

# Business Requirements Specification

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## Updates to AWE Tool – Pre Summer

Document Version: 1

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### Revision History

Date	Version	Description
02/24/2022	1.0	Creation of Document

 <b>California ISO</b>	<b>Technology</b>	<b>Template Version:</b>	<b>6</b>
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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).

### Background:

Operations aims to have fewer tools that operators use for managing communications to external parties. Currently, Operations uses AWE, GMS, MNS/MDS, ADS, and Everbridge. The current tool is nearing its end of life. This provides an opportunity to consolidate these tools to a single tool which can reach various audiences (AWE subscribers are a mix of Market Participants, regulatory agencies, and other interested parties).

**This BRS only covers Updates to AWE Tool - Pre-Summer scope in relation to the addition/updates to five AWE templates (EEA Watch, EEA1, EEA2, EEA3, EEA3 Load Interruption) and removal of six AWE templates.**

Note: Fall Scope is marked as Independent 2022 and will be captured in a separate BRS.

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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:

1. 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.
2. 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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## 2.2 Acronyms and Definitions Table

Acronym	Definition
AWE	Alert, Warning, or Emergency Notice
EEA	Energy Emergency Alert

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### 3 Details of Business Need/Problem

#### 3.1 Description

Business Opportunity/Problem Statement:	
<b>What:</b>	Addition/Updates of four new AWE templates and removal of six AWE templates for Pre Summer 2022.
<b>When:</b>	Pre Summer 2022
<b>Why do we have this opportunity/problem:</b>	Addition of the following templates to current AWE tool: EEA Watch, EEA1, EEA2, EEA3, EEA3 Load Interruption for efficient Summer operations.
<b>Who does this opportunity/problem impact:</b>	Operations, AWE subscribers, Market Participants, Regulatory Agencies

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## 4 Business Impacts

### 4.1 Business Practice Manuals (BPM)

BPM	Description of Impact(s)
<b>Market Operations</b>	<ul style="list-style-type: none"> <li>• P39 section 2.1.6.4 bullet 2 mentions “staged” emergency, staged should be removed</li> <li>• P115 section 2.5.6 mentions Stage 1, 2, or 3 emergency, should be changed to EEA 2 or 3</li> <li>• P275 section 6.7.2.5.3 mentions “staged” emergency, staged should be removed</li> </ul>
<b>BPM Change Management</b>	Not Impacted
<b>Candidate CRR Holder Registration</b>	Not Impacted
<b>Compliance Monitoring</b>	Not Impacted
<b>Congestion Revenue Rights</b>	Not Impacted
<b>Credit Management and Market Clearing</b>	Not Impacted
<b>Definitions and Acronyms</b>	Not Impacted
<b>Demand Response</b>	Not Impacted
<b>Direct Telemetry</b>	Not Impacted
<b>Distributed Generation for Deliverability</b>	Not Impacted
<b>Energy Imbalance Market</b>	Not Impacted
<b>Generator Interconnection and Deliverability Allocation Procedures</b>	Not Impacted
<b>Generator Interconnection Procedures</b>	Not Impacted
<b>Generator Management</b>	Not Impacted
<b>Managing Full Network Model</b>	Not Impacted
<b>Market Instruments</b>	Not Impacted

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BPM	Description of Impact(s)
<b>Metering</b>	Not Impacted
<b>Outage Management</b>	Not Impacted
<b>Reliability Coordinator Services</b>	Not Impacted
<b>Reliability Requirements</b>	Not Impacted
<b>Rules of Conduct Administration</b>	Not Impacted
<b>Scheduling Coordinator Certification and Termination</b>	Not Impacted
<b>Settlements and Billing</b>	Not Impacted
<b>Transmission Planning Process</b>	Not Impacted

## 4.2 Other

Impact	Description (optional)
<b>Market Simulation</b>	No
<b>Market Participant Impact</b>	<b>Yes</b> New and updated messages.
<b>User Acceptance Testing (UAT)</b>	<b>Yes</b>
<b>Internal Training</b>	<b>Yes</b>
<b>Customer Readiness Impact</b>	Yes – see below
<ul style="list-style-type: none"> <li>• <b>External Communication Needed</b></li> </ul>	<b>Yes</b> Customer Service notification about the changes.
<ul style="list-style-type: none"> <li>• <b>External Onboarding and Maintenance</b></li> <li>• <b>External Training</b></li> </ul>	<b>Yes</b> <b>Yes</b> Emergency levels and new message types.
<ul style="list-style-type: none"> <li>• <b>External Computer Based Training</b></li> </ul>	<b>Yes</b>

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Impact	Description (optional)
<b>Policy Initiative</b>	No
<b>Development/Vendor</b>	<b>Yes</b>
<b>Architectural Framework and Roadmap</b>	This project will follow the architectural framework set forth by the architect and as documented within the Architectural Definition Document.

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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 Emergency Operations – Reserve Deficiencies/Transmission and Electric – CAISO AWE

#### 5.1.1 Business Requirements

ID#	Business Feature	Req. Type	Potential Application(s) Impacted
AWE – BRQ002	<p>System must have the following changes Pre Summer (05/01/2022):</p> <ul style="list-style-type: none"> <li>• New messages for:               <ul style="list-style-type: none"> <li>• EEA Watch</li> <li>• EEA 1</li> <li>• EEA 2</li> <li>• EEA 3</li> <li>• EEA 3 – Firm Load Interruption</li> </ul> </li> </ul> <p>Note: There are no changes for Transmission or RMO messages.</p> <p><b>Refer to the Appendix for more information.</b></p>	Core	AWE

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ID#	Business Feature	Req. Type	Potential Application(s) Impacted
AWE – BRQ003	<p>System must have the following changes Pre Summer (05/01/2022):</p> <ul style="list-style-type: none"> <li>• Deletion of following messages: <ul style="list-style-type: none"> <li>• Alert</li> <li>• Warning</li> <li>• Stage 1</li> <li>• Stage 2</li> <li>• Stage 3</li> <li>• Stage 3 – Firm Load Shedding</li> <li>• 1 hour probability notice</li> </ul> </li> </ul> <p>Note: There are no changes for Transmission or RMO messages.</p>	Core	AWE

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## 5.2 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.

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 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.

### 5.2.1 Business Requirements

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
	Not Impacted			

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## Appendix:

### 5.2.2 EEA Watch

#### EEA Watch notice

CAISO EEA Watch NOTICE [Notice No.]

The California ISO has issued an Energy Emergency Alert (EEA) Watch Notice for [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region], effective [Start Date], [Start Time] through [End Date], [End Time].

Reason: [Reason]

CAISO is forecasting an energy deficiency, with all available resources in use or forecasted to be in use, for the specified time period.

Conservation efforts are encouraged during this time, and energy market participants are encouraged to offer additional supplemental energy and ancillary service bids. During this time, participating customers may be directed by utilities to use generators approved for emergencies, or to reduce load following the protocols of each utility's programs.

For more information, view the CAISO System Emergency fact sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>).

Monitor system conditions on Today's Outlook (<http://www.caiso.com/TodaysOutlook/Pages/default.aspx>) and contact local electric utilities for details about their respective load reduction programs.

Notice issued at: [[Notice Post Date]]

#### EEA Watch Cancellation Notice

EEA Watch CANCELLATION NOTICE [Notice No.]

Effective [Date] at [Time], the California ISO terminates the [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region] Energy Emergency Alert Watch (EEA Watch) in effect since [[Effective Date]].

Refer to the CAISO System Emergency Fact Sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>) for additional detail.

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Monitor system conditions on Today's Outlook (<http://www.caiso.com/TodaysOutlook/pages/default.aspx>) and check with local electric utilities for additional information.

Notice issued at: [[Notice Post Date]]

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### 5.2.3 EEA 1

#### **EEA 1 notice**

CAISO EEA 1 NOTICE [Notice No.]

The California ISO has issued an Energy Emergency Alert (EEA) 1 Notice for [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region, effective [Start Date], [Start Time] through [End Date], [End Time]].

Reason: [Reason]

CAISO is forecasting an energy deficiency, with all available resources in use or forecasted to be in use, for the specified time period.

Conservation efforts are encouraged during this time, and energy market participants are encouraged to offer additional supplemental energy and ancillary service bids. During this time, participating customers may be directed by utilities to use generators approved for emergencies, or to reduce load following the protocols of each utility's programs.

For more information, view the CAISO System Emergency fact sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>).

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**EEA 1 Cancellation Notice**

CAISO EEA 1 CANCELLATION NOTICE [Notice No.]

Effective [Date] at [Time] the California ISO terminates the [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region] Energy Emergency Alert 1 (EEA 1) in effect since [[Effective Date]].

Refer to the CAISO System Emergency Fact Sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>) for additional detail.

Monitor system conditions on Today's Outlook (<http://www.caiso.com/TodaysOutlook/pages/default.aspx>) and check with local electric utilities for additional information.

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**5.2.4 EEA 2**

**EEA 2 notice**

CAISO EEA 2 Notice [Notice No.]

The California ISO has issued an Energy Emergency Alert (EEA) 2 Notice for [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region], effective [Start Date], [Start Time] through [End Date], [End Time].

Reason: [Reason]

CAISO is forecasting an energy deficiency, with all available resources in use or forecasted to be in use, for the specified time period.

Conservation efforts are urged during this time, and energy market participants are encouraged to offer additional supplemental energy and ancillary service bids. During this time, participating customers may be directed by utilities to use generators approved for emergencies, or to reduce load following the protocols of each utility’s programs.

To preserve grid reliability, CAISO dispatch of emergency demand response programs may be necessary during this time. Subsequently, CAISO may request Utility Distribution Companies and Metered Subsystems to voluntarily reduce electricity use.

For more information, view the CAISO System Emergency fact sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>).

Monitor system conditions on Today's Outlook (<http://www.caiso.com/TodaysOutlook/Pages/default.aspx>) and contact local electric utilities for details about their respective load reduction programs.

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**EEA 2 Cancellation Notice**

CAISO EEA 2 CANCELLATION NOTICE [Notice No.]

Effective [Date] at [Time] the California ISO terminates the [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region] Energy Emergency Alert 2 (EEA 2) in effect since [[Effective Date]].

Refer to the CAISO System Emergency Fact Sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>) for additional detail.

Monitor system conditions on Today's Outlook (<http://www.caiso.com/TodaysOutlook/Pages/default.aspx>) and check with local electric utilities for additional information.

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**5.2.5 EEA 3**

**EEA 3 notice**

CAISO EEA 3 Notice [Notice No.]

The California ISO has issued an Energy Emergency Alert (EEA) 3 Notice [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region] effective [Start Date] at [Start Time] through [End Date] at [End Time].

Reason: [Reason]

CAISO is forecasting an energy deficiency with all available resources in use for the specified time period.

Maximum conservation efforts are urged. During this time, participating customers will be directed by utilities to use generators approved for emergencies, or to reduce load following the protocols of each utility program..

Utility Distribution Companies and Metered Subsystems shall stand by for operating instructions from the CAISO for load curtailments, use of Interruptible Loads and requests Out-of-Market (OOM) and Emergency Energy from all available sources.

For more information, view the CAISO System Emergency fact sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>).

Monitor system conditions on Today's Outlook (<http://www.caiso.com/TodaysOutlook/Pages/default.aspx>) and contact local electric utilities for details about their respective load reduction programs.

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**EEA 3 Cancellation Notice**

CAISO EEA 3 System Emergency CANCELLATION Notice [Notice No.]  
Effective [Date] at [Time] the California ISO terminates the [CAISO Grid, Northern CA Region, Southern CA Region or VEA Region] Energy Emergency Alert 3 (EEA 3) in effect since [[Effective Date]].

Refer to the CAISO System Emergency Fact Sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>) for additional detail.

Monitor system conditions on Today’s Outlook (<http://www.caiso.com/TodaysOutlook/Pages/default.aspx>) and check with local electric utilities for additional information.

Notice issued at: [[Notice Post Date]]

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This CAISO notice is based on the current conditions of the transmission grid system. While this CAISO notice reflects the most current information available to the CAISO, because transmission grid system conditions are subject to sudden and rapid change without warning, the accuracy of this notice cannot be assured. This CAISO notice is provided solely for informational purposes. Reliance by any party on the contents of this CAISO notice, regardless of any errors, omissions, inaccuracies, and/or subsequent changed conditions shall not be made the basis for any claim, demand or cause for action against the CAISO. Any recipient's decisions or actions that may be based in any way whatsoever on the contents of this CAISO notice shall be the sole responsibility of the recipient.

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**5.2.6 EEA 3 – Firm Load Interruptions Notice**

 <b>California ISO</b>	<b>Technology</b>	<b>Template Version:</b>	<b>6</b>
		<b>Document Version:</b>	<b>1</b>
<b>Updates to AWE Tool – Pre Summer Business Requirements Specification - Planning</b>		<b>Date Created:</b>	<b>1/18/2022</b>

EEA 3 – Firm Load Interruptions Notice [Notice No.]

As of [Start Time] the California ISO has requested [Number/Value] MW of firm load curtailments from its Utility Distribution Companies and Metered Subsystems. To the extent practical, a portion of the total MW has been allocated to each utility on a pro-rata basis, and the utilities shall use their Electrical Emergency Plan to determine which customers are impacted. The ISO will issue a notification when firm load curtailments are no longer needed.

For more information, view the CAISO System Emergency fact sheet (<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>).

Monitor system conditions on Today's Outlook (<http://www.caiso.com/TodaysOutlook/Pages/default.aspx>) and contact local electric utilities for details about their respective load reduction programs.

Notice issued at: [[Notice Post Date]]

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**EEA 3 – Firm Load Interruptions - Cancellation Notice**

CAISO EEA 3 - Firm Load Interruptions - Notice [Notice No.]

As of [Time] the California ISO has cancelled its request for firm load curtailments, and is instructing Utility Distribution Companies and Metered Subsystems to restore their customer load.

Refer to the CAISO System Emergency Fact Sheet

(<http://www.caiso.com/Documents/SystemAlertsWarningsandEmergenciesFactSheet.pdf>) for additional detail.

Monitor system conditions on Today's Outlook

(<http://www.caiso.com/TodaysOutlook/Pages/default.aspx>) and check with local electric utilities for additional information.

Notice issued at: [[Notice Post Date]]

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