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Purpose

Provide guidance on mitigating transmission system operating Emergencies; Capacity and Energy Emergencies; and extreme weather and environmental Emergencies. Provide the RC's philosophy on load shedding.

1. Responsibilities

- Reliability Coordinator Operator
- Operations Compliance Support

2. Scope/Applicability

- Reliability Coordination during Bulk Electric System (BES) Emergencies or during conditions or events that could result in Adverse Reliability Impact on the BES.
  - As defined in the NERC Glossary, a BES Emergency is any abnormal system condition that requires automatic or immediate manual action to prevent or limit the failure of transmission facilities or generation supply that could adversely affect the reliability of the BES.
  - In addition, the NERC Glossary defines Adverse Reliability Impact as the impact of an event that results in frequency-related instability, unplanned tripping of load or generation, or uncontrolled separation or cascading outages that affects a widespread area of the Interconnection.

3. Procedure Detail

3.1. Capacity and Energy Emergencies

Each Balancing Authority (BA) shall develop, maintain, and implement an RC-reviewed Operating Plan to mitigate Capacity and Energy Emergencies within its Balancing Authority Area\(^1\). During a BA Capacity or Energy Emergency, the RC operator will declare an Energy Emergency Alert (EEA) for the affected entity. This may be at the request of the BA, or when deemed necessary in the judgment of the RC operator.

There are three levels of EEAs and an additional termination level\(^2\). It is not necessary to progress through the levels sequentially, and the RC operator should use good judgment in declaring the level best defined by the criteria. Public appeals for conservation or demand response programs under contractual agreements during normal operations do not qualify as EEA triggering events.

Following the activation of Contingency Reserves, a BA or Reserve Sharing Group (RSG) must recover Contingency Reserves within 60 minutes following an event requiring activation. If there is an additional event that takes place during this recovery period, the 60-minute recovery period resets.

\(^1\) EOP-011-1 R2
\(^2\) Attachment 1-EOP-011-1 B.
System Emergencies

The RC operator should not declare an EEA for a BA during this recovery period unless requested by the BA, or if the RC operator, after consultation with the BA, has reason to believe that the BA will not be able to recover their Contingency Reserves within the recovery period.

3.1.1. EEA 1 – All Available Generation in Use

A BA is considered to be in EEA 1 when all available generation resources are in use and/or:

- The BA is experiencing conditions where all available generation resources are committed to meet firm Load, firm transactions, and reserve commitments, and is concerned about sustaining its required Contingency Reserves.
- Non-firm wholesale energy sales (other than those that are recallable to meet reserve requirements) have been curtailed.

### Reliability Coordinator Actions

- **Discuss** with BA not meeting its Contingency Reserve requirements and evaluate mitigation options based on guidelines provided in RC West Operating Procedure RC0210 Monitoring Frequency and Balancing Authority Performance.
  - **Determine** if the BA is part of an RSG, if Contingency Reserves are deliverable to the BA and if the BA will require an EEA to get assistance from the RSG (Refer to Section 3.4.2 of RC0210).

- **Evaluate** whether the criteria for EEA 1 is met, if the BA is not part of an RSG or RSG reserves is not adequate or deliverable.
  - **Determine** status of generation in the BA and if all generation within the BA is committed to meet firm load, firm transactions and reserve commitments.
  - **Determine** whether the BA is concerned about sustaining its required Contingency Reserves.
  - **Determine** whether the BA has curtailed wholesale energy sales (other than those that are recallable to meet reserve requirements).

- **Upon discussion with the BA, declare** an EEA 1 for the BA if the criteria for EEA 1 is met, or if requested by the BA.

- **Issue** an alert to all impacted entities without delay, but not longer than within 30 minutes from time of the declaration:
  - **Notify** all BAs, TOPs, and Western RCs via GMS WECC-Wide message.
  - **Notify** market participants in the RC Area via GMS.
  - **Send** RCIS message.
  Notification should include the name of the BA, the EEA level, and if necessary, contact information that other BAs can use to provide emergency assistance.

- **Update** RCIS and GMS with any changes in information.

---

3 Attachment 1-EOP-011-1 Section B-1
4 EOP-011-1 R5.
3.1.2. **EEA 2 – Load Management Procedures in Effect**

A BA is considered to be in EEA 2 when load management procedures are in effect and/or:

- The Balancing Authority is no longer able to provide its expected energy requirements and is an energy-deficient Balancing Authority.
- An energy-deficient Balancing Authority has implemented its Operating Plan(s) to mitigate Emergencies.
- An energy-deficient BA is still able to maintain minimum Contingency Reserve requirements\(^5\).

Once an EEA 2 has been declared, the BA should provide periodic updates to the RC operator at a minimum of every hour until the EEA2 has been terminated\(^6\).

### Reliability Coordinator Actions

- **Discuss** with BA not meeting its Contingency Reserve requirements and evaluate mitigation options based on guidelines provided in RC West Operating Procedure [RC0210 Monitoring Frequency and Balancing Authority Performance](#).
  - **Determine** if the BA is part of an RSG, if Contingency Reserves are deliverable to the BA and if the BA will require an EEA to get assistance from the RSG *(Refer to Section 3.4.2 of RC0210)*.

- **Evaluate** whether the criteria for EEA 2 is met, if the BA is not part of an RSG or RSG reserves is not adequate or deliverable.
  - **Determine** whether options available to the BA under the criteria for EEA 1 have been exhausted.
  - **Determine** whether the BA is implementing demand response or other load management procedures.

- **Upon discussion with the BA, declare** an EEA 2 for the BA if the criteria for EEA 2 is met or if requested by the BA.

- **Issue** an alert to all impacted entities without delay, but not longer than within 30 minutes from the declaration:
  - **Notify** all BAs, TOPs, and Western RCs via GMS WECC-Wide message.
  - **Notify** market participants in the RC Area via GMS.
  - **Send** RCIS message.

  Notification should include the time of declaration, the BA name, the EEA level, and contact information that other BAs can use to provide emergency assistance.

- **Update** RCIS and GMS with any changes in information.

- **Review** Transmission outages and work with TOPs for viability of returning transmission elements that may relieve loading on SOLs or IROLs for the possibility of energy delivery.

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\(^5\) Attachment 1-EOP-011-1 Section B-2

\(^6\) Attachment 1-EOP-011-1 Section B-2.2 (applicable to BA)
3.1.3. EEA 3 – Firm Load Shedding Imminent or in Progress

A BA is considered to be in an EEA 3 condition when firm load interruption is imminent or in progress and the energy-deficient BA is unable to meet minimum Contingency Reserve requirements.

Before requesting an EEA 3, the energy-deficient BA must make use of all available resources; this includes, but is not limited to:

- Ensuring all available generation units are online and all generation capable of being on line within the time frame of the Emergency is on line.
- Activating Demand-Side Management within provisions of any applicable agreements.\(^7\)

The energy-deficient BA is responsible for updating the RC operator at a minimum of every hour until the EEA 3 is terminated\(^8\).

<table>
<thead>
<tr>
<th>Reliability Coordinator Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Discuss</strong> with BA not meeting its Contingency Reserve requirements and evaluate mitigation options based on guidelines provided in RC West Operating Procedure <a href="https://example.com/">RC0210 Monitoring Frequency and Balancing Authority Performance</a>.</td>
</tr>
<tr>
<td><strong>Determine</strong> if the BA is part of an RSG, if Contingency Reserves are deliverable to the BA and if the BA will require an EEA to get assistance from the RSG (Refer to Section 3.4.2 of RC0210).</td>
</tr>
<tr>
<td><strong>Evaluate</strong> whether the criteria for EEA 3 is met, if the BA is not part of an RSG or RSG reserves is not adequate or deliverable.</td>
</tr>
<tr>
<td><strong>Determine</strong> whether options available to the BA under the criteria for EEA 1 and EEA 2 have been exhausted.</td>
</tr>
<tr>
<td><strong>Verify</strong> all available generation in the BA are committed to meet firm load, firm transactions and meet reserves.</td>
</tr>
<tr>
<td><strong>Verify</strong> all available demand-side management have been activated.</td>
</tr>
<tr>
<td><strong>Upon discussion with the BA, declare</strong> an EEA 3 for the BA if the criteria for EEA 3 is met or if requested by the BA.</td>
</tr>
<tr>
<td><strong>Continue</strong> actions initiated during the EEA 2.</td>
</tr>
<tr>
<td><strong>Issue</strong> an alert to all impacted entities without delay, but not longer than 30 minutes from time of the declaration:</td>
</tr>
<tr>
<td><strong>Notify</strong> all BAs, TOPs, and Western RCs via GMS WECC-Wide message.</td>
</tr>
<tr>
<td><strong>Notify</strong> market participants in the RC Area via GMS.</td>
</tr>
<tr>
<td><strong>Send</strong> RCIS message.</td>
</tr>
</tbody>
</table>

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\(^7\) Attachment 1-EOP-011-1 Section B-2.5

\(^8\) Attachment 1-EOP-011-1 Section B-3.2 (applicable to BA)
3.1.4. EEA 0 - Termination

When the energy-deficient BA is able to meet its Load and Operating Reserve requirements, it shall request the Reliability Coordinator Operator to terminate the EEA.

Reliability Coordinator Actions

- **Confirm** with BA that it meets the criteria for EEA Termination.
- **Notify** all **applicable entities** of the termination.
  - Notify all BAs, TOPs, and Western RCs via GMS WECC-Wide message.
  - Notify market participants in the RC Area via GMS.
  - Send RCIS message.

3.1.5. EEA Templates

When declaring an EEA, the RC operator may use the following templates. Include any additional information as necessary.

- **Subject: EEA [1,2, or 3] Declaration**
  - Effective XXXX PPT, RC West has declared an EEA-[1, 2, or 3] for [entity and/or entity area (if applicable)]. Please contact them at (XXX) XXX-XXXX if you can provide them with emergency assistance.

- **Subject: EEA 0 Declaration**
  - Effective XXXX PPT, RC West has declared an EEA-0 for [entity and/or entity area (if applicable)].
3.2. Transmission System Emergencies

TOPs are expected to have Operating Plans reviewed by the RC entity to mitigate transmission system Emergencies in their area, and to notify the RC operator in real-time when the TOP is experiencing an Emergency\(^9\). A Transmission system Emergency may include, but is not limited to:

- An actual or potential IROL exceedance,
- An actual or potential SOL exceedance with potential Adverse Reliability Impacts,
- Unacceptable voltage levels,
- Loss of reactive reserves,
- Loss or potential loss of transmission elements due to fires, earthquakes, storms, physical attacks, vandalism or other reasons,
- A single or credible multiple Contingency will result in instability, uncontrolled separation, or cascading outages that adversely impact the reliability of the BES,
- System separation or islanding,
- Extraordinary Contingency, and
- Any other transmission event that result in Adverse Reliability Impact.

When the RC operator receives a notification from a TOP of an Emergency on the transmission system:

<table>
<thead>
<tr>
<th>Reliability Coordinator Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Confirm</strong> the <em>Emergency condition</em> in collaboration with the affected TOPs.</td>
</tr>
<tr>
<td><strong>Actively evaluate</strong> system conditions and <strong>determine mitigation</strong> options in coordination with TOPs contributing to and/or affected by the condition.</td>
</tr>
<tr>
<td>TOP Operating Plans include (but not limited to) mitigation options(^10) such as:</td>
</tr>
<tr>
<td>o Cancelling or recalling transmission and generation outages,</td>
</tr>
<tr>
<td>o Reconfiguring transmission system,</td>
</tr>
<tr>
<td>o Re-dispatching generation, and</td>
</tr>
<tr>
<td>o Operator-controlled manual load shedding that minimizes overlap with automatic load shedding, and is capable of being implemented in a timeframe for mitigating the Emergency.</td>
</tr>
<tr>
<td><strong>Refer</strong> to RC West Operating Procedure <a href="#">RC0460 Reliability Coordinator Area Restoration Plan</a> if electrical <em>islanding</em> has occurred.</td>
</tr>
<tr>
<td><strong>Determine</strong> if there are any SOL or IROL exceedances.</td>
</tr>
</tbody>
</table>

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\(^9\) EOP-011-1 R1 (applicable to TOP)  
\(^10\) EOP-011-1 R1.2 (applicable to TOP)
### System Emergencies

<table>
<thead>
<tr>
<th>Reliability Coordinator Procedure</th>
<th>Procedure No.</th>
<th>Version No.</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RC0410</td>
<td>3.0</td>
<td>2/04/2021</td>
</tr>
</tbody>
</table>

**Distribution Restriction:** None

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#### Reliability Coordinator Actions

- **Refer** to RC West Operating Procedure RC0310 Mitigating SOL and IROL Exceedances.
- **Issue** an alert, without delay, to all impacted entities, but no longer than within 30 minutes\(^{11}\).
  - Notify all BAs and TOPs in the RC Area via GMS.
  - Notify affected RCs.
- **Consider** initiating a conference call if the condition affects multiple entities and if a conference call will expedite coordination efforts.
- **Coordinate** mitigation activities with affected TOPs and determine if an Operating Instruction is needed.
- **Coordinate** with BAs, TOPs and neighboring RCs that may be able to provide assistance.
- **Issue** Operating Instructions without delay, in accordance with Section 3.4: Operating Instructions, and Section 3.5: Load Shedding Instructions.
- **Monitor** system conditions to determine if the instructed actions were implemented, and whether the transmission Emergency will be resolved in a timely manner.
- **Issue** additional Operating Instructions if needed.
- **Issue** notification to all impacted entities once Emergency condition has been mitigated and the system is stable:
  - Notify all BAs and TOPs in the RC Area via GMS.
  - Notify affected RCs.
- **Log** a summary of all communications and actions.

#### 3.3. Extreme Weather Emergencies

BAs and TOPs are expected to have Operating Plans (reviewed by the RC entity) that address the reliability impacts of extreme weather in their area. They are also required to notify the RC operator in Real-time when experiencing such an Emergency\(^{12}\). Extreme weather Emergencies may include, but are not limited to:

- Unanticipated high loading due to high or low temperatures,
- Wind/rain storms,
- Thunderstorms,
- Tsunamis,
- Hurricanes,
- Floods,
- Snow, and

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\(^{11}\) EOP-011-1 R5.

\(^{12}\) EOP-011-1 R1.2.6, R2.2.9 (applicable to TOP and BA respectively)
System Emergencies

- GMDs (See RC West Operating Procedure RC0430 GMD Operating Plan).

When the RC operator receives a notification from a BA or TOP of an Emergency due to extreme weather:

<table>
<thead>
<tr>
<th>Reliability Coordinator Procedure</th>
<th>Procedure No.</th>
<th>RC0410</th>
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<tbody>
<tr>
<td>Distribution Restriction: None</td>
<td>Version No.</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Effective Date</td>
<td>2/04/2021</td>
</tr>
</tbody>
</table>

Reliability Coordinator Actions

- **Issue** an *alert without delay* to all impacted entities, but no longer than within 30 minutes\(^\text{13}\).
  - Notify all BAs and TOPs in the RC Area and neighboring RCs via GMS.

- Actively **evaluate** system conditions and **determine mitigation** options in coordination with the affected BAs/TOPs. BA/TOP Operating Plans include (but not limited to) mitigation options\(^\text{14}\) such as:
  - Cancelling or recalling transmission and generation outages,
  - Reconfiguring transmission system,
  - Re-dispatching generation,
  - Shedding operator-controlled manual load that minimizes overlap with automatic load shedding, and is capable of being implemented in a timeframe for mitigating the Emergency,
  - Requesting EEAs (Refer to Section 3.1: Capacity and Energy Emergencies),
  - Managing generation to address capability and availability, fuel and inventory concerns, fuel and switching capabilities, and environmental constraints,
  - Submitting public appeals for voluntary load reductions,
  - Requesting government agencies to implement their programs to achieve necessary energy reductions,
  - Instructing a reduction of internal utility energy use, and
  - Using interruptible load, curtailable load and demand response.

- **Refer** to Section 3.2: Transmission System Emergencies if the weather Emergency is affecting the transmission system.

- **Refer** to Section 3.1: Capacity and Energy Emergencies if the weather Emergency creates capacity or energy issues.

- **Monitor** weather and forecast tools to determine the effect of current and projected conditions.

- **Coordinate** mitigation activities with affected BAs and TOPs and **determine** if an *Operating Instruction* is needed.

\(^\text{13}\) EOP-011-1 R5.

\(^\text{14}\) EOP-011-1 R1.2 (applicable to TOP)
## System Emergencies

### Reliability Coordinator Actions

- **Issue Operating Instructions** without delay, in accordance with Section 3.4: Operating Instructions, and Section 3.5: Load Shedding Instructions.

- **Issue notification** to all impacted entities when the Emergency condition has been mitigated and the system is back to normal:
  - Notify all BAs and TOPs in the RC Area and neighboring RCs via GMS.

- **Log** a summary of all communications and actions.

### 3.4. Operating Instructions

During system Emergencies, the RC operator will actively evaluate system conditions, coordinate mitigation activities with the affected BAs/TOPs and determine if there is a need to issue an Operating Instruction.

During a system Emergency, take the following actions:

#### Reliability Coordinator Actions

- Actively **evaluate** system conditions and determine possible mitigation options.
- **Coordinate** with affected BA/TOP to determine if the potential mitigation is viable.
  - If not, advise the BA/TOP of alternate or additional mitigation options.
- **Evaluate** the mitigation in progress to determine if the Emergency condition will be resolved in a timely manner.
- **Issue** an Operating Instruction without delay if the actions being taken are not adequate or will not resolve the condition in a timely manner *(Refer to RC West Operating Procedure RC0110 Communications Protocols)*.
  - If load shedding is required, refer to Section 3.5 - Load Shedding.
- **Monitor** system conditions to determine if the instructed actions were implemented and whether the issues will be resolved in a timely manner.
- **Issue** additional Operating Instructions if needed.
- **Log** a summary of all communications and actions.

### 3.5. Load Shedding Instructions

Load shedding should be considered a last resort to mitigate reliability issues that occur in Real-time. All appropriate mitigation options should first be explored as time allows, including timely demand-side management or load transfer, before issuing an Operating Instruction to shed firm load. However, during Emergency situations or during situations or events with the potential to result in Adverse Reliability Impact, the RC operator may determine that other mitigation actions will not be adequate.
or would not resolve the issue in a timely manner. In such cases, the RC operator should consider issuing an Operating Instruction to shed firm load.

3.5.1. Situations that May Require Load Shedding

The RC operator should consider issuing an Operating Instruction to shed load, when:

- A single or credible multiple Contingency will result in cascading outages, instability or voltage collapse,
- An IROL exceedance is unlikely to be mitigated within 30 minutes or $T_v$,
- Potential Adverse Reliability Impact due to generation/load imbalance caused by large sustained ACE or frequency excursion, EEA, etc., or
- Following Real-time Assessment, it is unclear whether the system can sustain the next single or credible multiple Contingency.

When the RC operator determines that one of the above Emergency conditions exists and load shedding is being considered as an option:

### Reliability Coordinator Actions

- **Perform** Real-time Assessments in collaboration with the RTOE to validate the reliability issue, if time allows.
- **Confirm** results with the affected BAs, TOPs and neighboring RCs.
- **Operate conservatively** if there is disagreement in study results between entities
  - If there is disagreement with a neighboring RC on the IROL or $T_v$ for a shared facility, operate to most limiting IROL or $T_v$.\(^{15}\)
- **Discuss** mitigation options with the affected BAs/TOPs and determine if those options can resolve the issue in a timely manner
- **Evaluate** effectiveness of mitigation in progress to determine if the condition will be resolved in timely manner
- **Determine** whether post-Contingency automatic or manual mitigation actions are available or acceptable
- **Issue** an Operating Instruction to shed load, if other mitigation actions will not resolve the issue in a timely manner (Refer to RC West Operating Procedure RC0110 Communications Protocols).
- **Log** a summary of all communications and actions.

3.5.2. When Load Shedding Instruction May Not Be Viable

Generally, an Operating Instruction to shed firm load may not be viable, when:

- The reliability issue can be mitigated in a timely manner using other mitigation actions.

\(^{15}\) IRO-009-2 R4.
System Emergencies

- Shedding firm load will violate safety, equipment, regulatory or statutory requirements.
- A load shed instruction cannot be physically implemented.
- Studies show that the risk to the system will be contained within a defined area.
- Load at risk is not sufficiently more than the load that would have to be shed pre-Contingency.

3.6. Event Reporting

Certain BES Emergencies such as IROL violations, system separation (islanding), firm load shedding, etc., require filing a NERC EOP-004 or a DOE OE-417 report. The RC operator will ensure that the appropriate internal parties are notified to ensure that the proper reports are submitted.

<table>
<thead>
<tr>
<th>Reliability Coordinator Procedure</th>
<th>Procedure No.</th>
<th>RC0410</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version No.</td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>Effective Date</td>
<td></td>
<td>2/04/2021</td>
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</table>

Reliability Coordinator Actions

- Notify internal CAISO Emergency Response Coordinator of the BES Emergency in accordance with RC West Operating Procedure RC-0420 Event Reporting.

3.7. BA and TOP EOP-011 Plan Submissions and Review

The CAISO Operations Compliance team shall work in conjunction with the RC to facilitate reviews of the Emergency Operating Plan(s) submitted by BAs and TOPs16.

The EOP-011 plans can be submitted to RC West each time the plan(s) are updated. RC West does not have an annual or periodic update requirement for EOP-011 plans.

The Plan Review Submissions library on the RC West secure website shall be used by the BAs and TOPs to upload Emergency Operating Plan(s) for RC review. The BAs and TOPs shall upload the plan document(s) with a completed RC0410A EOP-011 Plan Review Checklist.

Within 30 calendar days of receipt, RC West shall:

- Review each submitted Operating Plan(s) on the basis of compatibility and inter-dependency with other BAs’ and TOPs’ Operating Plans,
- Review each submitted Operating Plan(s) for coordination to avoid risk to Wide Area reliability, and
- Notify each BA and TOP of the results of its review, specifying any time frame for resubmittal of its Operating Plan(s) if revisions are identified.

Each TOP and BA shall address any reliability risks identified by the RC West and resubmit its Operating Plan(s) to RC West within the specified time period.

Upon RC West’s completion of the review process, the RC will post a review letter to the secure site and notify the submitting entity.

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16 EOP-011-1 R3, R3.1 and sub requirements
4. Supporting Information

Operationally Affected Parties
Shared with the Public.

References

<table>
<thead>
<tr>
<th>NERC Requirements</th>
<th>EOP-011-1 R3, R5, R6; IRO-009-2 R2, R3, R4</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA/TOP Operating Procedure</td>
<td></td>
</tr>
<tr>
<td>RC West Operating Procedures</td>
<td>RC0110 Communications Protocols</td>
</tr>
<tr>
<td></td>
<td>RC0310 Mitigating SOL and IROL Exceedances</td>
</tr>
<tr>
<td></td>
<td>RC0420 Event Reporting</td>
</tr>
<tr>
<td></td>
<td>RC0430 GMD Operating Plan</td>
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<tr>
<td></td>
<td>RC0460 Reliability Coordinator Area Restoration Plan</td>
</tr>
</tbody>
</table>

Definitions
The following terms capitalized in this Operating Procedure are in accordance with the NERC Glossary, and/or otherwise when used are as defined below:

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency or BES Emergency</td>
<td>Any abnormal system condition that requires automatic or immediate manual action to prevent or limit the failure of transmission facilities or generation supply that could adversely affect the reliability of the Bulk Electric System.</td>
</tr>
<tr>
<td>Adverse Reliability Impact</td>
<td>The impact of an event that results in frequency-related instability; unplanned tripping of load or generation; or uncontrolled separation or cascading outages that affects a widespread area of the Interconnection.</td>
</tr>
</tbody>
</table>
| Extraordinary Contingency | Shall have the meaning set out in Excuse of Performance, section B.4.c. Language in section B.4.c: Means any act of God, actions by a non-affiliated third party, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, earthquake, explosion, accident to or breakage, failure or malfunction of machinery or equipment, or any other cause beyond the Reliability Entity’s reasonable
## System Emergencies

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Emergencies</td>
<td>control; provided that prudent industry standards (e.g. maintenance, design, operation) have been employed; and provided further that no act or cause shall be considered an Extraordinary Contingency if such act or cause results in any contingency contemplated in any WECC Reliability Standard (e.g., the “Most Severe Single Contingency” as defined in the WECC Reliability Criteria or any lesser contingency).</td>
</tr>
</tbody>
</table>
| System Operator on mitigating System Operating Limit (SOL) | The value (such as MW, Mvar, amperes, frequency or volts) that satisfies the most limiting of the prescribed operating criteria for a specified system configuration to ensure operation within acceptable reliability criteria. System Operating Limits are based upon certain operating criteria. These include, but are not limited to:  
  - Facility Ratings (applicable pre- and post-Contingency Equipment Ratings or Facility Ratings),  
  - Transient stability ratings (applicable pre- and post-Contingency stability limits),  
  - Voltage stability ratings (applicable pre- and post-Contingency voltage stability), and  
  - System voltage limits (applicable pre- and post-Contingency voltage limits). |
| Interconnection Reliability Operating Limit (IROL) | A System Operating Limit that, if violated, could lead to instability, uncontrolled separation, or Cascading outages that adversely impact the reliability of the Bulk Electric System. |
| Contingency Reserve | The provision of capacity that may be deployed by the Balancing Authority to respond to a Balancing Contingency Event and other contingency requirements (such as Energy Emergency Alerts as specified in the associated EOP standard). A Balancing Authority may include in its restoration of Contingency Reserve readiness to reduce Firm Demand and include it if, and only if, the Balancing Authority:  
  - Is experiencing a Reliability Coordinator declared Energy Emergency Alert level, and is utilizing its Contingency Reserve to mitigate an operating emergency in accordance with its emergency Operating Plan, or  
  - Is utilizing its Contingency Reserve to mitigate an operating emergency in accordance with its emergency Operating Plan. |
Reliability Coordinator Procedure

System Emergencies

Term | Description
--- | ---
Reliability Coordinator (RC) Area | The collection of generation, transmission, and loads within the boundaries of the Reliability Coordinator. Its boundary coincides with one or more Balancing Authority Areas.
Capacity Emergency | A capacity emergency exists when a Balancing Authority Area’s operating capacity, plus firm purchases from other systems, to the extent available or limited by transfer capability, is inadequate to meet its demand plus its regulating requirements.
Cascading | The uncontrolled successive loss of System Elements triggered by an incident at any location. Cascading results in widespread electric service interruption that cannot be restrained from sequentially spreading beyond an area predetermined by studies.
Contingency | The unexpected failure or outage of a system component, such as a generator, transmission line, circuit breaker, switch or other electrical element.
Energy Emergency | A condition when a Load-Serving Entity or Balancing Authority has exhausted all other resource options and can no longer meet its expected Load obligations.

Version History

<table>
<thead>
<tr>
<th>Version</th>
<th>Change</th>
<th>Date</th>
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<tbody>
<tr>
<td>1.0</td>
<td>Approved by Steering Committee.</td>
<td>9/26/18</td>
</tr>
<tr>
<td>1.1</td>
<td>Section 3.3: Corrected minor reference error.</td>
<td>11/20/18</td>
</tr>
<tr>
<td>1.2</td>
<td>Added notification to market participants when declaring EEAs. Removed references to RCIS in Section 3.2. Added RC0410A to Appendix section.</td>
<td>4/19/19</td>
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<tr>
<td>2.0</td>
<td>Annual Review: Section 3.3: Updated notification information and removed RCIS as a form of notification for extreme weather only. Section 3.7: Clarified plan submission requirements Replaced CAISO RC with RC West and updated to RC West logo. Minor grammar and format updates.</td>
<td>4/21/20</td>
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<td>3.0</td>
<td>Annual Review: Updated criteria for issuing EEAs in Section 3.1, and clarified references to RC0210. Updated all RC West</td>
<td>2/04/21</td>
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</table>
## 5. Periodic Review Procedure

**Review Criteria & Incorporation of Changes**

There are no specific review criteria identified for this document.

**Frequency**

*Annual.*

### Appendix

RC0410A EOP-011 Plan Review Checklist