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		<b>Version No.</b>	9.0
		<b>Effective Date</b>	12/04/2020
<b>Scheduling for Stranded Loads</b>		<b>Distribution Restriction: None</b>	


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## Purpose

This procedure and its attachments, 3530H and 3530I, describes modified Interchange Scheduling requirements for ISO and adjacent Balancing Area Loads, in proximity to Interconnections, when planned or forced transmission Outages result in those Loads being isolated from their normal host Balancing Authority, or “stranded.”

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## 1. Responsibilities

<b>Transmission Operator (TOP)</b>	Communicate stranded load conditions to the ISO.
<b>ISO Transmission Desk</b>	Provide communication regarding stranded load to internal and external parties, and make entries in the ETCC.  Communicate stranded load condition to internal and external parties. Create manual market awards and confirm accuracy of market award(s) and E-Tag.
<b>ISO Real-Time Operations</b>	Analyze system conditions and communicate to the Day-Ahead Operations Engineer.
<b>Scheduling Coordinator (SC)</b>	Create tags and submit market self-schedules for stranded load conditions.
<b>ISO Operations Planning Engineer</b>	Analyze system conditions and communicate to the Real-Time Operations Engineer, and make entries in the ETCC.  Determine and communicate stranded load conditions to internal and external parties, and make entries in the ETCC.

## 2. Scope/Applicability

### 2.1 Background

#### Scheduling Coordinators


The scheduling and tagging responsibilities described in this procedure assume the SC has a valid stranded load Resource ID. To request a new Resource ID, use the following link and locate the New Intertie Resource Request form. Complete the form and submit it to [RDT@caiso.com](mailto:RDT@caiso.com).

### 2.2 Scope/ Applicability

Relevant Loads include but may not be limited to:

- PG&E Summit vicinity Load served through NVE
- BANC/WDOE Lawrence Livermore National Laboratory Load served through ISO
- SCE Silver Peak vicinity Load served through NVE

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- APS Blythe vicinity Load, served through WALC
- SCE Blythe Vicinity Load, served through WALC
- PG&E and PACW Cascade vicinity Loads served through PACW or ISO, respectively
- Plumas-Sierra Marble vicinity Load served through NVE
- Truckee/Donner Load served through NVE
- MWD vicinity pump Load served through WALC
- VEA Load served through NVE or WALC

**Note:** If there is a stranded load condition that is not previously identified, notify the Power Systems Technology Group to implement the required scripts needed for the Market Run

### 3. Procedure Detail

#### 3.1 Real-Time Outages

Take the following actions for outages that occur in Real-Time that cause stranded load:


##### 3.1.1 Transmission Operator (TOP)

Transmission Operator (TOP)
1. During the process of submitting transmission outage requests to the ISO, <ul style="list-style-type: none"> <li>• <b>Refer</b> to ISO Operating Procedure <a href="#">3210 Transmission Outages</a>.</li> <li>• <b>Identify</b> if the outage causes a stranded load condition.</li> </ul>

##### 3.1.2 ISO Transmission Desk

ISO Transmission Desk
1. <b>Receive</b> notification from the TOP. 2. <b>Communicate</b> with ISO Real-Time Operations Engineer for any unplanned outages or changes (overlapping outages, tie import/export changes, etc.) 3. If an OTC is specified for the Stranded Load scenario: <ul style="list-style-type: none"> <li>• <b>Set</b> the OTC to the new value.</li> <li>• <b>Update</b> ETCC.</li> </ul> 4. In ETCC, if the outage causes Stranded Load for the corresponding imports or exports, <ul style="list-style-type: none"> <li>• <b>Enter</b> “Stranded Load Condition” in the Short Description of the OMS Outage to notify SC’s of the condition in OASIS.</li> </ul>

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ISO Transmission Desk									
5. In ATC/ETC, for applicable contracts referenced in <b>ISO Operating Procedure 3530H Stranded Load Scheduling – Internal Attachment</b> (Restricted), <ul style="list-style-type: none"> <li>• <b>Set</b> the TOR to the proper limit.</li> </ul>									
6. <b>Notify</b> the affected adjacent BA and SC of any Real-Time Stranded Load scheduling needs.									
7. <b>Verify</b> that the export MW value equals the import MW value (i.e. net contribution to the Net Scheduled Interchange [NSI] is zero).									
8. <b>Confirm</b> information is correct for each line segment from the Emergency type E-Tag in the Misc. Info field Token/Value pairs:									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9ead3;">Token</th> <th style="background-color: #d9ead3;">Value</th> </tr> </thead> <tbody> <tr> <td>CAISO_CONTRACT</td> <td>NONE</td> </tr> <tr> <td>CAISO_PRODUCT</td> <td>ENGY</td> </tr> <tr> <td>CAISO_RES_ID</td> <td>Use a valid Intertie Stranded Load Resource ID</td> </tr> </tbody> </table>		Token	Value	CAISO_CONTRACT	NONE	CAISO_PRODUCT	ENGY	CAISO_RES_ID	Use a valid Intertie Stranded Load Resource ID
Token	Value								
CAISO_CONTRACT	NONE								
CAISO_PRODUCT	ENGY								
CAISO_RES_ID	Use a valid Intertie Stranded Load Resource ID								
9. <b>Create</b> two manual market awards in ITS for both the export and import Intertie points with the required info for each Stranded Load Resource ID.									


### 3.1.3 ISO Real-Time Operations Engineer

ISO Real-Time Operations	
1. <b>Review</b> outage and perform engineering study, if necessary.	
2. <b>Verify</b> stranded load condition does not impact scheduled outages for current and next day.	
3. <b>Notify</b> Day-Ahead Operations Engineer if the outage duration is beyond current day.	

### 3.1.4 Scheduling Coordinator (SC)

Scheduling Coordinator (SC)									
1. <b>Submit</b> ISO SIBR Self-Schedules and Interchange (E-Tag) Schedules with valid Stranded Load Resource ID(s), one for the export and one for the import, as applicable.									
2. In the E-Tag Misc. Info field for each line segment, <ul style="list-style-type: none"> <li>• <b>Submit</b> the following Token/Value pairs:</li> </ul>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9ead3;">Token</th> <th style="background-color: #d9ead3;">Value</th> </tr> </thead> <tbody> <tr> <td>CAISO_CONTRACT</td> <td>NONE</td> </tr> <tr> <td>CAISO_PRODUCT</td> <td>ENGY</td> </tr> <tr> <td>CAISO_RES_ID</td> <td>Use a valid Intertie Stranded Load Resource ID</td> </tr> </tbody> </table>		Token	Value	CAISO_CONTRACT	NONE	CAISO_PRODUCT	ENGY	CAISO_RES_ID	Use a valid Intertie Stranded Load Resource ID
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<b>Scheduling Coordinator (SC)</b>
<i>Note: OASIS transmission reservations are also required for non-CISO Physical Path segments.</i>

### 3.2 Planned Outages

Take the following actions for outages that occur in the Day-Ahead (or earlier Pre-scheduling) timeframe:


#### 3.2.1 Transmission Operator (TOP)

<b>Transmission Operator (TOP)</b>
<ol style="list-style-type: none"> <li>During the process of submitting transmission outage requests to the ISO, <ul style="list-style-type: none"> <li><b>Refer to</b> ISO Operating Procedure <a href="#">3210 Transmission Outages</a>, and</li> <li><b>Identify</b> if the outage causes a stranded load condition.</li> </ul> </li> </ol>

#### 3.2.2 Outage Coordinator

<b>ISO Operations Planning Engineer</b>
<ol style="list-style-type: none"> <li><b>Notify</b> the Day-Ahead Operations Engineer and the Transmission Desk of any potential Stranded Load scheduling scenarios. <ul style="list-style-type: none"> <li><b>Include</b> “***STRANDED LOAD*** - ETCC Updated” in the top of the notes section above Market Impacts on the outage card and Short Description of the Outage. <ul style="list-style-type: none"> <li><b>Note:</b> For some scenarios in ISO Operating Procedure <a href="#">3530H Stranded Load Scheduling – Internal Attachment</a>,</li> <li><b>Notify</b> Scheduling Coordinator.</li> </ul> </li> </ul> </li> <li><b>Email</b> Transmission Dispatchers as soon as outage is scheduled.</li> <li><b>Email</b> Transmission Dispatchers and Day-Ahead Operations Engineer two days prior to outage.</li> <li>If an OTC is specified for the Stranded Load scenario: <ul style="list-style-type: none"> <li><b>Set</b> the OTC to the new value.</li> <li><b>Update</b> ETCC.</li> </ul> </li> <li>In ETCC, if the outage causes Stranded Load for the corresponding imports or exports, <ul style="list-style-type: none"> <li><b>Enter</b> “Stranded Load Condition” in the outage Short Description to notify SC’s of the condition in OASIS.</li> </ul> </li> </ol>

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### 3.2.3 Day-Ahead Operations Engineer


ISO Day-Ahead Operations Engineer
1. In ATC/ETC, for applicable contracts referenced in ISO Operating Procedure <a href="#">3530H Stranded Load Scheduling – Internal Attachment</a> , (Restricted), <ul style="list-style-type: none"> <li>• <b>Set</b> the TOR to the proper limit.</li> </ul>

### 3.2.4 ISO Transmission Desk

Consider the following steps for the current day and any time before the next business day:

ISO Transmission Desk
<ol style="list-style-type: none"> <li>1. <b>Confirm</b> stranded load condition and tie line limitation with associated neighboring BA when going through the outages for next day.</li> <li>2. <b>Communicate</b> with Real-Time Operations Engineer for any unplanned outages or changes (overlapping outages, tie import/export changes, etc.).</li> <li>3. As applicable, <b>review</b> OTC specified by Outage Coordination for the Stranded Load scenario:               <ul style="list-style-type: none"> <li>• <b>Set</b> the OTC to the new value.</li> <li>• <b>Update</b> ETCC.</li> </ul> </li> <li>4. As applicable, <b>review</b> in ETCC set up performed by Operations Planning,               <ul style="list-style-type: none"> <li>• If needed, <b>select</b> “Stranded Load Scenario” drop down, <u>and</u></li> <li>• <b>Enter</b> “Stranded Load Condition” in the outage Short Description to <b>notify</b> SC’s of the condition in OASIS.</li> </ul> </li> <li>5. <b>Update</b> Pre-scheduling section of Turn Over sheet when initial email is received from Outage Coordination.</li> <li>6. <b>Communicate</b> with ISO Real-Time Operations Engineer before the Day-Ahead run prior to outage (Pre-scheduling time frame) to <b>ensure</b> there are no unplanned complications.</li> <li>7. <b>Notify</b> any applicable parties (adjacent BA and SC) <u>before the Day-Ahead run</u> prior to outage.</li> <li>8. After the ISO market is published,               <ul style="list-style-type: none"> <li>• <b>Verify</b> the market award has a matched import and export, <u>and</u></li> <li>• <b>Confirm</b> proper E-Tags are approved by the intermediary transmission provider.</li> <li>• <b>Verify</b> that the export MW value equals the import MW value (i.e. net contribution to the Net Scheduled Interchange [NSI] is zero).</li> </ul> </li> </ol>

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ISO Transmission Desk	
<ul style="list-style-type: none"> <li><b>Confirm</b> information is correct for each line segment from the Emergency type E-Tag in the Misc. Info field Token/Value pairs:</li> </ul>	
<b>Token</b>	<b>Value</b>
CAISO_CONTRACT	NONE
CAISO_PRODUCT	ENGY
CAISO_RES_ID	Use a valid Intertie Stranded Load Resource ID
<p>9. <b>Confirm</b>, when applicable, there is a market award in ITS for both the export and import Intertie points with valid Stranded Load IDs.</p>	


### 3.2.5 Scheduling Coordinator (SC)

Scheduling Coordinator (SC)	
<ol style="list-style-type: none"> <li><b>Submit</b> ISO SIBR Self-Schedules and Interchange (E-Tag) Schedules with valid Stranded Load Resource ID(s), one for the export and one for the import, as applicable.</li> <li>In the E-Tag Misc. Info field for each line segment, <ul style="list-style-type: none"> <li><b>Submit</b> the following Token/Value pairs:</li> </ul> </li> </ol>	
<b>Token</b>	<b>Value</b>
CAISO_CONTRACT	NONE
CAISO_PRODUCT	ENGY
CAISO_RES_ID	Use a valid Intertie Stranded Load Resource ID
<p><b>Note:</b> OASIS transmission reservations are also required for non-CISO Physical Path segments.</p>	

## 4. Supporting Information

### Operationally Affected Parties

Shared with the Public.

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## References

Resources studied in the development of this procedure and that may have an effect upon some steps taken herein include but are not limited to:

CAISO Tariff	
ISO Operating Procedure	<a href="#">3210 Transmission Outages</a> <a href="#">3530H Stranded Load Scheduling - Internal Attachment</a> <a href="#">3540 Emergency Load Transfer</a>
NERC Requirements	
WECC Criterion	
Other References	

## Definitions

Unless the context otherwise indicates, any word or expression defined in the Master Definitions Supplement to the CAISO Tariff shall have that meaning when capitalized in this Operating Procedure.

The following additional terms are capitalized in this Operating Procedure when used as defined below:


**None.**

## Version History

Version	Change	Date
8.0	Revamped the procedure by moving detail into a separate restricted and a public spreadsheet, and keeping the operator Actions in the Word document which becomes public. Other changes include changing Day-Ahead Market Operator Actions to Day-Ahead Operating Engineer or Transmission Dispatcher Actions; CAS to ITS and related changes; added Steps to Real-Time and Planned Outages.	2/25/2015
8.1	Updated the role names used in this procedure with their new role names. Changed the instances of CAISO to ISO. Minor grammar and format changes.	5/25/2017

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Version	Change	Date
8.2	Section 3: Multiple updates due to the implementation of the new ETCC tool. Replaced Peak RC with the RC. Replaced CAISO with ISO in most instances. Replaced e-Tag with to E-Tag. Minor format and grammar updates.	1/16/2019
8.3	Merged all Interchange Scheduler tasks into the Transmission Desk tasks. Removed all mentions of “Interchange Scheduler” and replaced with “Transmission Dispatcher”. Minor format and grammar updates.	4/22/2019
8.4	Added VEA Load condition to Section 2.2.	1/31/2020
9.0	Periodic Review: Minor edits with procedure references, grammar and formatting for consistency.	12/04/2020

## 5. Periodic Review Procedure

### Review Criteria & Incorporation of Changes

There are no specific criteria for reviewing or changing this document, follow instructions in **ISO Operating** Procedure 5510.

### Frequency

Every **three (3)** Years.

## Appendix

3530H Stranded Load Scheduling - Internal Attachment  
3530I Stranded Load Scheduling - Public Attachment

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