

Business Requirements Specification

WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1)

Document Version: 41.1

Current Version Date: 3/4/20224/7/2022

California ISO Tec		Template Version:	5.1
	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

Revision	Revision History			
Date	Version	Description		
3/4/2022	1.0	Initial Document Release.		
4/7/2022	<u>1.1</u>	Section 1.3 (Overview and Scope)		
		 Added implementation note for Phase-1 to clarify that WEIM Sub-Entity related functionalities will not be implemented in this project. 		
		Section 5.1 (BPM)		
		 Removed RSEE-1060 from Market Operations BPM impact for RTM. 		
		 Added for Market Operations BPM impact for RSEE-1060 for the process of submission of non-participating DR schedules into ALFS. 		
		• RSEE1-1060-BRQ-01040		
		 Removed DR Inclusion Flag definition on LF Zone and replaced it with a flag on WEIM Entity or WEIM Sub-Entity level. 		
		• RSEE1-1060-BRQ-02010		
		 Added as business process for Submission of Non-Participating DR Schedules by WEIM BAAs and WEIM Sub-Entities. 		
		 RSEE1-1060-BRQ-02040, RSEE1-1060-BRQ-02120, RSEE1-1060-BRQ-02140, RSEE1-1060-BRQ-02160 		
		O Deleted.		
		• RSEE1-1010-BRQ-03110, RSEE1-1010-BRQ-03130		
		<u>o</u> Changed Requirement Type to Core.		
		 RSEE1-1010-BRQ-03110, RSEE1-1010-BRQ-03120, RSEE1-1010-BRQ-03130, RSEE1-1010-BRQ-03140, RSEE1-1010-BRQ-03180 		
		 Updated to make disqualifying rules higher priority and list the related BRQs in the note. 		
		 RSEE1-1010-BRQ-03110, RSEE1-1010-BRQ-03120, RSEE1-1010-BRQ-03200, RSEE1-1010-BRQ-03210 		
		 Clarified the note to include applicability to PSH resources. 		
		• RSEE1-1010-BRQ-03120		
		 Clarified the note for applicability to all startable MSG resources. 		
		• RSEE1-1010-BRQ-03120, RSEE1-1010-BRQ-03130, RSEE1-1010-BRQ-03140		
		 Clarified the note for calculation of available capacity for MSG resources as the highest value among all applicable MSG configurations. 		

Page 2 of 59 Doc ID: GNFDMDEHU6BB-46-53



Date	Version	Description
		• RSEE1-1010-BRQ-03130
		 Updated to include applicability to in-Transition state.
		• RSEE1-1010-BRQ-03160
		o Deleted it.
		• RSEE1-1010-BRQ-03170
		 Added as manual adjustments per the logic that will be documented in the BPM.
		• RSEE1-1010-BRQ-03190
		 Updated the rule to include continuous online statuses for all applicable RTPD intervals and use of available good quality telemetry and for RTPD advisory horizon to overlap with all RSE time intervals.
		O Deleted examples.
		 Added a note to reference examples in Appendix-B.
		 Added a note of inapplicability to PSH resources.
		• RSEE1-1010-BRQ-03210
		 Updated note about Outages inclusion of the SUT to add reference to Market Operations BPM section.
		• RSEE1-1060-BRQ-03575
		 Added for BAAOP to allow entry of DR LF Adjustments (that reflect Non- Participating DR Schedules) from WEIM Entity or WEIM Sub-Entity.
		• RSEE1-1060-BRQ-03600
		 Updated to have DR LF Adjustments entered on LF Zone via BAAOP.
		 Deleted the use of average hourly DR LF Adjustments in Balancing and Feasibility Tests.
		 Added a bullet for the use of hourly DR LF Adjustment for each of the corresponding 15-min interval for Capacity Teats and Flexible Ramping Test.
		• RSEE1-1060-BRQ-03620
		 Updated to include data that is submitted via API.
		• RSEE1-1060-BRQ-03680, RSEE1-1060-BRQ-03700
		O Deleted them.
		• RSEE1-1090-BRQ-04080

Doc ID: GNFDMDEHU6BB-46-53 Page 3 of 59

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

Date	Version	Description
		 Updated list of items to include Net Import/Export Base Schedule.
		 Clarified Incremental Capacity to be Incremental Bid Range Capacity, by direction.
		• RSEE1-1090-BRQ-04090
		 Added for existing system functionality of publishing BAA RSE Flexible Ramping Test Data in OASIS.
		• RSEE1-1090-BRQ-04100
		 Clarified Change in LF to be (including any DR LF adjustments).
		• RSEE1-1100-BRQ-04240
		 Corrected BRQ title to Flexible Ramping Test.
		• RSEE1-1100-BRQ-04260
		 Updated notes to add reference BRQ.
		• RSEE1-1060-BRQ-05100
		 Added for FERC data publishing.
		• RSEE1-1050-MSIM-07040
		O Deleted it.
		• RSEE1-1050-MSIM-07060
		 Deleted condition about load is not within 5% threshold.
		• RSEE1-1060-MSIM-07080
		 Deleted ALFS and replaced it with BAAOP.
		 Updated data submission by WEIM Entity.
		O Deleted RTM from market run.
		Appendix-B (Formulas, Calculation Details, and Examples)
		 Added examples for RSEE1-1010-BRQ-03190.

All information contained in this draft Business Requirements Specification (BRS) as provided by the California Independent System Operator Corporation (ISO) is prepared for discussion and information purposes only. The draft BRS is provided "as is" without representation or warranty of any kind, including, without limitation, a representation or warranty as to accuracy, completeness, or appropriateness for any particular purpose. The draft BRS shall be revised as the development and review of the business requirements progresses. The ISO assumes no responsibility for the consequences of any errors or omissions. The ISO may revise or withdraw all or part of this information at any time at its discretion without notice.

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

Doc ID: GNFDMDEHU6BB-46-53 Page 5 of 59

		Template Version:	5.1
California ISO	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S	,	Date Created:	3/4/2022

Table of Contents

1	Intro	oduction	8
	1.1	Purpose	8
	1.2	Conventions	8
	1.3	Overview and Scope	8
	1.3.1	1 Phase-1	8
2	Intel	llectual Property Ownership	10
	2.1	Checklist	10
3	Acro	onym and Terms Definitions	11
4	Deta	ills of Business Need/Problem	12
	4.1	Description	12
5	Busi	iness Impacts	14
	5.1	Business Practice Manual (BPM)	14
	5.2	Other	<u>17</u> 46
6	Busi	iness Requirements	<u>19</u> 48
	6.1	Business Process: Resource Management	<u>19</u> 48
	6.1.1	1 Business Requirements	<u>19</u> 18
	6.2	Business Process: Short-Term Forecasting – Load Forecast	<u>20</u> 19
	6.2.	1 Business Requirements	<u>20</u> 19
	6.3	Business Process: Manage RTM	<u>22</u> 20
	6.3.1	1 Business Requirements	<u>22</u> 20
	6.4	Business Process: Manage Market Reporting	<u>34</u> 31
	6.4.	1 Business Requirements	<u>34</u> 31
	6.5	Business Process: Manage FERC Reporting	<u>37</u> 34
	6.5.	1 Business Requirements	<u>37</u> 34
	6.6	Business Process: Manage Market Billing and Settlements	<u>38</u> 35
	6.6.	1 Business Requirements	<u>38</u> 35
	6.7	Business Process: <market business="" simulation=""></market>	<u>39</u> 36
	6.7.	1 Business Requirements	<u>39</u> 36
7	App	endices	<u>41</u> 38
	7.1	Appendix-A – Acronym Definition	41 38

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

7.2	Appendix-B: Formulas, Calculation Details, and Examples	54 51
		
7.2	2.1 RSEE-1010 – Consideration of Supply Conditions in the Capacity Test – Not Countin	g Failed-to-Start
Sh	nort-Start Units as Available Supply in the Capacity Test – Examples	5 451

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

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 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).

The purpose of this initiative is to implement enhancements to the WEIM Resource Sufficiency Evaluation (RSE). The CAISO and stakeholders reviewed several potential changes in the recent Market Enhancements for Summer 2021 Readiness initiative, where net-load uncertainty to the RSE's capacity test was implemented. This initiative's goal is to implement potential enhancements to ensure the RSE is administered accurately and applied equitably.

1.2 Conventions

None

1.3 Overview and Scope

CAISO proposes to bifurcate this initiative into two phases. This will allow the CAISO to implement enhancements that improve the accuracy and transparency of the RSE more quickly. The enhancements the CAISO proposes to implement include:

1.1.11.3.1 Phase-1

RSEE ID	Description
RSEE-1010	Consideration of Supply Conditions in the Capacity Test
RSEE-1020	Flexible Ramping Test Modifications – PBC
RSEE-1030	Consider a Resource's Transition through FOR in the Flexible Ramping Test.

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

RSEE ID	Description
RSEE-1040	RSE Modifications – Storage Resources Treatment
RSEE-1050	Balancing Test Modifications
RSEE-1060	DR Inclusion with RSE
RSEE-1070	Reliability of CAISO Interchange Schedules
RSEE-1090	Increased RSE Data on RSE Results and Additional Data Transparency and Reporting
RSEE-1100	Increased WEIM Entities Situational Awareness Regarding Test Performance
RSEE-1110	Net-Load Uncertainty Calculation Removal from Capacity Test
RSEE-1120	Intertie Uncertainty Calculation Removal from Capacity Test

Implementation Note:

• For RSEE-1060, WEIM Sub-Entity related functionalities will not be implemented in this project and will be deferred for implementation with WEIM Sub-Entity Scheduling Coordinator Role project.

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
VEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

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.

Doc ID: GNFDMDEHU6BB-46-53 Page 10 of 59

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

3 Acronym and Terms Definitions

Refer to Appendix-A – Acronym Definition Appendix-A – Acronym Definition

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

4 Details of Business Need/Problem

4.1 Description

Business Opportunity/Problem Statement:			
What:	Phase-1		
		RSEE ID	Description
		RSEE-1010	Consideration of Supply Conditions in the Capacity Test
		RSEE-1020	Flexible Ramping Test Modifications – PBC
		RSEE-1030	Consider a Resource's Transition through FOR in the Flexible Ramping Test.
		RSEE-1040	RSE Modifications – Storage Resources Treatment
		RSEE-1050	Balancing Test Modifications
		RSEE-1060	DR Inclusion with RSE
		RSEE-1070	Reliability of CAISO Interchange Schedules
		RSEE-1090	Increased RSE Data on RSE Results and Additional Data Transparency and Reporting
		RSEE-1100	Increased WEIM Entities Situational Awareness Regarding Test Performance
		RSEE-1110	Net-Load Uncertainty Calculation Removal from Capacity Test
		RSEE-1120	Intertie Uncertainty Calculation Removal from Capacity Test

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

Business Opportunity/Problem Statement:		
When:	Policy changes that require tariff amendments received WEIM governing body approval and Board approval. Implementation is expected by Summer 2022	
Why do we have this opportunity/problem:	The CAISO and stakeholders reviewed several potential changes in the recent Market Enhancements for Summer 2021 Readiness initiative. This initiative's goal is to continue reviewing potential enhancements to ensure the RSE is administered accurately and applied equitably with these principles: • RSE should accurately and transparently measure the capacity and ramping capability of a balancing authority area • The consequences of RSE failures should not cause operational or reliability issues • RSE does not dictate resource adequacy or integrated resource plans in individual balancing authority areas.	
Who does this opportunity/problem impact:	 Real-Time Operations MAF Market Participants Customer Service Policy Legal 	

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S		Date Created:	3/4/2022

5 Business Impacts

5.1 Business Practice Manual (BPM)

ВРМ	RSEE ID#	Description of Impact(s)
Demand Response	RSEE-1060	RSEE-1060 - Inclusion of DR in RSE Non-Participating DR Schedule <u>submission</u> process. ■Non-Participating DR Schedule
	(DR Inclusion with RSE)	
Western Energy Imbalance Market (WEIM)	RSEE-1010, RSEE-1020, RSEE-1030, RSEE-1040, RSEE-1060, RSEE-1070 Changes regarding suspending net lead uncertainty calculation from Capacity Test. RSEE 1120 Changes regarding suspending net lead uncertainty calculation from Capacity Test.	RTBS / RSE Changes
	RSEE-1110	Changes regarding suspending net-load uncertainty calculation from Capacity Test.
	(Net-Load Uncertainty Calculation Removal from Capacity Test)	

ВРМ	RSEE ID#	Description of Impact(s)
21	RSEE-1120	Changes regarding suspending Intertie uncertainty calculation from Capacity Test.
	(Intertie Uncertainty Calculation Removal from Capacity Test)	
Market Instruments	RSEE-1090 (Increased RSE Data on RSE Results and Additional Data Transparency and Reporting)	- RSEE-1090
	RSEE-1100 (Increased WEIM Entities Situational	CMRI/OASIS Changes
	Awareness Regarding Test Performance) RSEE-1060	BAAOP Changes
	(DR Inclusion with RSE)	
Market Operations	RSEE-1040, RSEE-1060 (RSE Modifications - Storage Resources	RTM Changes
	Treatment) RSEE-1060	Process of submission of non-participating DR schedules into ALFS.
Settlements and Billing	(DR Inclusion with RSE) RSEE-1050	RSEE-1050 Sattlements charge code configuration changes
		Settlements charge code configuration changes

Doc ID: GNFDMDEHU6BB-46-53 Page 15 of 59



ВРМ	RSEE ID#	Description of Impact(s)
	(Balancing Test Modifications)	

California ISO		Template Version:	5.1
	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S		Date Created:	3/4/2022

5.2 Other

Impact	RSEE ID#	Description (optional)
Market Simulation	RSEE-1020, RSEE-1050, RSEE-1060	• Yes
Market Participant Impact	RSEE-1060	 Attestations and Non-Participating DR Schedules submissions.
	(DR Inclusion with RSE) RSEE-1060	BAAOP changes.
	RSEE-1050	Settlements charge code configurations changes.
	(Balancing Test Modifications)	OASIS changes.
	RSEE-1090	<u>ortolo changes.</u>
	(Increased RSE Data on RSE Results and Additional Data Transparency and Reporting)	
	RSEE-1100	<u>CMRI and OASIS changes.</u>
	(Increased WEIM Entities Situational Awareness Regarding Test Performance)	
Market Simulation External Training	• Yes	Yes
	SEE-1010, RSEE-1020, RSEE-1030, RSEE-1040, RSEE-1050, RSEE-1060, RSEE-1070, RSEE-1090, RSEE-1100, RSEE-1110, RSEE-1120	

Impact	RSEE ID#	Description (optional)
Market Participant Impact Policy Initiative	■—RSEE-1060 □—1010, Attestations and Non- Participating DR Schedules submissions. ■—RSEE-1060 □—1020, RSEE- 1030, RSEE- 1040, BAAOP changes. ■—RSEE-1050 □—RSEE-1060, RSEE-1070, Settlements charge code configurations changes. ■—RSEE-1090 □——OASIS changes. ■—RSEE-1100 □ RSEE-1110, RSEE- 1120CMRI and OASIS changes.	Yes
External Training	Yes	
Policy Initiative	Yes	
Tariff Modifications	RSEE-1010, RSEE-1020, RSEE-1030, RSEE-1040, RSEE-1050, RSEE-1060, RSEE-1070, RSEE-1110, RSEE-1120	Yes

Doc ID: GNFDMDEHU6BB-46-53 Page 18 of 59

California ISO		Template Version:	5.1
	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

6 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.

6.1 Business Process: Resource Management

6.1.1 Business Requirements

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1- 1060-BRQ- 01020	RSEE-1060 (DR Inclusion with RSE)	Entities Sign Attestation for Non-Participating DR Schedules Submission Each WEIM Entity and/or Sub-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.	Business Process	Business Process
RSEE1- 1060-BRQ- 01040	RSEE-1060 (DR Inclusion with RSE)	 Definition of DR Inclusion Flag System shall define a flag on LF zone WEIM Entity and/or WEIM Sub-Entity level, if enabled, shall allow the entity with which it is associated and responsible for its LF submission (whether it is BAA or WEIM Sub-Entity)them to submit Non-Participating DR Schedules. This shall exclude the aggregate LF zone, in case there are more granular LF zones. That flag shall be enabled for a LF zone if the entity with which it is associated and responsible for LF submission (whether it is BAAWEIM Entity or WEIM Sub-Entity) only if it has signed attestation stating that adjustments made to the demand forecast used by the RSE corresponds to expected increases or reductions (non-zero values) in demand provided by their programs. 	Core	• MF

California ISO		Template Version:	5.1
	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S		Date Created:	3/4/2022

6.2 Business Process: Short-Term Forecasting - Load Forecast

6.2.1 Business Requirements

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1- 1060-BRQ- 02010	(DR Inclusion with RSE)	 Submission of Non-Participating DR Schedules by WEIM BAAs and WEIM Sub-Entities The following business process shall be utilized: Each WEIM Entity and/or Sub-Entity that plans to utilize a DR that are not explicitly modeled in RTM (DRPs that are not able to be represented by the PDR or RDRR models), regardless of the 5% of load forecast threshold, shall submit these non-participating DR schedules to CAISO's STF via existing manual process. If the submitted non-participating DR schedules are at or above the 5% LF threshold, existing logic to process them into LF via ALFS shall persist, and these WEIM Entity and/or Sub-Entity shall not submit these non-participating DR schedules as DR LF Adjustment via BAAOP UI/API. If the submitted non-participating DR schedules are below the 5% LF threshold, CAISO's STF team will evaluate the submitted data and communicate to the submitting Entities whether they have been processed into the ALFS's LF. If the data are processed into ALFS's LF, these entities shall not submit these non-participating DR schedules as DR LF Adjustments into BAAOP UI/API. 	Existing System Functionality	• Business Process
RSEE1- 1060-BRQ- 02040	(DR Inclusion with RSE)	Receive Non-Participating DR Schedules from WEIM Entity BAA or WEIM Sub-Entity System shall have the capability to receive the following for DRPs that are not able to be represented by the PDR or RDRR models in the market from LF zones that have enabled MF DR Inclusion Flag, using similar mechanism as receiving existing LF: Non-Participating DR Schedules Notes: The DRPs can be reflected as an increase in load that captures expected "pre-cooling" as well as a decrease in LF that reflects the DR event itself.	Core	• ALFS



ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1- 1060-BRQ- 02120	RSEE-1060	Aggregating PDR and RDRR LF on BAA and/or WEIM Sub-Entity Levels System shall have the capability to automatically aggregate PDR and RDRR on LF zone for applicable CAISO and/or WEIM BAA and/or WEIM Sub-Entity, for utilization by Demand Forecast.	Core	• ALFS
RSEE1- 1060-BRQ- 02140	(DR Inclusion with RSE)	Utilize PDR, RDRR and Non-Participating DR Schedules on BAA or WEIM Sub-Entity Levels to Create RT Demand Forecast System shall have the ability to utilize PDR, RDRR and Non-Participating DR Schedules (as applicable by STF business process), on LF zone for BAA and/or WEIM Sub- Entity, in the creation of RT Demand Forecast.	Cere	• ALFS
		Notes: This shall include WEIM Entity/Sub-Entity and CAISO BAAs.		
RSEE1- 1060-BRQ- 02160	(DR Inclusion with RSE)	Accounting for DR LF Adjustment in RT Demand Forecast Process For each BAA and/or WEIM Sub-Entity, System shall utilize applicable business process to either: Account for the provided Non-Participating DR Schedules in the load forecast(s) that are streamed to RTBS and RTM, and automatically set the DR LF Adjustment component to zero for all applicable LF zones that are associated with BAAs and/or WEIM Sub-Entities, or Not account for the provided Non-Participating DR Schedules in the load forecast(s) that are streamed to RTBS and RTM and automatically include the provided Non-Participating DR Schedules as a separate DR LF Adjustment component for applicable LF zones that are associated with BAAs and/or WEIM Sub-Entities that will be streamed to RTBS and RTM.	Core	• ALFS

California ISO		Template Version: Document Version:	5.1
	Technology		1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

6.3 Business Process: Manage RTM

• Manage Real Time Operations

6.3.1 Business Requirements

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1 -1010- BRQ- 03110	RSEE-1010 (Consideratio n of Supply Conditions in the Capacity Test)	 Counting Online Supply Resources as Available Supply in the Capacity Test System shall account for the following as available supply in RSE Capacity Test; unless any disqualifying rule is triggered: A Supply resource with a Bid, an ED or a WEIM MD Instruction, or commitment override in the RTM through the upcoming hour that is online in the last 15 minute interval before the hour under evaluation (T). Notes: This enhancement applies to both WEIM and CAISO BAAs. Supply resources include Generating Units (including MSG resources) and "PDRs). Generating resources include existing resource types that are in production, including, but not limited to, Pump Storage Hydro (PSH) resources. The disqualifying rules shall include these BRQs:	Core Existing System Functionality	• RTBS
RSEE1 -1010- BRQ- 03120	RSEE-1010 (Consideratio n of Supply Conditions in the Capacity Test)	 Counting Offline Short-Start Units as Available Supply in the Capacity Test System shall account for the following as available supply in RSE Capacity Test: unless any disqualifying rule is triggered: A short-start Unit with a Bid in the RTM through the upcoming hour that is offline in the last 15 minute interval before the hour under evaluation (T), provided the Short Start Unit has remaining start-ups in the day (i.e. did not reach its MDS constraint already); otherwise, it shall not be counted as available supply (e.g. short start units that do not meet the aforementioned criteria and long start units). 	Core	• RTBS

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1 -1010- BRQ- 03130	RSEE-1010 (Consideratio n of Supply Conditions in the Capacity Test)	Notes: • This enhancement applies to both WEIM and CAISO BAAs. • Short-start unit are Supply resources that can start within (SUT+MUT <= 255 minutes [configurable]). • Supply resources include Generating Units (including MSG resources) and "PDRs). • For MSG resources, this rule shall apply to all startable MSG configurations that meet the conditions described in this requirement. • Per existing functionality, available capacity is calculated as the highest value among all applicable MSG configurations. • Generating resources include existing resource types that are in production, including, but not limited to, Pump Storage Hydro (PSH) resources. • The disqualifying rules shall include these BRQs: • RSEE1-1010-BRQ-03190 • RSEE1-1010-BRQ-03200 • RSEE1-1010-BRQ-03210 Counting Online (or In-Transition State to) MSG Configurations as Available Supply in the Capacity Test System shall account for the following as available supply in RSE Capacity Test, unless any disqualifying rule is triggered: • AAn MSG configuration with a Bid, an ED, a WEIM MD Instruction, or commitment override, in the RTM through the upcoming hour that is online (or in-transition state) in the last 15 minute interval before the hour under evaluation (T). Notes: • This enhancement applies to both WEIM and CAISO BAAs. • This functionality applies to Capacity Test. • Per existing functionality. available capacity is calculated as the highest value among all applicable MSG configurations. • The disqualifying rules shall include these BRQs: • RSEE1-1010-BRQ-03190 • RSEE1-1010-BRQ-03190 • RSEE1-1010-BRQ-03200	Core Existing System Functionality	• RTBS

Doc ID: GNFDMDEHU6BB-46-53 Page 23 of 59

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s)
				Impacted
RSEE1 -1010- BRQ- 03140	RSEE-1010 (Consideration of Supply Conditions in the Capacity Test)	Counting Offline Short-Transition MSG Configurations as Available Supply in the Capacity Test System shall account for the following as available supply in RSE Capacity Test: unless any disqualifying rule is triggered: • A MSG configuration (that is Short-Transition to it) with a Bid in the RTM through the upcoming hour that is offline in the last 15 minute interval before the hour under evaluation (T) provided the MSG configuration has remaining MSG state transition to it in the day (i.e. did not reach its maximum daily state transition constraint already); otherwise, it shall not be counted as available supply (e.g. short transition configuration that do not meet the aforementioned criteria or long transition configuration). • If there is multiple transitions to the above configuration, the max capacity among upward transitions shall be utilized.	Core	• RTBS
		 Notes: This enhancement applies to both WEIM and CAISO BAAs. MSG configurations (with Short Transition to them) are the ones that can transition to them within (Transition Time to that configuration + MUT <= 255 minutes [configurable]). Per existing functionality, available capacity is calculated as the highest value among all applicable MSG configurations. This functionality applies to Capacity Test. System will only consider only one transition in this evaluation (i.e. no back to back transitions shall be considered). The disqualifying rules shall include these BRQs: RSEE1-1010-BRQ-03190 RSEE1-1010-BRQ-03200 RSEE1-1010-BRQ-03210 		
RSEE1 -1010- BRQ-	RSEE-1010 (Consideratio n of Supply	DMMData-Driven CAISO-IT-User Adjustments of Max Bid-In Capabilities for the Calculations of Counted Available Supply in the Capacity Test - System shall provide the capability for CAISO-IT users to adjust the resource-specific max bid-in MW	Existing System Functionality Core	• RTBS

Dcc ID: GNFDMDtHU6BB-46-53 Page 24 of 59

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
03160 <u>0</u> 317 <u>0</u>	Conditions in the Capacity Test)	capabilities, for offline Supply resources that submit RTM bids for the hour under evaluation (T) in the Capacity Test. An additional CAISO IT-user-editable resource-specific Adjustable Max Bid-In constraint (with a default value of 99999) shall be utilized and system shall respect the most restrictive value of this constraint and the Max Bid-In constraint available capacity. Notes: This enhancement applies to both WEIM and CAISO BAAs. The DMMdata-driven adjustments will be in accordance with the timelines and procedures provided in the WEIM BPM to account for limitations that the DMM has reported significantly reduce the address significant over-counting of Supply that was available to the RTM that has been identified and documented.		
RSEE1 -1010- BRQ- 03180	RSEE-1010 (Consideratio n of Supply Conditions in the Capacity Test)	Counting Capacity Made Available during FOR Transition as Available Supply in the Capacity Test System shall account for the following as available supply in RSE Capacity Test, similar to logic used in Flexible Ramping Test; unless any disqualifying rule is triggered: Capacity made available by a Supply resource while it is transitioning through a FOR. Notes: This enhancement applies to both WEIM and CAISO BAAs. The disqualifying rules shall include these BRQs: RSEE1-1010-BRQ-03190 RSEE1-1010-BRQ-03200 RSEE1-1010-BRQ-03210	Existing System Functionality	• RTBS
RSEE1 -1010- BRQ- 03190	RSEE-1010 (Consideratio n of Supply Conditions in	Not Counting Failed-to-Start Short-Start Units as Available Supply in the Capacity Test System shall NOT account for the following as available supply in RSE Capacity Test: An online-status A resource that meet ALL of the following triggers: A Short-Start Unit-with.	Core	• RTBS

Doc ID: GNFDMDtHU6BB-46-53 Page 25 of 59

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	the Capacity Test)	 Startable resource (i.e. does not apply to storage resources that is considered always online) Has a bid in the RTM for the hour under evaluation (T) and). Has continuous RTPD online statuses starting from the time interval that is aligned with the time of RSE execution all the way until the end RSE time horizon, using the latest RTPD run that is available before RSE execution. RTPD advisory horizon overlaps with all RSE time intervals. A non-positive telemetry at the time of the RSE execution. Available Telemetry with Good Quality Flag. 		
		Notes: Refer to Examples in Appendix-B: Formulas, Calculation Details, and Examples This enhancement applies to both WEIM and CAISO BAAs. Online status is obtained from the 15 min RTPD interval that corresponds to the RSE execution time (retrieved from the latest RTPD run preceding the RSE run under consideration). Example RSE executed at 12:46:45, online status comes from RTPD interval 12:45-13:00.		
		 Telemetries will be retrieved from the latest RTPD run preceding the RSE run under consideration. Latest Telemetries are retrieved at the time of RSE execution. Non positive telemetry is telemetry <=0 (indicating the resource failed to initiate-start-up) Short-start unit are Supply resources that can start within (SUT+MUT <= 255 minutes [configurable]). Supply resources include Generating Units (including MSG resources) and "PDRs). Only startable resources shall be considered in this functionalities (i.e. does not apply to storage resources that is considered always online). 		

Doc ID: GNFDMDEHU6BB-46-53 Page 26 of 59

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
		This rule shall not apply to PSH resources.		
RSEE1 -1010- BRQ- 03200	RSEE-1010 (Consideratio n of Supply Conditions in the Capacity Test)	Not Counting Outaged Supply Resources as Available Supply in the Capacity Test System shall NOT account for the following as available supply in RSE Capacity Test: A Supply resource that is on outage during the hour under evaluation (T). Notes: This enhancement applies to both WEIM and CAISO	Existing System Functionality	• RTBS
		 BAAs. Supply resources include Generating Units (including MSG resources) and "PDRs). Generating resources include existing resource types that are in production, including, but not limited to, Pump Storage Hydro (PSH) resources. 		DTD
RSEE1 -1010- BRQ- 03210	RSEE-1010 (Consideratio n of Supply Conditions in the Capacity Test)	Not Counting Supply Resources that are Unable to Start after Returning from Outages as Available Supply in the Capacity Test System shall NOT account for the following as available supply in RSE Capacity Test: A Supply resource that has returned from an outage but is unable to start-up within hour T.	Existing System Functionality	• RTBS
		 Notes: This enhancement applies to both WEIM and CAISO BAAs. Outages will be inclusive of the SUT₌ (refer to section 7.1 in Market Operations BPM). Supply resources include Generating Units (including MSG resources) and "PDRs). Generating resources include existing resource types that are in production, including, but not limited to. Pump Storage Hydro (PSH) resources. 		
RSEE1 -1020- BRQ- 03300	RSEE-1020	Adjustments to Initial Reference Point used in Flexible Ramping Test System shall calculate PBC under-gen relaxation quantity that account for any PBC under-gen relaxation, that is present in the market solution and account for it	Core	• RTBS

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	(Flexible Ramping Test Modifications – PBC)	in the Flexible Ramping Test, for both the upward and downward requirements, in order to increase the accuracy of this test. • System shall modify the final FRU and FRD requirements for the Flexible Ramping Test in RTBS due to under-generation conditions in the T-7.5' solution from RTPD. • For the upward Flexible Ramping Test, System shall increase FRU requirement by the PBC under-gen relaxation quantity. • For the downward Flexible Ramping Test, System shall decrease FRD requirement by the PBC under-gen relaxation quantity. • That PBC under-gen relaxation quantity shall exclude any operator load conformance inherent to the market schedule. • Mathematically, PBC Under-Gen Relaxation Quantity = max (0, [Under Generation Infeasibility - Operator Load Conformance])		Impacted
		 Notes: This enhancement applies to both WEIM and CAISO BAAs. The flexible ramping test currently measures a BAA ability to ramp between forecasted demand, including uncertainty, for each 15-min interval within the hour under evaluation. This measurement is conducted using the RTPD schedule for the interval immediately prior to the hour being evaluated, as the reference point. This enhancement will ensure that the market schedule that is used as the reference point in the Flexible Ramping Test does not have an artificially biased ramping requirement due to capacity shortfalls preventing market schedules from fully balancing to demand. No modification to FRU and FRD requirements due to over-generation conditions. 		
RSEE1 -1030- BRQ- 03370	RSEE-1030	Account for the Ramping Capability of MSG Transitions in RSE Flexible Ramping Test While evaluating a WEIM entity's ramping capability in Flexible Ramping Test, System shall account for the ramping capability of MSG resources, while they transition	Existing System Functionality	• RTBS

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
	(Consider a Resource's Transition through FOR in the Flexible Ramping Test)	between MSG configurations as an additional upward or downward ramp. Notes: This enhancement applies to both WEIM and CAISO BAAs.		
RSEE1 -1030- BRQ- 03380	RSEE-1030 (Consider a Resource's Transition through FOR in the Flexible Ramping Test)	Account for the Ramping Capability of Resources with FORs in RSE Flexible Ramping Test, while Transitioning through their FORs While evaluating a WEIM entity's ramping capability in Flexible Ramping Test, System shall account for the ramping capability of resources with FORs, while they transition through their FORs as an additional upward or downward ramp. Notes: This enhancement applies to both WEIM and CAISO BAAs. Currently the market transitions resources through these FORs in the least number of intervals possible.	Core	• RTBS
RSEE1 -1040- BRQ- 03460	RSEE-1040 (RSE Modifications – Storage Resources Treatment)	Accounting for Storage Resources SOC in RSE Tests System shall consider SOC from the most recent RTPD run at T-7.5' in the calculation of storage resources capacities in RSE Balancing Test, Capacity Test, and upward and downward tests of Flexible Ramping Test. System shall account for energy and AS Awards and/or self-provision. For CAISO BAA, System shall account for maintaining AS schedules for 30-minutes (configurable). For WEIM BAAs, System shall account for maintaining AS schedules for 30-minutes (configurable)	Core	• RTBS

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
		 This functionality shall apply to both WEIM and CAISO BAAs. This applies to storage resources with CAISO-manageable SOC. This functionality will ensure accurate assessment of the flexibility provided by the resource at the time of the test in addition to its ability to provide flexibility in the upcoming hour. This functionality will ensure equitable treatment between the CAISO and WEIM entities. 		
RSEE1 -1040- BRQ- 03480	RSEE-1040 (RSE Modifications – Storage Resources Treatment)	Accounting for Storage Resources SOC in RTM for WEIM For manageable-SOC storage resources within WEIM BAAs and/or Sub-Entities, System shall account for maintaining AS schedules for 30-minutes (configurable) in market optimization.	Core	• RTM o STUC o RTPD o RTD
RSEE1 -1060- BRQ- 036000 3575	RSEE-1060 (DR Inclusion with RSE)	Accounting for Submission of DR LF Adjustments in RSE(that Reflect Non-Participating DR Schedules) by WEIM BAA or WEIM Sub-Entity - System shall have provide the capability for WEIM BAA and/or WEIM Sub-Entity that have enabled MF DR Inclusion Flag to automatically account submit the following for DRPs that are not able to be represented by the PDR or RDRR models in the market: - DR LF Adjustment Adjustments (that reflect Non-Participating DR Schedules) (hourly values in the load forecast that future, on LF Zone Level). - If WEIM BAA is used in Bid Range Capacity Testand Flexible Ramping Test for the applicable BAAs WEIM Sub-Entities, through either an increase of decrease in those requirements the one that has enabled DR Inclusion Flag, the DR LF Adjustments (that reflect Non-Participating DR Schedules) shall be submitted on the LF zone(s) that corresponds to ELAP(s) for each WEIM BAA.	Core	• RTBSBAAOP

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
		 System shall apply the average for the corresponding four 15-min intervals of the DR LF Adjustment to the load forecast of the Balancing Test and Feasibility Test. System shall use the most updated DR LF Adjustment present for the run at T-75', T-55', and T-40'. If WEIM Sub-Entity is the one that has enabled DR Inclusion Flag, the DR LF Adjustments (that reflect Non-Participating DR Schedules) shall be entered on the LF zone that is associated with that WEIM Sub-Entity. DR LF Adjustments (that reflect Non-Participating DR Schedules) data submission by WEIM BAA and/or WEIM Sub-Entity shall be facilitated by a both UI and API. Notes: The purpose of this functionality is to provide DRPs can be reflected as an increase in load that captures expected "pre-cooling" as well as a decrease in LF that reflects the DR event itself. The submitted hourly DR LF Adjustments that reflects (that reflects Non-Participating DR Schedules) shall be treated as DR LF Adjustment for RTBS. Via business process, only WEIM BAA and WEIM Sub-Entities and/or Sub-Entity the ability to adjust that have all of the demand forecast to account for DRP that are following can submit their DR LF Adjustment via BAAOP UI or API: Have enabled MF DR Inclusion Flag Have their non-participating DR schedules below 5% LF threshold. Either did not currently able to be represented within RTM submit their non-participating DR schedules did Either did not currently able to be represented within RTM submit their non-participating DR schedules did 		
RSEE1 -1060- BRQ- 03620	(DR Inclusion with RSE)	not get accounted for in CAISO's LF. Display Accounted DR LF Adjustments in RSE System shall display the accounted DR LF Adjustment (side by side with LF) in RSE to BAA Operators via UI.	Core	■BAAOP

Doc ID: GNFDMDEHU6BB-46-53 Page 31 of 59

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1 -1060- BRQ- 036800 3600	RSEE-1060 (DR Inclusion with RSE)	 Accounting for DR LF Adjustments in RTMRSE System shall providehave the capability to automatically account the submitted DR LF Adjustment (on LF zone level) in RTMthe load forecast that is used in RSE Tests (Balancing Test, Feasibility Test, Bid Range Capacity Test, and Flexible Ramping Test) for the applicable BAAs and/or WEIM Sub-EntitiesBAAs that are associated with these LF zone, through either an increase of decrease in those requirements. System shall haveapply the capability to account for the hourly DR LF Adjustment anywhere withinfor each of the corresponding four 15-min intervals for Capacity Test and Flexible Ramping Test. System shall use the RT operating horizon including STUC most updated DR LF Adjustment present for the run at T-75', T-55', and T-40'. Notes: STUC and RTPD shall use 15-min granularity of DR LF Adjustments. RTD shall use 5-min granularity of DR LF Adjustments The purpose of this functionality is to provide WEIM EntitiesBAA and/or Sub-EntitiesEntity the ability to adjust the demand forecast to account for DRP that are not currently able to be represented within RTM. 	Core	● RTBS RTM
RSEE1 -1060- BRQ- 037000 3620	RSEE-1060 (DR Inclusion with RSE)	Display Accounted DR LF Adjustments in RTMRSE System shall display the accounted DR LF Adjustment (side by side with LF) in RTMRSE to CAISO BAA Operators via UI. Notes: This functionality shall still be applicable when the DR LF Adjustment data are submitted via API.	Core	● RTM
RSEE1 -1070- BRQ- 03760	RSEE-1070 (Reliability of CAISO Interchange Schedules)	Discount CAISO Interchange Awards that have not submitted Transmission Profile e-Tag System shall discount any interchange (import/export) awards that have not submitted a transmission profile e-Tag equal to their HASP award by the T-40' deadline for Capacity Test and Flexible Ramping Test. Example:	Core	• RTBS

Dcc ID: GNFDMDtHU6BB-46-53 Page 32 of 59



ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
		 CAISO clears 100 MW of import supply in HASP. Only 60MW of import submits transmission profile e-tag by T-40'. CAISO will not account for the other 40 MW in the RSE. 		
RSEE1 -1110- BRQ- 03960	RSEE-1110 (Net-Load Uncertainty Calculation Removal from Capacity Test)	Net-Load Uncertainty Calculation Removal from Capacity Test System shall remove net-load uncertainty in the capacity test pursuant to existing tariff authority. Notes: This enhancement has already been implemented and is currently in production.	Existing System Functionality	• RTBS
RSEE1 -1120- BRQ- 03980	(Intertie Uncertainty Calculation Removal from Capacity Test)	Intertie Uncertainty Calculation Removal from Capacity Test System shall remove intertie uncertainty adder from the capacity test until Phase-2 implementation.	Existing System Functionality	• RTBS

		Template Version:	5.1
California ISO	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

6.4 Business Process: Manage Market Reporting

• Manage Real Time Operations

6.4.1 Business Requirements

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1- 1090-BRQ- 04080	RSEE-1090 (Increased RSE Data on RSE Results and Additional Data Transparency and Reporting)	Publish BAA RSE Capacity Test Data Upon data receipt, System shall report the following detailed RSE results to each WEIM BAA for their Capacity Test: Trade Date Test Time BAA Test Status (Pass/Fail). by Direction Generation Base Schedule Import Base Schedule Export Base Schedule Net Base Schedule Intertie Uncertainty Net-Load Uncertainty Bid Range Capacity Change (aka bid range upward/downward capacity). by direction Note: Refer to RSEE1-1100-BRQ-04260 for other data posted on same report.	Core	• OASIS
RSEE1- 1090-BRQ- 04090	RSEE-1090 (Increased RSE Data on RSE Results and Additional Data Transparency and Reporting)	Publish BAA RSE Flexible Ramping Test Data Upon data receipt, System shall report the following detailed RSE results to each WEIM BAA for their Flexible Ramping Test: Trade Date Test Time BAA Up Credits Down Credits Net Import Capability Net Export Capability	Existing System Functionality	• OASIS

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1- 1090-BRQ- 04100	RSEE-1090 (Increased RSE Data on RSE Results and Additional Data Transparency and Reporting)	Publish BAA RSE Flexible Ramping Test Data Upon data receipt, System shall report the following detailed RSE results to each WEIM BAA for their Flexible Ramping Test: Trade Date Test Time BAA Test Status (Pass/Fail) by Direction Change in Load Forecast (including any DR LF adjustments) Net-Load Uncertainty Ramping Upward Capacity Ramping Downward Capacity	Core	• OASIS
RSEE1- 1100-BRQ- 04160	RSEE-1100 (Increased WEIM Entities Situational Awareness Regarding Test Performance)	Publish Resource-Specific RSE Capacity Test Data Upon data receipt, System shall report the following detailed RSE results to each WEIM BAA for their Capacity and Flexible Ramping Tests: Trade Date Test Time Resource ID Resource-Specific 15-minute Bid Range Capacity MW Resource-Specific Ramping Type (Up/Down)	Core	• CMRI
RSEE1- 1100-BRQ- 04180	RSEE-1100 (Increased WEIM Entities Situational Awareness Regarding Test Performance)	Publish Resource-Specific RSE Flexible Ramping Test Data Upon data receipt, System shall report the following detailed RSE results to each WEIM BAA for their Capacity and Flexible Ramping Tests: Trade Date Test Time Resource ID Resource-Specific 15-minute Ramping Capacity MW Resource-Specific Ramping Type (Up/Down)	Existing System Functionality	• CMRI
RSEE1- 1100-BRQ- 04240	RSEE-1100 (Increased WEIM Entities Situational	Publish BAA RSE CapacityFlexible Ramping Test Data Upon data receipt, System shall report the following detailed RSE results to each WEIM BAA for their Flexible Ramping Test: Trade Date	Existing System Functionality	• OASIS

Doc ID: GNFDMDtHU6BB-46-53 Page 35 of 59



ID# RS	SEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
Re	wareness legarding Test erformance)	 Test Time BAA 15-minute BAA Uncertainty Requirement 15-minute BAA Diversity Benefit Amount 		
1100-BRQ- 04260 (In W Si Av	ncreased VEIM Entities vituational wareness regarding Test rerformance)	Publish BAA RSE Capacity Test Data Upon data receipt, System shall report the following detailed RSE results to each WEIM BAA for their Capacity Test: • Trade Date • Test Time • BAA • 15-minute BAA LF (including any DR LF adjustments). • 15-minute BAA Import Quantity • 15-minute BAA Export Quantity • 15-minute BAA Net Quantity • 15-minute BAA Net Quantity	Core	• OASIS

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

6.5 Business Process: Manage FERC Reporting

6.5.1 Business Requirements

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1- 1060-BRQ- 05100	RSEE-1060	Publish to FERC System shall have the capability to automatically publish the following data to FERC:	<u>Core</u>	• Internal ISO System
33100	(DR Inclusion with RSE)	 DR Inclusion Flag (WEIM Entity Level) (WEIM Sub-Entity Level) DR LF Adjustments 		

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

6.56.6 Business Process: Manage Market Billing and Settlements

6.5.16.6.1 Business Requirements

ID#	RSEE ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
RSEE1- 1050-BRQ- 06040	RSEE-1050 (Balancing Test Modifications)	Exclusion of CAISO BAA from Allocation of Funds Resulting from Failures of Balancing Tests System shall exclude CAISO BAA, from the potential revenues resulting from failures of Balancing Test, as it is not subject to the Balancing Test that derives these revenues.	Core	Settlements

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

6.66.7 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, Western Energy Imbalance Market (WEIM) implementations, and Reliability Coordination (RC) service implementations.

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 settlement 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 a WEIM 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 newfunction or process within their organization.

6.6.16.7.1 Business Requirements

ID#	RSEE ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
RSEE1- 1020-	RSEE-1020 (Flexible Ramping Test	Set up a scenario where PBC Under- Gen Relaxation Quantity is triggered for WEIM BAAs.	• ALFS • SIBR	• BAAOP • CMRI	Rule Impact New/Modified model data

	Technology	Template Version:	5.1
California ISO		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

ID#	RSEE ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
MSIM- 07020	Modifications – PBC)	Run market (RTBS).Follow the results in the sink systems.			
RSEE1- 1050- MSIM- 07040		 Set up a scenario where several WEIM BAAs fail Balancing Test and the load is within the 5% threshold. Run market (RTBS). Run Settlements Follow the results in the Settlements systems to verify that CAISO BAA is not excluded from fund allocation. 	• MRI- S(Metering)	• Settlements	1. Rule Impact 5. New/Modified model data
RSEE1- 1050- MSIM- 07060	RSEE-1050 (Balancing Test Modifications)	 Set up a scenario where several WEIM BAAs fail Balancing Test-and the load is beyond the 5% threshold. Run market (RTBS). Run Settlements Follow the results in the Settlements systems to verify that CAISO BAA is excluded from fund allocation. 	• MRI- S(Metering)	Settlements	Rule Impact New/Modified model data
RSEE1- 1060- MSIM- 07080	RSEE-1060 (DR Inclusion with RSE)	 Set up a scenario where WEIM BAAEntity participants submit DR LF Adjustments (that reflect Non- Participating DR Schedules,) on LF zone level, to CAISO: Run market (RTM and RTBS). Follow the results in the sink systems. 	• ALFSBAAOP	•BAAOP •CMRI •OASIS	Rule Impact New/Modified model data

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

7 Appendices

7.1 Appendix-A – Acronym Definition

Acronym	Definition
A2A	Application-to-Application
ABC	Available Balancing Capacity
ACL	Access Control List
ADS	Automatic Dispatch System
AGC	Automatic Generation Control
AIM	Access and Identity Management
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
BCR	Bid Cost Recovery
ВРМ	Business Process Manual
BRS	Business Requirement Specifications



Acronym	Definition
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
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
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

Doc ID: GNFDMDEHU6BB-46-53 Page 42 of 59



Acronym	Definition
DA	Day-Ahead
DACA	Day-Ahead Contingency Analysis
DAM	Day-Ahead Market
DART	Day-Ahead Reliability Tool
DCPA	Dynamic Competitive Path Assessment
DEB	Default Energy Bid
DER	Distributed Energy Resource
DCC	Default Commitment Cost
DGAP	Default Generation Aggregation Point
DMLC	Default Minimum Load Cost
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
ED	Exceptional Dispatch
EDAM	Extended Day-Ahead Market



Acronym	Definition
EDR	Enterprise Data Repository
EE	Expected Energy
EEA	Expected Energy Allocation
EESC	Energy Imbalance Market Entity Scheduling Coordinator
EFC	Effective Flexible Capacity
EMM	Enterprise Model Management
EMMS	Enterprise Model Management System
EMNA	Energy Management Network Application
EMS	Energy Management System
EPI	Electricity Price Index
ESP	Electronic Security Perimeter
ETC	Existing Transmission Contract
ETSR	Energy Transfer System Resources
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
FRCT	Forbidden Region Crossing Time
FRD	Flexible Ramp Down



Acronym	Definition
FRU	Flexible Ramp Up
GDF	Generation Distribution Factor
GHG	Green House Gas
GIP	Generator Interconnection Procedure
GMC	Grid Management Charge
GPI	Gas Price Index
GRDT	Generator Resource Data Template
GUI	Graphical User Interface
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
100C	Integrated Optimal Outage Coordination
П	Information Technology
пс	Inter-Tie Constraint
ITPD	Information Technology Product Development

Doc ID: GNFDMDEHU6BB-46-53 Page 45 of 59



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
LMDR	Load Modifying Demand Response
LMP	Locational Marginal Price
LMPM	Locational Market Power Mitigation
LOL	Lower Operating Limit
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
MDS	Maximum Daily Startups

Doc ID: GNFDMDEHU6BB-46-53 Page 46 of 59



Acronym	Definition
MF	Master File
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
MPM	market Power Mitigation
MQS	Market Quality System
MRID	Master Resource IDentifier
MRI-S	Market Results Interface – Settlements
MSSA	Metered Sub System Agreement
MSG	Multi-Stage Generator
MUT	Minimum Up Time
MV&A	Market Validation & Analysis
MVT	Market Validation Tool

Doc ID: GNFDMDEHU6BB-46-53 Page 47 of 59



Acronym	Definition
N/A	Not Applicable
NA	Network Application
NDEB	Negotiated Default Energy Bid
NGR	Non-Generating Resource
NM	Network Model
NQC	Net Qualifying Capacity
OASIS	Open Access Same-time information System
OATI	Open Access Technology International
OC	Opportunity Cost
OCC	Opportunity Cost Calculator
ODCP	On Demand Capacity Procurement
OES	Operations Engineering Services
OMS	Outage Management System
ООМ	Out Of Market
отѕ	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

Doc ID: GNFDMDEHU6BB-46-53 Page 48 of 59

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

Acronym	Definition
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
PSTO	Power Systems Technology Operations
РТО	Participating Transmission Owner
QRB	Quality Review Board
RA	Resource Adequacy
RC	Reliability Coordinator
RC-BSAP	Reliability Coordinator - Base Schedule Aggregation Portal
RCD	Reliability Capacity Down
RCSA	Reliability Coordinator Service Agreement
RCU	Reliability Capacity Up

Doc ID: GNFDMDEHU6BB-46-53 Page 49 of 59



Acronym	Definition
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
RIG	Remote Intelligent Gateway
RIMS	Resource Interconnection Management System
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
RTPD	Real-Time Pre-Dispatch
RTM	Real-Time Market
RTUC	Real-Time Unit Commitment

Doc ID: GNFDMDEHU6BB-46-53 Page 50 of 59



Acronym	Definition
RUC	Residual Unit Commitment
SADS	System And Design Specifications
SC	Scheduling Coordinator
SCME	Scheduling Coordinator Meter Entity
SE	State Estimator
SIBR	Scheduling Infrastructure and Business Rules
SME	Subject Matter Expert
SOA	Service-Oriented Architecture
SQMD	Settlements Quality Meter Data
SRS	System Requirement Specifications
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
SURT	Start Up Ramp Time
SUT	Start Up Time
Т	Trading Hour

Doc ID: GNFDMDEHU6BB-46-53 Page 51 of 59



Acronym	Definition
TBD	To Be Determined
TEP	Tucson Electric Power
TG	Tie Generator
TNA	Transmission Network Application
TOP	Transmission Operator Provider
TOR	Transmission Ownership Contract
TEE	Total Expected Energy
TTEE	Total Target Expected Energy (based on RDOT)
UAT	User Acceptance Testing
UEL	Upper Economic Limit
UFR	Upper Forbidden Region
UI	User Interface
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

California ISO	Technology	Template Version:	5.1
		Document Version:	1.1
WEIM Resource Sufficiency Evaluation Enhancements – Phase-1 (RSEE-1) Business Requirements Specification - Planning		Date Created:	3/4/2022

Acronym	Definition
XML	Extensible Markup Language
XSD	XML Schema Definition



7.2 Appendix-B: Formulas, Calculation Details, and Examples

7.2.1 RSEE-1010 – Consideration of Supply Conditions in the Capacity Test – Not Counting Failed-to-Start Short-Start
Units as Available Supply in the Capacity Test – Examples

Reference

• RSEE1-1010-BRQ-03190

7.2.1.1 **Examples for RTBS1** @ **T-75**'

RSE Horizon: 18:00-19:00									
RTBS1 @ 16:46:30			I		16 74 116 14	I			
<u>Time Interval</u>	<u>Status</u>	<u>Data Source</u>	Telemetry Check	<u>Telemetry Value</u>	<u>Assessed for Disqualification</u>	<u>Disqualified</u>			
<u>16:45-17:00</u>	<u>Online</u>	RTPD5	<u>Yes</u>	<=0	No, due to no RTPD advisories for RSE hour	<u>N/A</u>			
17:00-17:15	<u>Online</u>	RTPD4	<u>No</u>	N/A	No, due to no RTPD advisories for RSE hour	<u>N/A</u>			
17:15-17:30	<u>Online</u>	RTPD4	<u>No</u>	N/A	No, due to no RTPD advisories for RSE hour	N/A			
17:30-17:45	<u>Online</u>	RTPD4	<u>No</u>	N/A	No, due to no RTPD advisories for RSE hour	N/A			
17:45-18:00	<u>Online</u>	RTPD4	<u>No</u>	<u>N/A</u>	No, due to no RTPD advisories for RSE hour	<u>N/A</u>			

RSE Horizon: 18:00-	RSE Horizon: 18:00-19:00							
RTBS1@16:46:30								
Time Interval	<u>Status</u>	<u>Data Source</u>	Telemetry Check	Telemetry Value	Assessed for Disqualification	<u>Disqualified</u>		
16:45-17:00	Online	RTPD5	<u>Yes</u>	<=0	No, due to no RTPD advisories for RSE hour	N/A		
17:00-17:15	<u>Online</u>	RTPD4	No	N/A	No, due to no RTPD advisories for RSE hour	N/A		
17:15-17:30	<u>Online</u>	RTPD4	<u>No</u>	N/A	No, due to no RTPD advisories for RSE hour	N/A		
17:30-17:45	<u>Online</u>	RTPD4	<u>No</u>	N/A	No, due to no RTPD advisories for RSE hour	N/A		
17:45-18:00	<u>Online</u>	RTPD4	<u>No</u>	<u>N/A</u>	No, due to no RTPD advisories for RSE hour	N/A		

		Template Version:	5.1
California ISO	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S	Date Created:	3/4/2022	

7.2.1.2 Examples for RTBS2 @ T-55'

RSE Horizon: 18:00-	RSE Horizon: 18:00-19:00							
RTBS2 @ 17:05:30	RTBS2@17:05:30							
Time Interval	<u>Status</u>	<u>Data Source</u>	Telemetry Check	Telemetry Value	Assessed for Disqualification	<u>Disqualified</u>		
17:00-17:15	<u>Online</u>	RTPD4	<u>Yes</u>	<=0	No, due to no continuous Online status	N/A		
<u>17:15-17:30</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	N/A	No, due to no continuous Online status	<u>N/A</u>		
<u>17:30-17:45</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
17:45-18:00	<u>Online</u>	HASP	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
<u>18:00-18:15</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	N/A	No, due to no continuous Online status	<u>N/A</u>		
18:15-18:30	<u>Offline</u>	HASP	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
18:30-18:45	<u>Offline</u>	HASP	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
<u>18:45-19:00</u>	<u>Offline</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	No, due to no continuous Online status	<u>N/A</u>		

RSE Horizon: 18:00-	RSE Horizon: 18:00-19:00						
RTBS2 @ 17:05:30	RTBS2 @ 17:05:30						
Time Interval	<u>Status</u>	<u>Data Source</u>	Telemetry Check	Telemetry Value	Assessed for Disqualification	<u>Disqualified</u>	
17:00-17:15	<u>Online</u>	RTPD4	<u>Yes</u>	<=0	No, due to no continuous Online status	<u>N/A</u>	
<u>17:15-17:30</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	No, due to no continuous Online status	<u>N/A</u>	
<u>17:30-17:45</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	N/A	No, due to no continuous Online status	N/A	
<u>17:45-18:00</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	N/A	No, due to no continuous Online status	<u>N/A</u>	
18:00-18:15	<u>Online</u>	HASP	<u>No</u>	N/A	No, due to no continuous Online status	<u>N/A</u>	
<u>18:15-18:30</u>	<u>Offline</u>	<u>HASP</u>	<u>No</u>	N/A	No, due to no continuous Online status	<u>N/A</u>	
<u>18:30-18:45</u>	<u>Offline</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	No, due to no continuous Online status	N/A	
<u>18:45-19:00</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	No, due to no continuous Online status	<u>N/A</u>	

California ISO		Template Version:	5.1
	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S	Date Created:	3/4/2022	

RSE Horizon: 18:00-19:00 RTBS2 @ 17:05:30							
Time Interval	<u>Status</u>	Data Source	Telemetry Check	Telemetry Value	Assessed for Disqualification	Disqualified	
17:00-17:15	<u>Online</u>	RTPD4	Yes	<=0	No, due to no continuous Online status	N/A	
17:15-17:30	Offline	HASP	No	N/A	No, due to no continuous Online status	N/A	
17:30-17:45	<u>Offline</u>	HASP	No	N/A	No, due to no continuous Online status	N/A	
17:45-18:00	<u>Offline</u>	HASP	<u>No</u>	N/A	No, due to no continuous Online status	N/A	
18:00-18:15	<u>Online</u>	HASP	No	N/A	No, due to no continuous Online status	N/A	
18:15-18:30	<u>Online</u>	HASP	No	N/A	No, due to no continuous Online status	N/A	
18:30-18:45	<u>Online</u>	HASP	No	N/A	No, due to no continuous Online status	N/A	
18:45-19:00	Online	HASP	No	N/A	No, due to no continuous Online status	N/A	

RSE Horizon: 18:00-	19:00							
RTBS2@17:05:30	RTBS2 @ 17:05:30							
<u>Time Interval</u>	<u>Status</u>	<u>Data Source</u>	Telemetry Check	<u>Telemetry Value</u>	<u>Assessed for Disqualification</u>	<u>Disqualified</u>		
<u>17:00-17:15</u>	<u>Online</u>	RTPD4	Yes	<=0	<u>Yes</u>	<u>Yes</u>		
<u>17:15-17:30</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	Yes	<u>Yes</u>		
<u>17:30-17:45</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	<u>Yes</u>	<u>Yes</u>		
<u>17:45-18:00</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	N/A	Yes	<u>Yes</u>		
<u>18:00-18:15</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	Yes	<u>Yes</u>		
<u>18:15-18:30</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	Yes	<u>Yes</u>		
<u>18:30-18:45</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	Yes	<u>Yes</u>		
<u>18:45-19:00</u>	<u>Online</u>	<u>HASP</u>	<u>No</u>	<u>N/A</u>	<u>Yes</u>	<u>Yes</u>		

		Template Version:	5.1
California ISO	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S	Date Created:	3/4/2022	

7.2.1.3 Examples for RTBS3 @ T-40'

RSE Horizon: 18:00-19:00								
RTBS3 @ 17:22:30								
Time Interval	<u>Status</u>	<u>Data Source</u>	Telemetry Check	Telemetry Value	Assessed for Disqualification	Disqualified		
17:15-17:30	<u>Online</u>	HASP	<u>Yes</u>	<=0	No, due to no continuous Online status	N/A		
17:30-17:45	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
17:45-18:00	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
18:00-18:15	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
18:15-18:30	<u>Offline</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
18:30-18:45	<u>Offline</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A		
18:45-19:00	<u>Offline</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A		

RSE Horizon: 18:00-19:00 RTBS3 @ 17:22:30							
Time Interval	Status	Data Source	Telemetry Check	Telemetry Value	Assessed for Disqualification	Disqualified	
17:15-17:30	Online	HASP	Yes	<=0	No, due to no continuous Online status	N/A	
17:30-17:45	<u>Online</u>	RTPD6	No	N/A	No, due to no continuous Online status	N/A	
17:45-18:00	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A	
18:00-18:15	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A	
18:15-18:30	<u>Offline</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A	
18:30-18:45	<u>Offline</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A	
18:45-19:00	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, due to no continuous Online status	N/A	

RSE Horizon: 18:00-19:00

		Template Version:	5.1
California ISO	Technology	Document Version:	1.1
WEIM Resource Sufficiency Evaluation Business Requirements S	Date Created:	3/4/2022	

RTBS3 @ 17:22:30										
Time Interval	<u>Status</u>	<u>Data Source</u>	Telemetry Check	Telemetry Value	Assessed for Disqualification	<u>Disqualified</u>				
17:15-17:30	Offline	HASP	<u>Yes</u>	<=0	No, Offline status at time of telemetry check	N/A				
17:30-17:45	<u>Offline</u>	RTPD6	<u>No</u>	N/A	No, Offline status at time of telemetry check	N/A				
<u>17:45-18:00</u>	<u>Offline</u>	RTPD6	<u>No</u>	N/A	No, Offline status at time of telemetry check	N/A				
18:00-18:15	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, Offline status at time of telemetry check	N/A				
18:15-18:30	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, Offline status at time of telemetry check	N/A				
18:30-18:45	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, Offline status at time of telemetry check	N/A				
18:45-19:00	<u>Online</u>	RTPD6	<u>No</u>	N/A	No, Offline status at time of telemetry check	N/A				

RSE Horizon: 18:00-19:00											
RTBS3 @ 17:22:30											
Time Interval	<u>Status</u>	<u>Data Source</u>	Telemetry Check	Telemetry Value	Assessed for Disqualification	<u>Disqualified</u>					
<u>17:15-17:30</u>	<u>Online</u>	<u>HASP</u>	Yes	<=0	Yes	<u>Yes</u>					
<u>17:30-17:45</u>	<u>Online</u>	RTPD6	<u>No</u>	<u>N/A</u>	<u>Yes</u>	<u>Yes</u>					
17:45-18:00	<u>Online</u>	RTPD6	No	N/A	Yes	<u>Yes</u>					
<u>18:00-18:15</u>	<u>Online</u>	RTPD6	<u>No</u>	<u>N/A</u>	<u>Yes</u>	<u>Yes</u>					
18:15-18:30	<u>Online</u>	RTPD6	<u>No</u>	N/A	Yes	<u>Yes</u>					
<u>18:30-18:45</u>	<u>Online</u>	RTPD6	<u>No</u>	<u>N/A</u>	<u>Yes</u>	<u>Yes</u>					
<u>18:45-19:00</u>	<u>Online</u>	RTPD6	<u>No</u>	<u>N/A</u>	<u>Yes</u>	<u>Yes</u>					

