# PRC-010-AB-2

# Under Voltage Load Shedding

# Standard Effective Date: January 1, 2022

## Audit Summary

|  |  |
| --- | --- |
| **Registered Entity:** | [Registered Entity name as it appears in the AESO ARS Registry] |
| **Functional Entity:** | [Functional entities for which the Registered Entity above was registered throughout the audit period] |
| **Audit Period:** | From: [Audit start date or standard effective date, whichever comes later]  To: [Audit end date or standard withdrawal/supersede date, whichever comes first] |
| **Audit:** | [Scheduled (YYYY-QX) or Spot Check YYYY-MM-DD] |
| **Compliance Monitoring Entity:** | Alberta Electric System Operator (AESO) |
| **Suspected Non-Compliance to the standard?** | |  |  | | --- | --- | |  |  | |  | [If **Yes**, list the requirements with suspected contravention findings e.g. R1, R2, R5] | |
| **Date of Completion** | [Use YYYY-MM-DD format] |

## Assessment Commentary

[Information (if any) relevant to audit findings below]

## Findings

R2 [Summary of Findings]

R7 [Summary of Findings]

## Contact Information

| **Audited Entity** | |
| --- | --- |
| **Compliance Primary** | Name:  Title:  Phone:  Email: |
| **Subject Matter Expert** | Name:  Title:  Phone:  Email: |

| **AESO Team** | |
| --- | --- |
| **Lead Auditor** | Name:  Title:  Phone:  Email: |
| **Auditor** | Name:  Title:  Phone:  Email: |
| **Compliance Manager** | Name:  Title:  Phone:  Email: |
| **Standard Owner** | Name:  Title:  Phone:  Email: |

## Applicability

This **reliability standard** applies to:

(a) the **legal owner** of a **transmission facility** that has responsibility in an **under voltage load shed** program the **ISO** establishes;

(b) the **legal owner** of an **electric distribution system** that has responsibility in an **under voltage load shed** program the **ISO** establishes;

(c) a **market participant** receiving service under Rate DTS of the **ISO tariff** that has responsibility in an **under voltage load shed** program the **ISO** establishes; and

(d) the **ISO**.

## Compliance Assessment

| **Requirement and Measure** | **Evidence Submission** | **Evidence Description** | **Evidence** | **Assessment Approach** | **Auditor Notes** |
| --- | --- | --- | --- | --- | --- |
| **R2** Each **legal owner** of a **transmission facility**, **legal owner** of an **electric distribution system**, and **market participant** receiving service under Rate DTS of the **ISO tariff** must adhere to the **under voltage load shed** program specifications and implementation schedule the **ISO** determines and associated with any corrective action plans in accordance with requirement R5.  **MR2** Evidence of adhering to specifications, implementation of the **under voltage load shed** program and any corrective action plans as required in requirement R2 exists. Evidence may include date-stamped documentation on the completion of actions and may include identifying the equipment armed with **under voltage load shed** relays, the **under voltage load shed** relay settings, associated load summaries, work management program records, work orders, and maintenance records, or other equivalent evidence. | **AR2** Please provide:   1. Dated copies of all **under voltage load shed** program specifications and associated implementation schedules received from the **ISO** under R1.   If a program specification or an associated implementation schedule was not received from the **ISO** under under R1, provide an attestation letter to this effect and do not complete AR2 (iii). | Provide descriptions for AR2 (i) submitted evidence: | Embed file or link to evidence | Review the evidence for completeness. | *For AESO use only* |
| 1. Dated copies of all **under voltage load shed** corrective action plans and associated implementation schedules received from the **ISO** under R5.   If a program specification or an associated implementation schedule was not received from the **ISO** under under R1, provide an attestation letter to this effect and do not complete AR2 (iv). | Provide descriptions for AR2 (ii) submitted evidence: | Embed file or link to evidence | Review the evidence for completeness. | *For AESO use only* |
| 1. Dated-documentation demonstrating that the **under voltage load shed** program specification(s) provided in AR2 (i) had their specified action(s) completed within the specified timeframe(s). | Provide descriptions for AR3 (iii) submitted evidence: | Embed file or link to evidence | Review the evidence provided for completion of the **under voltage load shed** program specification(s) and verify that it demonstrates that all specific actions were satisfied and implementented in accordance with the specified timeframe(s). | *For AESO use only* |
| 1. Dated-documentation demonstrating that the **under voltage load shed** corrective action plan(s) provided in AR2 (ii) were completed within the specified timeframe(s). | Provide descriptions for AR3 (iv) submitted evidence: | Embed file or link to evidence | Review the evidence provided for completion of the **under voltage load shed** corrective action plan(s) and verify that it demonstrates that all specific actions were satisfied and implementented in accordance with the specified timeframes. | *For AESO use only* |
| 1. Any other evidence to demonstrate compliance with R2. | Provide descriptions for other submitted evidence | Embed file or link to evidence | Review any other evidence submitted to determine whether it meets the intent of R2. | *For AESO use only* |
| **Findings** | | | | | |
| *For AESO use only* | | | | | |

| **Requirement and Measure** | **Evidence Submission** | **Evidence Description** | **Evidence** | **Assessment Approach** | **Auditor Notes** |
| --- | --- | --- | --- | --- | --- |
| **R7** Each **legal owner** of a **transmission facility**, **legal owner** of an **electric distribution system,** and **market participant** receiving service under Rate DTS of the **ISO tariff** must provide data to support maintenance of the **under voltage load shed** program to the **ISO** according to the schedule the **ISO** specifies.  **MR7** Evidence of providing data to the **ISO** in accordance with requirement R7 exists. Evidence may include date-stamped emails, letters, or other documentation demonstrating data was provided to the **ISO** as specified, or other equivalent evidence. | **AR7** Please provide:   1. Dated copies of all **under voltage load shed** maintenance data requests and associated schedules received from the **ISO**.   If a data request or an associated schedule was not received from the **ISO** under under R6, provide an attestation letter to this effect and do not complete AR7 (ii). | Provide descriptions for AR7 (i) submitted evidence: | Embed file or link to evidence | Review the evidence for completeness. | *For AESO use only* |
| 1. Dated-documentation demonstrating that the **under voltage load shed**  maintenance data requested by the **ISO** was provided according to the specified schedule. | Provide descriptions for AR7 (ii) submitted evidence: | Embed file or link to evidence | Review the evidence and verify that the the **under voltage load shed** maintenance data requested by the **ISO** was provided according to the schedule specified by the **ISO**. | *For AESO use only* |
| 1. Any other evidence to demonstrate compliance with R7. | Provide descriptions for other submitted evidence | Embed file or link to evidence | Review any other evidence submitted to determine whether it meets the intent of R2. | *For AESO use only* |
| **Findings** | | | | | |
| *For AESO use only* | | | | | |

## General Notes

The AESO developed this Reliability Standard Audit Worksheet (RSAW) to add clarity and consistency to the audit team’s assessment of compliance with this reliability standard, including the approach elected to assess requirements.

Additionally, the RSAW provides a non-exclusive list of examples of the types of evidence a **market participant** may produce or may be asked to produce to demonstrate compliance with this reliability standard. A **market participant**’s adherence to the examples contained within this RSAW does not constitute compliance with the reliability standard.

This document is not an AESO authoritative document and revisions to it may be made from time to time by the AESO. **Market participant**s are notified of revisions through the stakeholder update process.

## Notes to File

[For AESO use only: any observations, remarks or action items for future audits]

## Revision History

| **Version** | **Issue Date** | **Description** |
| --- | --- | --- |
| 1.0 | October 18, 2021 | Initial version |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |