

## **WECC Standard IRO-006-WECC-1 – Qualified Transfer Path Unscheduled Flow Relief**

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### **Standard Development Roadmap**

*This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.*

#### **Development Steps Completed:**

<b>Completed Actions</b>	<b>Completion Date</b>
1. Post Draft Standard for initial industry comments	September 21, 2007
2. Drafting Team to review and respond to initial industry comments	November 30, 2007
3. Post Draft Standard for industry comments	November 30, 2007
4. Drafting Team to review and respond to industry comments	January 17, 2008
5. Post Draft Standard for Operating Committee approval	January 17, 2008
6. Operating Committee ballots proposed standard	March 6, 2008
7. Post Draft Standard for WECC Board approval	March 12, 2008

#### **Description of Current Draft:**

The purpose of this standard is to create a permanent replacement standard for IRO-STD-006-0. IRO-006-WECC-1 is designed to implement the directives of FERC and recommendations of NERC when IRO-STD-006-0 was approved as a NERC reliability standard. A white paper is attached to explain the refinements in this reliability standard.

This posting of the standard is for WECC Board of Directors ballot. The Operating Committee recommends that the WECC Board of Directors approve the IRO-006-WECC-1 as a permanent replacement standard for IRO-STD-006-0 and that the WSCC Board of Directors submit the standard to NERC and FERC for approval.

#### **Future Development Plan:**

<b>Anticipated Actions</b>	<b>Anticipated Date</b>
1. Post Draft Standard for NERC comment period	March 28, 2008
2. WECC Board ballots proposed standard	April 16-18, 2008
3. Drafting Team to review and respond to industry comments	May 2008
4. NERC Board approval request	May 2008
5. Request FERC approval	June 2008

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### **Definitions of Terms Used in Standard**

*This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these definitions will be removed from the standard and added to the Glossary.*

#### **DEFINITIONS:**

**Contributing Schedule** is defined as a Schedule not on the Qualified Transfer Path between a Source Balancing Authority and a Sink Balancing Authority that contributes unscheduled flow across the Qualified Transfer Path.

**Qualified Transfer Path:** A transfer path designated by the WECC Operating Committee as being qualified for WECC unscheduled flow mitigation.

**Qualified Controllable Device:** A controllable device installed in the Interconnection for controlling energy flow, and the WECC Operating Committee has approved using the device for controlling the USF on the Qualified Transfer Paths.

**Qualified Transfer Path Curtailment Event:** Each hour that a Transmission Operator calls for Step 4 or higher for one or more consecutive hours (see Attachment 1-IRO-006-WECC-1) during which the curtailment tool is functional.

**Transfer Distribution Factor (TDF):** The percentage of USF that flows across a Qualified Transfer Path when an Interchange Transaction (Contributing Schedule) is implemented. [See the WECC Unscheduled Flow Mitigation Summary of Actions Table (Attachment 1 WECC IRO-006-WECC-1).]

**Relief Requirement:** The expected amount of the unscheduled flow reduction on the Qualified Transfer Path that would result by curtailing each Sink Balancing Authority's Contributing Schedules by the percentages listed in the columns of WECC Unscheduled Flow Mitigation Summary of Actions Table in Attachment 1 WECC IRO-006-WECC-1.

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## A. Introduction

1. **Title:** Qualified Transfer Path Unscheduled Flow (USF) Relief
2. **Number:** IRO-006-WECC-1
3. **Purpose:** Mitigation of transmission overloads due to unscheduled flow on Qualified Transfer Paths.
4. **Applicability**
  - 4.1. Balancing Authorities
  - 4.2. Reliability Coordinators
5. **Effective Date:** The first day of the first quarter after applicable regulatory approvals.

## B. Requirements

- R.1. Upon receiving a request of Step 4 or greater (see Attachment 1-IRO-006-WECC-1) from the Transmission Operator of a Qualified Transfer Path, the Reliability Coordinator shall approve (actively or passively) or deny that request within five minutes. *[Violation Risk Factor: Medium] [Time Horizon: Real-time Operations]*
- R.2. The Balancing Authorities shall approve curtailment requests to the schedules as submitted, implement alternative actions, or a combination thereof that collectively meets the Relief Requirement. *[Violation Risk Factor: Medium] [Time Horizon: Real-time Operations]*

## C. Measures

- M1. The Reliability Coordinator shall have evidence that it approved or denied the request within five minutes in accordance with R1.
- M2. The Balancing Authorities shall have evidence that they provided the Relief Requirement through Contributing Schedules curtailments, alternative actions, or a combination that collectively meets the Relief Requirement as directed in R.2.

## D. Compliance

1. **Compliance Monitoring Process**
  - 1.1 **Compliance Monitoring Responsibility**

Compliance Enforcement Authority
  - 1.2 **Compliance Monitoring Period and Reset**

Compliance Enforcement Authority may use one or more of the following methods to assess compliance:

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- Reviews conducted monthly
- Spot check audits conducted anytime with 30 days notice given to prepare
- Periodic audit as scheduled by the Compliance Enforcement Authority
- Investigations
- Other methods as provided for in the Compliance Monitoring Enforcement Program

**1.2.1** Compliance Monitoring Period: A Qualified Transfer Path Curtailment Event

**1.2.2** The Performance-reset Period is one calendar month.

### **1.3. Data Retention**

Reliability Coordinators and Balancing Authorities shall keep evidence for Measure M.1 through M2 for three years plus current, or since the last audit, whichever is longer.

### **1.4. Additional Compliance Information**

Compliance shall be determined by a single event, per path, per calendar month (at a minimum) provided at least one event occurs in that month.

## **2. Violation Severity Levels of Non-Compliance for Requirement R1**

- 2.1. Lower:** There shall be a Lower Level of non-compliance if there is one instance during a calendar month in which the Reliability Coordinator approved (actively or passively) or denied a Step 4 or greater request greater than five minutes after receipt of notification from the Transmission Operator of a Qualified Transfer Path.
- 2.2. Moderate:** Not Applicable
- 2.3. High:** Not Applicable
- 2.4. Severe:** Not Applicable

## **3. Violation Severity Levels of Non-Compliance for Requirement R2**

- 2.1. Lower:** There shall be a Lower Level of non-compliance if there is less than 100% Relief Requirement provided but greater than or equal to 90% Relief Requirement provided or the Relief Requirement was less than 5 MW and was not provided.
- 2.2. Moderate:** There shall be a Moderate Level of non-compliance if there is less than 90% Relief Requirement provided but greater than or equal to 75% Relief Requirement provided and the Relief Requirement was greater than 5 MW and was not provided.
- 2.3. High:** There shall be a High Level of non-compliance if there is less than 75% Relief Requirement provided but greater than or equal to 60% Relief Requirement provided and the Relief Requirement was greater than 5 MW and was not provided.
- 2.4. Severe:** There shall be a Severe Level of non-compliance if there is less than 60% Relief Requirement provided and the Relief Requirement was greater than 5 MW and was not provided.

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**Version History – Shows Approval History and Summary of Changes in the Action Field**

<b>Version</b>	<b>Date</b>	<b>Action</b>	<b>Change Tracking</b>
1	January 1, 2008	Permanent Replacement Standard for IRO-STD-006-0	

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**Attachment 1 WECC IRO-006-WECC-1  
WECC UNSCHEDULED FLOW MITIGATION  
SUMMARY OF ACTIONS**

Step	Action Description	Unscheduled Flow Accommodation across Path	Equivalent Percent Curtailment Required in Contributing Schedule -Based on amount of Unscheduled Flow across the Qualified Transfer Path (Transfer Distribution Factor)				
			10-14%	15-19%	20-29%	30-49%	50+ %
1	Operate controllable devices in path	NA					
2	Accommodation	50 MW or 5% of maximum transfer limit					
3	Coordinated operation of Qualified Controllable Devices	50 MW or 15% of maximum transfer limit					
4	First level curtailment	50 MW or 5% of maximum transfer limit				10%	20%
5	Second level curtailment	50 MW or 5% of maximum transfer limit			10%	15%	25%
6	Accommodation	75 MW or 6% of maximum transfer limit			10%	15%	25%
7	Third level curtailment	75 MW or 6% of maximum transfer limit		10%	15%	20%	30%
8	Accommodation	100 MW or 7% of maximum transfer limit		10%	15%	20%	30%
9	Fourth level curtailment	100 MW or 7% of maximum transfer limit	10%	15%	20%	25%	35%