDAM Market Simulation pre-condition On condition of On-boarding entity Connectivity EDAM entity operator Training Interface, integration SC submit bids	TBD	TBD • SIBR	EDAM On-Boarding 1. Rule
MSIM- BRQ- 24040	Entity shall submit AS requirements EDAM resource SC shall submit supply, demand bids, Submit CB bids, GHG bids for the GHG area, IRU/IRD bids, RCU/RCD bids All resources including non-participating will need integration ISO run and publish market award and Locational prices, Settlements		BAAOPCMRIOASISSettlements	Impacts 2. Interface changes 3. new application /report 4. New system process
EDAM- MSIM- BRQ- 24060	EDAM entity, TO submit TSR limits Submit TSR limits Market will associate the attributes: RSE, pathway, and CRN	• MP	SIBRBAAOPCMRIOASISSettlements	1. Rule Impacts 2. Interface changes 3. new application /report 4. New system process



ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
EDAM- MSIM- BRQ- 24080	RSE Host App on-demand	• EDAM Entity	• RSE HA	2. Interface changes 3. new application /report 4. New system process Owner: A. Vaidya
EDAM- MSIM- BRQ- 24100	DA-RSE tests Entity view the test at 6 am, 9 am, and 10 am RSE result ISO run RSE, publish results	DA-RSE	SIBRBAAOPCMRIOASISSettlements	1. Rule Impacts 2. Interface changes 3. new application /report 4. New system process
EDAM- MSIM- BRQ- 24120	EDAM GHG pass and GHG award Entity to submit GHG bids ISO runs GHG pass and IFM Publish GHG resource reference, and GHG awards	GHG Reference Pass	SIBRBAAOPCMRIOASISSettlements	1. Rule Impacts 2. Interface changes 3. New application /report 4. New system process

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ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
EDAM- MSIM- BRQ- 24140	EDAM entity submit DA schedule TSR tags ISO to check the tags to determine the EDAM pools in RTM RSE	• RTSI	RTMCMRIOASIS	Rule Impacts
EDAM- MSIM- BRQ- 24160	Net transfer out constraints, adjustment Net transfer out constraint activation Activate the nomogram –depending on further discussion with OEdevelop procedure for EDAM before 10 am. Later, if allow on-fly as for ISO today ISO shall enforce the constraint	• BAAOP	• DAM	2. Interface changes
EDAM- MSIM- BRQ- 24220	Settlements for EDAM EDAM resource Settlements extended from DAM, and DAME TSR for En/IR/RC EDAM Administrative charge Surcharge for RSE failure RTM deviation Settlements for En/GHG/FRP/TSR BCR	Settlements	Settlements	
EDAM- MSIM- BRQ- 24240	 DR LF Adjustment Submission via ALFS-SOA API (refer to RSEE2-MSIM-10140) Set up a scenario where EDAM Entity participants signed required attestation and submit DR LF Adjustments via ALFS-SOA API (that reflect Non-Participating DR Schedules), on LF zone level, to CAISO. Run market (DAM). Follow the results in the sink systems. 	ALFS-SOA	CMRI OASIS	Rule Impact New/Modified model data

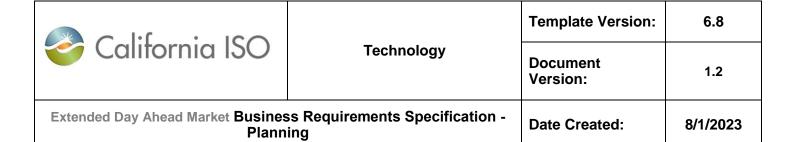
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Appendices

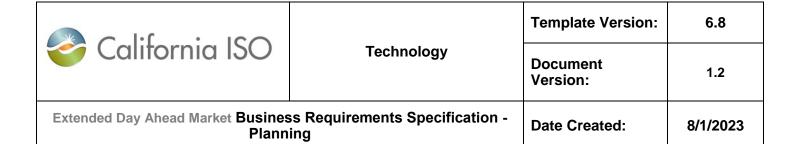
Appendix A: Formulas, Calculation Details, and Examples

Appendix A0: Acronym Definition

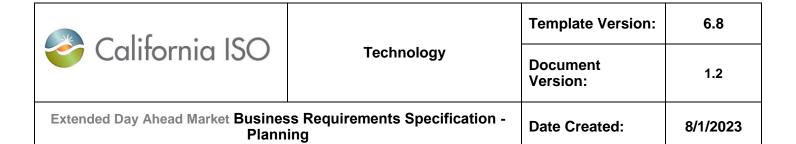
Acronym	Definition
A2A	Application-to-Application
ABC	Available Balancing Capacity
ACL	Access Control List
ADS	Automatic Dispatch System
AET	Assistance Energy Transfer
AGC	Automatic Generation Control
AIM	Access and Identity Management
AM	Additional Margin
AMS	Agreement Management System
ALFS	Automated Load Forecast System
Anode	Aggregate Node
API	Application Program Interface
Apnode	Aggregate Pricing Node
AS	Ancillary Services
AUX	Auxiliary
B2B	Business-to-Business
ВА	Business Analyst
ВАА	Balancing Authority Area
ВААОР	Balancing Authority Area Operations Portal



Acronym	Definition
BARC	Balancing Authority Requirements Calculator
BCR	Bid Cost Recovery
ВРМ	Business Process Manual
BRS	Business Requirement Specifications
BSAP	Base Schedule Aggregation Portal
BSC	Base Schedule Coordinator
BSSD	(WEIM) Base Schedule Submission Deadline
CAISO	California Independent System Operator
СВ	Convergence Bidding
CC	Commitment Cost
CCDEBE	Commitment Costs and Default Energy Bid Enhancements
CDN	Conformed Dispatch Notice
CF	Confidence Factor
CIM	Common Information Model
CIP	Critical Infrastructure Protection
CIRA	Customer Interface for Resource Adequacy
CISO	California Independent System Operator
CLAP	Custom Load Aggregation Point
CMRI	Customer Market Results Interface
Cnode	Connectivity Node
COG	Constrained-Output Generator

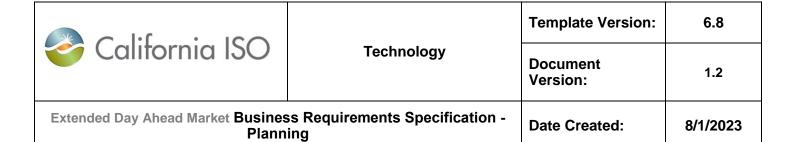


Acronym	Definition
СРМ	Capacity Procurement Mechanism
CRN	Contract Reference Number
CRR	Congestion Revenue Rights
CRRS	Congestion Revenue Rights Settlements (aka CRR Clawback system)
CSS	Critical Systems Support
DA	Day-Ahead
DAB	Default Availability Bid
DACA	Day-Ahead Contingency Analysis
DAECON	Day-Ahead Economic
DALPT	Day-Ahead Low Price Taker (low priority)
DAM	Day-Ahead Market
DAPT	Day-Ahead Price Taker (high priority)
DART	Day-Ahead Reliability Tool
DCPA	Dynamic Competitive Path Assessment
DCC	Default Commitment Cost
DEB	Default Energy Bid
DER	Distributed Energy Resource
DF	Demand Forecast
DGAP	Default Generation Aggregation Point
DLAP	Default Load Aggregation Point
DMLC	Default Minimum Load Cost

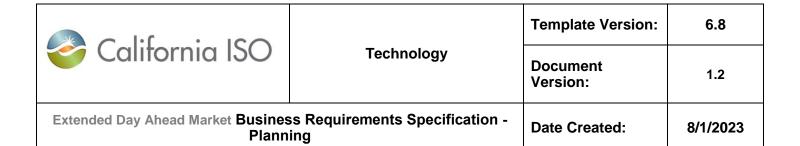


Acronym	Definition
DMM	Department of Market Monitoring
DOP	Dispatch Operating Point
DOT	Dispatch Operating Target
DR	Demand Response
DRP	Demand Response Program
DSA	Dynamic Stability Analysis
DSTC	Default State Transition Cost
DSUC	Default Start Up Cost
ECIC	Energy Costs and Index Calculator
ECON	Economic
ED	Exceptional Dispatch
EDAM	Extended Day-Ahead Market
EDR	Enterprise Data Repository
EE	Expected Energy
EEA	Expected Energy Allocation
EESC	Energy Imbalance Market Entity Scheduling Coordinator
EFC	Effective Flexible Capacity
EGAP	EIM Default Generation Aggregation Point
ELAP	EIM Load Aggregation Point
EMM	Enterprise Model Management
EMMS	Enterprise Model Management System

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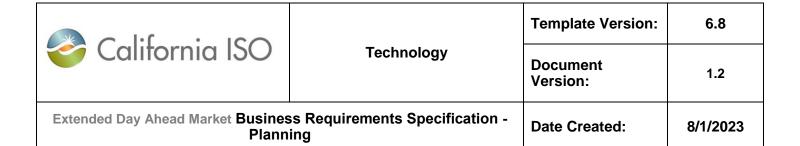


Acronym	Definition
EMNA	Energy Management Network Application
EMS	Energy Management System
EN	Energy
EPI	Electricity Price Index
ESP	Electronic Security Perimeter
ETC	Existing Transmission Contract
ETSR	Energy Transfer System Resources
FDR	Forecast Data Repository
FERC	Federal Energy Regulatory Commission
FMCA	Fifteen-Minute Contingency Analysis
FMM	Fifteen-Minute Market
FMU	Frequently Mitigated Unit
FNM	Full Network Model
FODD	FERC Outgoing Data Depository
FSP	Forecast Service Provider
FRCT	Forbidden Region Crossing Time
FRD	Flexible Ramp Down
FRU	Flexible Ramp Up
GDF	Generation Distribution Factor
GHG	Greenhouse Gas
GIP	Generator Interconnection Procedure

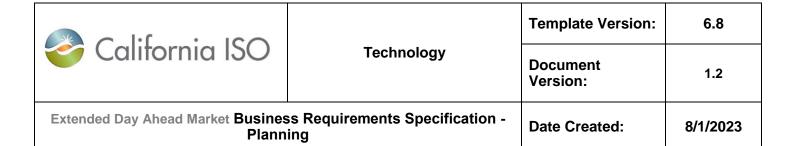


Acronym	Definition
GMC	Grid Management Charge
GPI	Gas Price Index
GRDT	Generator Resource Data Template
GUI	Graphical User Interface
Н	Hour
HASP	Hour-Ahead Scheduling Process
HAVGC	Heat Average Cost (for non-gas resources)
HR	Heat Rate
ICE	InterContinental Exchange
ICM	Infrastructure Contracts and Management
ID	Identifier
IFM	Integrated Forward Market
ISL	Intertie Scheduling Limit
ISO	California Independent System Operator
IOOC	Integrated Optimal Outage Coordination
IR	Imbalance Reserve
IRD	Imbalance Reserve Down
IRU	Imbalance Reserve Up
IT	Information Technology
ITC	Inter-Tie Constraint
ITPD	Information Technology Product Development

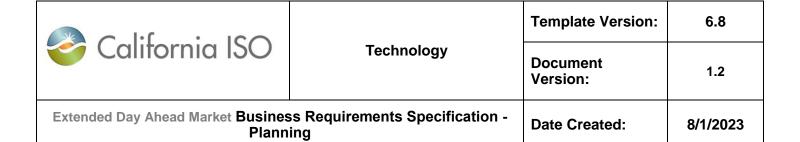
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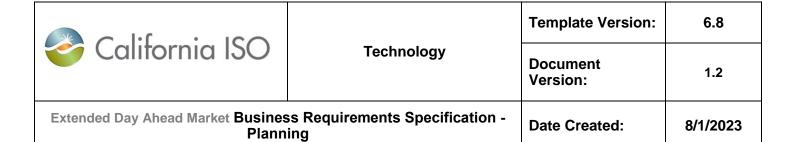
Acronym	Definition
ITS	Interchange Transaction Scheduler
ITSM	Information Technology Service Management
JOU	Joint Owned Unit
LACA	Look-Ahead Contingency Analysis
LAP	Load Aggregation Point
LDF	Load Distribution Factor
LEL	Lower Economic Limit
LFR	Lower Forbidden Region
LF	Load Forecast
LFZ	Load Forecast Zone
LMP	Locational Marginal Price
LMPM	Locational Market Power Mitigation
LOL	Lower Operating Limit
LPT	Low Price Taker (low priority)
LRA	Local Regulatory Authority
LRL	Lower Regulation Limit
LSE	Load Serving Entity
LTCA	Long-Term Contingency Analysis
MCI	Model and Contract Implementation
MD	Manual Dispatch
MDT	Minimum Down Time



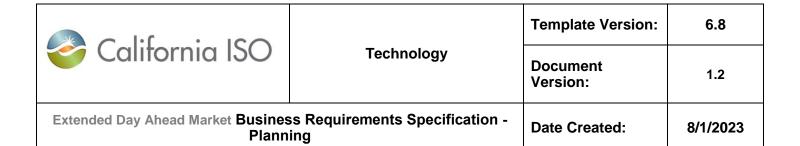
Acronym	Definition
MDS	Maximum Daily Startups
MEC	Marginal Energy (Cost) Component
MES	Market Engineering Services
MF	Master File
MF2SOA	Master File to Service-Oriented Architecture
MGC	Marginal Gas Cost
MLAC	Minimum Load Average Cost
MLC	Minimum Load Cost
MLHAVGC	Minimum Load Heat Average Cost (for non-gas resources)
MLHR	Minimum Load Heat Rate
MMA	Major Maintenance Adder
MMAMLC	Major Maintenance Adder for Minimum Load Cost
MMASUC	Major Maintenance Adder for Start Up Cost
MMASTC	Major Maintenance Adder for MSG State Transition Cost
MMG	Manage Markets & Grid
MMR	Manage Market & Reliability
MOS	Manage Operations Support & Settlements
МРМ	market Power Mitigation
MQS	Market Quality System
MRID	Master Resource Identifier
MRI-S	Market Results Interface – Settlements



Acronym	Definition
MSSA	Metered Sub System Agreement
MSG	Multi-Stage Generator
MSR	Mirror System Resource
MUT	Minimum Up Time
MV&A	Market Validation & Analysis
MVT	Market Validation Tool
N/A	Not Applicable
NA	Network Application
NDAB	Negotiated Default Availability Bid
NDEB	Negotiated Default Energy Bid
NGR	Non-Generating Resource
NM	Network Model
NPM	Nodal Price Model
NQC	Net Qualifying Capacity
NSI	Net Scheduled Interchange
OASIS	Open Access Same-time information System
OATI	Open Access Technology International
OATT	Open Access Transmission Tariff
OC	Opportunity Cost
occ	Opportunity Cost Calculator
ODCP	On Demand Capacity Procurement

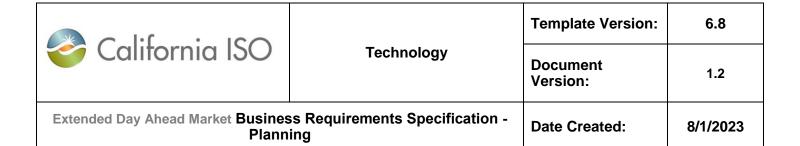


Acronym	Definition
OES	Operations Engineering Services
OMS	Outage Management System
ООМ	Out Of Market
OTS	Operations Training Simulator
PAM	Program and Application Management
PBC	Power Balance Constraint
PC	Pre-Calculation
PCA	Price Correction Admin
PCT	Price Correction Tools
PDR	Proxy Demand Resource
PI	Plant Information
PL	Participating Load
Pmax	Maximum Generation Capacity
Pmin	Minimum Generation Capacity
РМО	Program Management Office
PNM	Public New Mexico
Pnode	Pricing Node
POC	Point Of Contact
PRSC	Participating Resource Scheduling Coordinator
PSH	Pump Storage Hydro
PSTD	Power Systems Technology Development

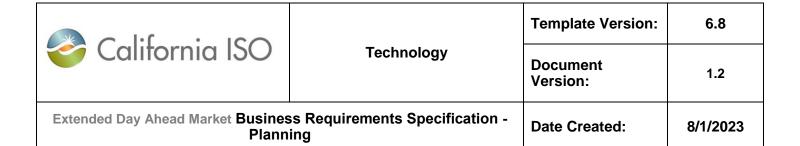


Acronym	Definition
PSTO	Power Systems Technology Operations
PT	Price Taker (high priority)
PTO	Participating Transmission Owner
PTP	Point to Point Transmission Service
QRB	Quality Review Board
RA	Resource Adequacy
RC	Reliability Coordinator (or Reliability Capacity up and down-depending on context)
RC-BSAP	Reliability Coordinator - Base Schedule Aggregation Portal
RCD	Reliability Capacity Down
RCSA	Reliability Coordinator Service Agreement
RCU	Reliability Capacity Up
RDOT	Ramping Dispatch Operating Target (a continuous piecewise linear curve connecting consecutive <i>DOT</i> s using their mid-interval points, from RTD, RTCD, or RTDD runs, as applicable)
RDRR	Reliability Demand Response Resource
RDT	Resource Data Template
REG	Regulation
REGD	Regulation Down
REGU	Regulation Up
REN	Reliability Energy
RES	Resource
RIG	Remote Intelligent Gateway
RIMS	Resource Interconnection Management System

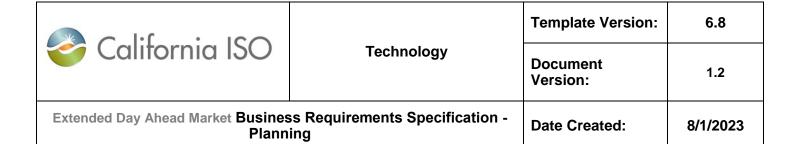
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Acronym	Definition
RMR	Reliability Must Run
ROPR	Operating Reserve Ramp Rate
RR	Ramp Rate
RREG	Regulation Ramp Rate
RSE	Resource Sufficiency Evaluation
RSEE	Resource Sufficiency Evaluation Enhancements
RT	Real-Time
RTBS	Real-Time Base Scheduler
RTCA	Real-Time Contingency Analysis
RTCD	Real-Time Contingency Dispatch
RTD	Real-Time Dispatch
RTDD	Real-Time Disturbance Dispatch
RTECON	Real-Time Economic
RTLPT	Real-Time Low Price Taker (low priority)
RTPD	Real-Time Pre-Dispatch
RTPT	Real-Time Price Taker (high priority)
RTM	Real-Time Market
RTMO	Real-Time Market Operator
RTUC	Real-Time Unit Commitment
RUC	Residual Unit Commitment
SADS	System And Design Specifications



Acronym	Definition
SC	Scheduling Coordinator
SCID	Scheduling Coordinator Identifier
SCME	Scheduling Coordinator Meter Entity
SDGAP	Super Default Generation Aggregation Point
SE	State Estimator
SIBR	Scheduling Infrastructure and Business Rules
SME	Subject Matter Expert
SOA	Service-Oriented Architecture
SP	Scheduling Point
SQMD	Settlements Quality Meter Data
SR	System Resource
SRS	System Requirement Specifications
SS	Self-Schedule
STC	State Transition Cost
STF	Short-Term Forecast
STC	State Transition Cost
STT	State Transition Time
STUC	Short-Term Unit Commitment
SUC	Start Up Cost
SUE	Start Up Energy
SUF	Start Up Fuel



Acronym	Definition
SURT	Start Up Ramp Time
SUT	Start Up Time
Т	Time/Trading Hour
TBD	To Be Determined
TD	Trade Day/Date
TEE	Total Expected Energy
TEP	Tucson Electric Power
TG	Tie Generator
TH	Trading Hub
TNA	Transmission Network Application
TOP	Transmission Operator Provider
ТОРА	Transmission Operator Provider Area
TOR	Transmission Ownership Rights
TR	Transmission Registry
TSR	Transfer System Resource
TTEE	Total Target Expected Energy (based on RDOT)
UAT	User Acceptance Testing
UEL	Upper Economic Limit
UFE	Unaccounted for Energy
UFR	Upper Forbidden Region
UI	User Interface

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Acronym	Definition
UIE	Uninstructed Energy Imbalance
UL	User Limited
UOL	Upper Operating Limit
URL	Upper Regulation Limit
VER	Variable Energy Resource
VOM	Variable Operations & Maintenance
VOMC	Variable Operations & Maintenance Cost
WebOMS	Web-based Outage Management System
WEIM	Western Energy Imbalance Market
XML	Extensible Markup Language
XSD	XML Schema Definition
ZIL	Zero Impedance Line

Appendix A1

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Appendix A2

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Appendix A3

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Appendix A7: Transmission right (ETC/TOR/OATT) sales examples

TRANSMISSION RIGHT OWNER (TRO) registered 100MW CRN is CRN_TRO_000 with TSR ids CRN_TRO_TSR_SOURCE_000 and CRN_TRO_TSR_SINK_000 (and the other transfer at Node). At 7am TRO sells 20MW to Buyer1. TRO will coordinate with EDAM_ENTITY so that EDAM_ENTITY submits the following CRN definition in SIBR, preferably by 9am:

CRN_TRO_001

Entitlement: 20 MW

Resource Ids: BUYER1_IMPORT_SR_SOURCE and BUYER1_EXPORT_SR_EDAM_ENTITY under the Buyer1 SC (these should be registered in MF)

TSR Ids: CRN_TRO_TSR_SOURCE_001 and CRN_TRO_TSR_SINK_001 (and the other transfer at Node) under the Buyer1 SC

Buyer1 submits 20MW self-schedule at the source/sink resources and the TSRs by 10am.

At 8:30am, TRO sells 50MW to Buyer2. TRO will coordinate with EDAM_ENTITY (the EDAM Entity) so that EDAM_ENTITY submits the following CRN definition in SIBR, preferably by 9am:

CRN_TRO_002

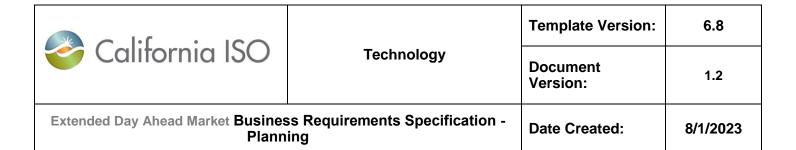
Entitlement: 50 MW

Resource Ids: BUYER2_IMPORT_SR_SOURCE and BUYER2_EXPORT_SR_EDAM_ENTITY under the Buyer2 SC (these should be registered in MF)

TSR Ids: CRN_TRO_TSR_SOURCE_002 and CRN_TRO_TSR_SINK_002 (and the other transfer at Tesla) under the Buyer2 SC

Buyer2 submits 50MW self-schedule at the source/sink resources and the TSRs by 10am.

At 8:55am (no more sales after 9am), TRO releases 10MW of CRN_TRO_000 to EDAM to receive transfer revenue (pathway 2). The remaining unused 20MW rights may be released by EDAM_ENTITY under the EDAM_ENTITY TSRs by 10am (pathway 3), or left unused for RTM.



Actor	TRANSMISSION RIGHT OWNER (TRO) TRO SC	EDAM_ENTITY(EDAMENT) EDAMENT SC	Buyer1 Buyer1 SC	Buyer2 Buyer2 SC
MF registe r resour ce	100MW CRN: CRN_TRO_000 TRO SC TSR ids: CRN_TRO_TSR_SOURC E_000 CRN_TRO_TSR_SINK_0 00	EDAMENT SC TSR id: EDAMENT_TSR_SOURCE_001 EDAMENT _TSR_SINK_001	Buyer1 SC Import/export resource ids: BUYER1_IMPORT_SR_SOURCE BUYER1_EXPORT_SR_EDAM_E DAMENT	Buyer2 SC Import/export resource ids: BUYER2_IMPORT_SR_SOURCE BUYER2_EXPORT_SR_EDAM_EDAMEN Tassoicate
Sale 1 at 7 am	Sale 20 MW CRN: CRN_TRO_001	Submit in SIBR by 9 am: CRN_TRO_001 for 20 MW CRN Dynamic create TSR ids and associate CRN_TRO_001 with following under buyer1: CRN_TRO_TSR_SOURCE_001 CRN_TRO_TSR_SINK_001 BUYER1_IMPORT_SR_SOURCE BUYER1_EXPORT_SR_EDAM_E DAMENT	Submit in SIBR by 10 am Self-schedule 20 MW for: CRN_TRO_TSR_SOURCE_001 CRN_TRO_TSR_SINK_001 BUYER1_IMPORT_SR_SOURCE BUYER1_EXPORT_SR_EDAM_E DAMENT	
Sale 2 at 8:30 am	Sale 50 MW CRN: CRN_TRO_002	Submit in SIBR by 9 am: CRN_TRO_002 for 50 MW CRN Dynamic create TSR ids and associate CRN_TRO_002 with following under buyer2: CRN_TRO_TSR_SOURCE_002 CRN_TRO_TSR_SINK_002 BUYER2_IMPORT_SR_SOURCE BUYER2_EXPORT_SR_EDAM_E DAMENT		Submit in SIBR by 10 am Self-schedule 50 MW for: CRN_TRO_TSR_SOURCE_002 CRN_TRO_TSR_SINK_002 BUYER2_IMPORT_SR_SOURCE BUYER2_EXPORT_SR_EDAM_EDAMEN T

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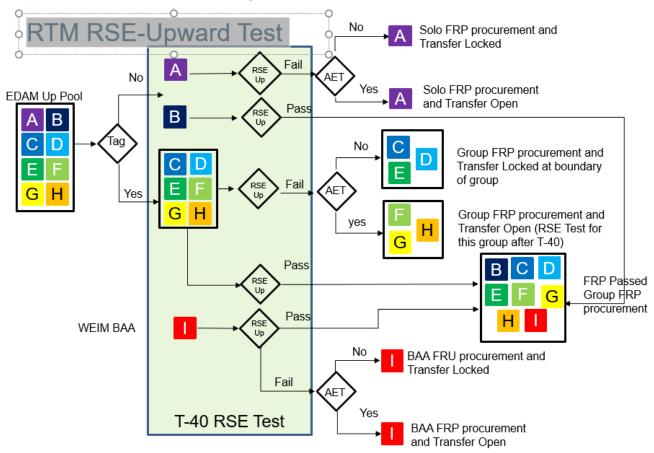
Pathw ay 2 releas e	Release 10 MW CRN to market by 9 am Submit TSR limits 10 MW in SIBR, deemed as pathway 2 CRN_TRO_TSR_SOURC E_000 CRN_TRO_TSR_SINK_0 00		
Pathw ay 3 releas e		Submit in SIBR by 10 am EDAMENT SC submit TSR limits up to 20 MW for market EDAMENT_TSR_SOURCE_001 EDAMENT_TSR_SINK_001	
Late- sched ule		Submit Self-schedule for TRO SC up to 20 MW through RTSI after 10 am until to TH-75min CRN_TRO_TSR_SOURCE_000 CRN_TRO_TSR_SINK_000	

Appendix A8

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Appendix A9: Business Flow Diagrams



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