

**Exhibit A**

**PRC-004-4(i) Reliability Standard**

**Clean and Redline Implementation Plan**

# Implementation Plan

## Dispersed Generation Resources

### PRC-004-4(i)

#### Standards Involved

##### Approval:

- PRC-004-4(i) – Protection System Misoperation Identification and Correction

##### Retirement:

- PRC-004-3 – Protection System Misoperation Identification and Correction
- PRC-004-2.1(i)a - Protection System Misoperation Identification and Correction

#### Prerequisite Approvals:

- PRC-004-3 – Protection System Misoperation Identification and Correction<sup>1</sup>

#### Background

In light of the adoption of a revised Bulk Electric System definition by the NERC Board of Trustees, changes to the applicability sections of certain Reliability Standards, including PRC-004, are necessary to align with the implementation of the revised Bulk Electric System definition. The Standard Drafting Team (SDT) for Project 2014-01 – Standards Applicability for Dispersed Power Producing Resources has modified the applicability section or requirements of certain standards applicable to Generator Owners and Generator Operators to recognize the unique technical and reliability aspects of dispersed generation in order to ensure the applicability of the standards is consistent with the reliable operation of the Bulk Power System.

#### General Considerations

PRC-004-4 was proposed for approval to align the applicability section of PRC-004-3 with the revised definition of the Bulk Electric System. The intent of the SDT was to allow for flexibility of the PRC-004 applicability section regardless of the version that is currently in effect when an applicable governmental authority acts on the PRC-004-3 filing. PRC-004-2.1a was in effect as PRC-004-3 (developed in Project 2010-05.1) was pending regulatory approval. It was contemplated that depending on the timing of approvals for various versions of PRC-004, that PRC-004-2.1a might still be in effect at the time the revised definition of Bulk Electric System becomes effective for all entities. If this occurs, PRC-004-2.1(i)a will go into effect and PRC-004-4(i) shall go into effect after the technical revisions

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<sup>1</sup> PRC-004-3 was adopted by the NERC Board of Trustees on August 18, 2014.

developed in Project 2010-05.1 are approved by applicable regulators, or as otherwise provided for in jurisdictions that do not require regulatory approvals.

**Effective Date**

PRC-004-4(i) shall become effective on the later of the effective date of PRC-004-3, or the date that PRC-004-4 is approved by an applicable governmental authority or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective either on the first day of the first calendar quarter after the date PRC-004-4 is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction, or 12 months following the effective date of PRC-004-3, whichever is later.

**Retirement of Existing Standards:**

The existing standard, PRC-004-3 and PRC-004-2.1(i)a, shall be retired at midnight of the day immediately prior to the Effective Date of PRC-004-4.

For clarity, note that this Implementation Plan intends that upon effectiveness of the Reliability Standard PRC-004-4(i) all prior versions of Reliability Standard PRC-004 will be retired.

**Applicability:**

This standard applies to the following functional entities:

- Transmission Owner
- Generator Owner
- Distribution Provider

# Implementation Plan

## Dispersed Generation Resources

### PRC-004-4(i)

#### Standards Involved

##### Approval:

- PRC-004-4(i) – Protection System Misoperation Identification and Correction

##### Retirement:

- PRC-004-3 – Protection System Misoperation Identification and Correction
- PRC-004-2.1(i)a - Protection System Misoperation Identification and Correction

#### Prerequisite Approvals:

- PRC-004-3 – Protection System Misoperation Identification and Correction<sup>1</sup>

#### Background

In light of the adoption of a revised Bulk Electric System definition by the NERC Board of Trustees, changes to the applicability sections of certain Reliability Standards, including PRC-004, are necessary to align with the implementation of the revised Bulk Electric System definition. The Standard Drafting Team (SDT) for Project 2014-01 – Standards Applicability for Dispersed Power Producing Resources has modified the applicability section or requirements of certain standards applicable to Generator Owners and Generator Operators to recognize the unique technical and reliability aspects of dispersed generation in order to ensure the applicability of the standards is consistent with the reliable operation of the Bulk Power System.

#### General Considerations

PRC-004-4 ~~is was~~ proposed for approval to align the applicability section of PRC-004-3 with the revised definition of the Bulk Electric System. The intent of the SDT was to allow for flexibility of the PRC-004 applicability section regardless of the version that is currently in effect when an applicable governmental authority acts on the PRC-004-3 filing. ~~Currently,~~ PRC-004-2.1a ~~is was~~ in effect as PRC-004-3 (developed in Project 2010-05.1) ~~is was~~ pending regulatory approval. ~~It was contemplated that~~ ~~De~~ depending on the timing of approvals for various versions of PRC-004, ~~that~~ PRC-004-2.1a ~~may might~~ still be in effect at the time the revised definition of Bulk Electric System becomes effective for all entities. If this occurs, PRC-004-2.1(i)a will go into effect and PRC-004-4(i) shall go into effect after the

<sup>1</sup> PRC-004-3 was adopted by the NERC Board of Trustees on August 18, 2014.

technical revisions developed in Project 2010-05.1 are approved by applicable regulators, or as otherwise provided for in jurisdictions that do not require regulatory approvals.

**Effective Date**

PRC-004-4(i) shall become effective on the later of the effective date of PRC-004-3, or the date that PRC-004-4 is approved by an applicable governmental authority or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective either on the first day of the first calendar quarter after the date ~~the standard PRC-004-4~~ is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction, or 12 months following the effective date of PRC-004-3, whichever is later.

**Retirement of Existing Standards:**

The existing standard, PRC-004-3 and PRC-004-2.1(i)a, shall be retired at midnight of the day immediately prior to the Effective Date of PRC-004-4.

For clarity, note that this Implementation Plan intends that upon effectiveness of the Reliability Standard PRC-004-4(i) all prior versions of Reliability Standard PRC-004 will be retired.

**Applicability:**

This standard applies to the following functional entities:

- Transmission Owner
- Generator Owner
- Distribution Provider

**PRC-004-5(i) Reliability Standard**

**Clean and Redline Implementation Plan**

# Implementation Plan

## PRC-004-5(i) – Protection System Misoperation Identification and Correction Project 2008-02.2 – Phase 2 UVLS: Misoperations

### Requested Approvals

- PRC-004-5(i) – Protection System Misoperation Identification and Correction

### Requested Retirements

- PRC-004-4 – Protection System Misoperation Identification and Correction<sup>1</sup>

### Prerequisite Approvals

- PRC-010-2 – Undervoltage Load Shedding

### General Considerations

The implementation period is intended to align with the Effective Date of PRC-010-1 or occurring soon thereafter in order to incorporate certain aspects of PRC-022-1 – Under-Voltage Load Shedding Program Performance into PRC-004-5. The standard PRC-022-1 was retired by PRC-010-1. The Implementation Plan for PRC-010-1<sup>2</sup> allows twelve (12) calendar months after applicable approvals. Version two of PRC-010 is including undervoltage load shedding (UVLS) that is included in a UVLS Program.

### Applicable Entities

- Transmission Owner
- Generator Owner
- Distribution Provider

<sup>1</sup> For clarity, note that this Implementation Plan intends that upon effectiveness of the Reliability Standard PRC-004-5(i) all prior versions of Reliability Standard PRC-004 will be retired..

<sup>2</sup> Refer to Project 2008-02.2 on the NERC website. ([http://www.nerc.com/pa/Stand/Pages/Project-2008-02\\_2-Phase-2-Undervoltage-Load-Shedding-UVLS-Misoperations.aspx](http://www.nerc.com/pa/Stand/Pages/Project-2008-02_2-Phase-2-Undervoltage-Load-Shedding-UVLS-Misoperations.aspx))



**Effective Dates**

PRC-004-5(i) shall become effective on the later of the first day following the Effective Date of PRC-010-1 or the first day of the first calendar quarter after the standard is approved by an applicable governmental authority or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective on the later of the first day following the Effective Date of PRC-010-1 or the first day of the first calendar quarter after the date PRC-004-5 is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction.

## Implementation Plan

### PRC-004-5(i) – Protection System Misoperation Identification and Correction Project 2008-02.2 – Phase 2 UVLS: Misoperations

#### Requested Approvals

- PRC-004-5(i) – Protection System Misoperation Identification and Correction

#### Requested Retirements

- PRC-004-4 – Protection System Misoperation Identification and Correction<sup>1</sup>

#### Prerequisite Approvals

- PRC-010-2 – Undervoltage Load Shedding

#### General Considerations

The implementation period is intended to align with the Effective Date of PRC-010-1 or occurring soon thereafter in order to incorporate certain aspects of PRC-022-1 – Under-Voltage Load Shedding Program Performance into PRC-004-5. The standard PRC-022-1 was retired by PRC-010-1. The Implementation Plan for PRC-010-1<sup>2</sup> allows twelve (12) calendar months after applicable approvals. Version two of PRC-010 is including undervoltage load shedding (UVLS) that is included in a UVLS Program.

#### Applicable Entities

- Transmission Owner
- Generator Owner
- Distribution Provider

<sup>1</sup> For clarity, note that this Implementation Plan intends that upon effectiveness of the Reliability Standard PRC-004-5(i) all prior versions of Reliability Standard PRC-004 will be retired. PRC-004-4 was adopted by the NERC Board of Trustees on November 13, 2014. PRC-004-4 is pending adoption or approval by applicable governmental authorities. PRC-004-5 will retire PRC-004-4 if PRC-004-4 is not adopted or approved by an applicable governmental authority.

<sup>2</sup> Refer to Project 2008-02.2 on the NERC website. ([http://www.nerc.com/pa/Stand/Pages/Project-2008-02\\_2-Phase-2-Undervoltage-Load-Shedding-UVLS-Misoperations.aspx](http://www.nerc.com/pa/Stand/Pages/Project-2008-02_2-Phase-2-Undervoltage-Load-Shedding-UVLS-Misoperations.aspx))

**Effective Dates**

PRC-004-5(i) shall become effective on the later of the first day following the Effective Date of PRC-010-1 or the first day of the first calendar quarter after the standard is approved by an applicable governmental authority or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective on the later of the first day following the Effective Date of PRC-010-1 or the first day of the first calendar quarter after the date ~~PRC-004-5~~ the standard is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction.