



Business Requirements Specification

CCE Tariff Clarifications

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Disclaimer

Disclaimer

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Revision History

Date	Version	Description
6/4/2020	1.0	Initial Document release

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1 Introduction

1.1 Purpose

The Commitment Cost Enhancements Tariff clarifications project is focused on the use of limited, conditionally available resources and run-of-river resources and to clearly reflect these clarifications in the CAISO tariff. This policy covers bidding obligations, notification of outage requirements to the ISO and Resource Adequacy Availability Incentive Mechanism (RAAIM) obligation to the resource type discussed in this initiative. The principle driver in the Commitment Costs Enhancements Tariff Clarifications policy is to allow for expanded market participation from all use-limited resources including the hydro fleet.

Note: The Tariff language will be filed for July 1, 2020 effective date, however, the software implementation will be later in Fall 2020. As a result, any differences will be re-settled after implementation.

1.2 References

Information related to this Commitment Cost Enhancements (CCE) Tariff Clarifications can be found on the following CAISO web page at:

<http://www.caiso.com/InitiativeDocuments/DraftFinalProposalCommitmentCostEnhancementsTariffClarifications.pdf>

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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 Guidelines

Intellectual Property ownership must be considered by all applicable stakeholders before the services are performed. The level of analysis is two-fold:

- One, the business owner must determine if the Intellectual Property necessary to perform the services is owned by the California ISO or whether it must be obtained from a third party. Once the California ISO has secured the proper Intellectual Property rights to perform the services (i.e., the Intellectual Property is owned by the California ISO or we have licensed it from a third party), the California ISO can undertake the next step.
- The second step in the analysis is to consider whether new Intellectual Property will be created as a result of the business requirements or service requirements to be performed, and how that Intellectual Property will be owned and protected by the California ISO.

In order to assist the business owner in the analysis previously described, refer to the California Intellectual Property Policy available at:

<http://www.caiso.com/rules/Pages/LegalPoliciesNotices/Default.aspx>, which provides a brief tutorial on what Intellectual Property is and how the California ISO can protect its Intellectual Property. Contact the Legal Department if you have any questions regarding Intellectual Property.

There are no impacts to intellectual property based on the requirements stated in this document.

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3 Details of Business Need/Problem

3.1 Description

Business Opportunity/Problem Statement:	
What:	<p>The scope behind this policy and project include:</p> <ol style="list-style-type: none"> 1. Clarify tariff language that resources can be both use-limited and conditionally available and permitted to submit outage cards available to both designations 2. Clarify tariff language that conditionally available resources should submit outage cards when unavailable while limiting outage card use for certain Nature of Work (NOW) classifications 3. Provide definition for Run of River (hydro) resources and specify that they have similar treatment to Variable energy Resources (VER) (wind/solar) 4. Provide RAIM exemption for Run of River hydro resources
When:	<p>Tariff language will be filed for July 1, 2020 effective date with the understanding the once the implementation is complete RAIM charges will be re-settled. This project is targeting a 10/2020 release Q4 Settlements.</p>
Why do we have this opportunity/problem:	<p>The purpose of this initiative is to clarify the policy discussed in the Commitment Cost Enhancements (CCE3) and to clearly reflect these clarifications in the ISO tariff. These clarifications are focused on use-limited and Conditionally available resources. This initiative also involves a new tariff definition of Run-of-river hydro resources and proposes that these resources may be exempt from the Resource Adequacy Availability Incentive Mechanism (RAAIM).</p>

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4 Business Impacts

4.1 Business Practice Manual (BPM)

BPM	Description of Impact(s)
Market Operations	<p>Yes</p> <ul style="list-style-type: none"> A new definition for Run-of-river resources to be added in Section 2.1 Market Entities Section 2.1.16 Conditionally Available Resource paragraph needs to be checked as the statement “CARs do not hold a blanket RAAIM exemption, but are eligible to use the RAAIM exempt “Ambient Not Due to Temperature” outage card nature of work as described in section 3.4 of the Outage Management BPM” needs to be edited to reflect the policy initiative.
Market Instruments	<p>Yes</p> <ul style="list-style-type: none"> Section B.2.1 Resource tab- Modifiable RDT column to be added regarding the Run-of-river resource
Outage Management	<p>Yes</p> <ul style="list-style-type: none"> Section 3.4 Nature of Work Attributes for Generation Outages.
Reliability Requirements	<p>Yes</p> <ul style="list-style-type: none"> Section 7 Must Offer Obligation needs to be updated and Section 10 EFC requirements needs to be updated.
Settlements and Billing	<p>Yes</p> <ul style="list-style-type: none"> Will need to address the new Run-of-River resource type and RAAIM exemption
Congestion Revenue Rights	No
Credit Management and Market Clearing	No
Definitions & Acronyms	No
Demand Response	No

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BPM	Description of Impact(s)
Direct Telemetry	No
Distributed Generation for Deliverability	No
Energy Imbalance Market (EIM)	No
Generator Interconnection and Deliverability Allocation Procedures	No
Generator Interconnection Procedure (GIP)	No
Generator Management	No
Managing Full Network Model	No
Metering	No
BPM Change Management	No
Reliability Coordinator Services	No
Candidate CRR Holder Registration	No
Rules of Conduct Administration	No
Scheduling Coordinator Certification and Termination	No
Compliance Monitoring	No
Transmission Planning Process	No

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4.2 Other

Impact:	Description:
Market Simulation	Yes <ul style="list-style-type: none"> Verify Run-of-river resources are RAIM exemptions in Settlements.
Market Participant Impact	Yes <ul style="list-style-type: none"> Need to request classification for Run-of-River
External Training	Yes
Policy Initiative	Yes
Vendor	No

4.3 Acronyms

Acronym	Definition
CCE	Commitment Costs Enhancements
RAAIM	Resource Adequacy Availability Incentive Mechanism
CAR	Conditionally Available Resource
RDT	Resource Data Template
NOW	Nature of Work
SC	Scheduled Coordinator
VER	Variable Energy Resources
GRDT	Generator Resource Data Template

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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 Entity & Resource Maintenance Updates (MMR LII)

5.1.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
CCET-BRQ001	System shall add an attribute named Run of River. Implementation Note: Run of river resource is a subset of hydro resource.	Core Tariff Appendix A BPM for Market Instruments Section B.2.1	Master File
CCET-BRQ002	The GRDT shall be updated to include Read-Only access for the new generator attribute identified in CCET-BRQ001.	Core Appendix A BPM for Market Instruments Section B.2.1	Master File

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ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
CCET-BRQ003	The system shall make the new Run of River attribute as per CCET-BRQ001 available to downstream systems.	Core Section 40.6.4.1 Section 40.9.2.b.1 BPM for Market Instruments Section B.2.1	Master File
CCET-BRQ004	A new process to be developed for classifying Run of River resources.	Business Process Tariff Appendix A BPM for Market Operations Section 2.1	N/A

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5.2 Business Process: Manage Settlements Quarterly Release Cycle, Manage Market Billing and Settlements

5.2.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
CCET-BRQ005	System shall receive the new 'Run of River' attribute designation from Master File.	Core	Settlements
CCET-BRQ006	System shall exempt 'Run of River' resources from RAAIM Settlements.	Core Section 40.9.2.b BPM for RAAIM Pre-calculation	Settlements

5.3 Business Process: Business Process: Market/Business Simulation

5.3.1 Business Requirements

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.

In the Reason for Potential Scenario column, the Business Analyst must 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.

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2. **Interface vchanges:** 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 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.

5.3.1 Business Requirements

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
N/A	Project team determined there are no structured test cases, the technical team will present at the release user group that if any SCs would like to view the functionality through the unstructured testing will need to directly reach out to ISO to coordinate the date.			