

Alberta Reliability Standard

Operating Personnel Credentials

PER-003-AB-2

A. Introduction

1. Title: Operating Personnel Credentials
2. Number: PER-003-AB-2
3. Purpose: To ensure that operating personnel performing the **reliability**-related tasks of the **ISO** and an **operator** of a **transmission facility** are certified through the NERC System Operator Certification Program when filling a real-time operating position responsible for control of the **bulk electric system**.
4. Applicability:
 - 4.1. Functional Entities:
 - 4.1.1. the **ISO**; and
 - 4.1.2. the **operator** of a **transmission facility** that is part of the **bulk electric system**.
 - 4.2. this **reliability standard** does not apply to the **operator** of a **transmission facility** whose **transmission facilities** are only:
 - 4.2.1. **radial circuits** connecting to:
 - 4.2.1.1. load;
 - 4.2.1.2. one or more **generating units** that are only used to export energy directly from a **generating unit**;
 - 4.2.1.3. one or more **aggregated facilities** that are only used to export energy directly from an **aggregated facility**;
 - 4.2.1.4. one or more **energy storage resources** that are only used for the operation of the **energy storage resource**; or
 - 4.2.2. either part of an industrial complex or connected to an industrial complex and cannot interrupt power flow on the **interconnected electric system**, other than power flow on its own **transmission facilities**.
5. Effective Date: The later of (i) July 1, 2029, and (ii) the first **day** of the first calendar quarter 6 **months** following **Commission** approval.

B. Requirements and Measures

- R1. The **ISO** must staff its real-time operating positions performing **reliability**-related tasks for the **ISO** with operating personnel who have demonstrated minimum competency in the areas listed by

Alberta Reliability Standard

Operating Personnel Credentials

PER-003-AB-2

obtaining and maintaining a valid NERC Reliability Operator certificate:¹² *[Alberta Risk Rating: High]*
[Time Horizon: Real-time Operations]

1.1. Areas of competency

- 1.1.1. Resource and demand balancing;
- 1.1.2. Transmission operations;
- 1.1.3. Emergency preparedness and operations;
- 1.1.4. System operations;
- 1.1.5. Protection and control;
- 1.1.6. Voltage and reactive;
- 1.1.7. Interchange scheduling and coordination; and
- 1.1.8. Interconnection **reliability** operations and coordination.

M1. The **ISO** must have the following evidence to show that it staffed its real-time operating positions performing **reliability**-related tasks with operating personnel who have demonstrated the applicable minimum competency by obtaining and maintaining the appropriate, valid NERC certificate:

- 1.1. A list of real-time operating positions;
- 1.2. A list of operating personnel assigned to its real-time operating positions;
- 1.3. A copy of each of its operating personnel's NERC certificate or NERC certificate number with expiration date which demonstrates compliance with the applicable areas of competency; and
- 1.4. Work schedules, work logs, or other equivalent evidence showing which operating personnel were assigned to work in real-time operating positions.

R2. Each **operator** of a **transmission facility** must staff its real-time operating positions performing **reliability**-related tasks for the **operator** of a **transmission facility** with operating personnel who have demonstrated minimum competency in the areas listed by obtaining and maintaining one of the following valid NERC certificates:³⁴ *[Alberta Risk Rating: High]* *[Time Horizon: Real-time Operations]*

2.1. Areas of competency

- 2.1.1. Transmission operations;

¹ Non-NERC certified personnel performing any **reliability**-related task of a real-time operating position must be under the direct supervision of a NERC Certified operating personnel stationed at that operating position; the NERC Certified operating personnel at that operating position has ultimate responsibility for the performance of the **reliability**-related tasks.

² The NERC certificates referenced in this standard pertain to those certificates identified in the NERC System Operator Certification Program Manual.

³ Non-NERC certified personnel performing any **reliability**-related task of a real-time operating position must be under the direct supervision of a NERC Certified operating personnel stationed at that operating position; the NERC Certified operating personnel at that operating position has ultimate responsibility for the performance of the **reliability**-related tasks.

⁴ The NERC certificates referenced in this standard pertain to those certificates identified in the NERC System Operator Certification Program Manual.

Alberta Reliability Standard

Operating Personnel Credentials

PER-003-AB-2

- 2.1.2. Emergency preparedness and operations;
- 2.1.3. System operations;
- 2.1.4. Protection and control; and
- 2.1.5. Voltage and reactive.
- 2.2. Certificates
 - 2.2.1. Reliability Operator;
 - 2.2.2. Balancing, Interchange and Transmission Operator; or
 - 2.2.3. Transmission Operator.

M2. Each **operator** of a **transmission facility** must have the following evidence to show that it staffed its real-time operating positions performing **reliability**-related tasks with operating personnel who have demonstrated the applicable minimum competency by obtaining and maintaining the appropriate, valid NERC certificate:

- 2.1. A list of real-time operating positions;
- 2.2. A list of operating personnel assigned to its real-time operating positions;
- 2.3. A copy of each of its operating personnel's NERC certificate or NERC certificate number with expiration date which demonstrates compliance with the applicable areas of competency; and
- 2.4. Work schedules, work logs, or other equivalent evidence showing which operating personnel were assigned to work in real-time operating positions.

R3. [Intentionally left blank.]

- 3.1. [Intentionally left blank.]
 - 3.1.1. [Intentionally left blank.]
 - 3.1.2. [Intentionally left blank.]
 - 3.1.3. [Intentionally left blank.]
 - 3.1.4. [Intentionally left blank.]
- 3.2. [Intentionally left blank.]
 - 3.2.1. [Intentionally left blank.]
 - 3.2.2. [Intentionally left blank.]
 - 3.2.3. [Intentionally left blank.]

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- 3.1. [Intentionally left blank.]
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- 3.4. [Intentionally left blank.]

Alberta Reliability Standard

Operating Personnel Credentials

PER-003-AB-2

C. Compliance

[Intentionally left blank.]

D. Regional Variances

None.

E. Associated Documents

AESO ID#2018-023, *PER-003-AB-1 Clarification of Terms* and any amendments made thereto from time to time

Version History

Version	Effective Date	Description of Changes
AB-2	The later of (i) July 1, 2029, and (ii) the first day of the first calendar quarter 6 months following Commission approval.	Updated in accordance with FERC Docket No. RD18-9-000. Adopted PER-003-AB-2 Requirement R1 which replaces retired PER-004-AB-1 Requirement R1. Added areas of competencies and footnote to R1 and R2 to better align with NERC and to clarify connection between PER-003 and the NERC certification program and related certification program manual.
AB-1	2019-12-01	Unbolded “real time”.
AB-1	2019-01-01	Initial Release.