

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

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

- R1.** 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]*
- R2.** 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

The British Columbia Utilities Commission

1.2. Compliance Monitoring Period and Reset

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

- Reviews conducted monthly
- Spot check audits conducted anytime with 30 days notice given to prepare

***Mandatory BC effective date: April 15, 2013 per BCUC Order R-1-13**

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

- 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

- 3.1. 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.
- 3.2. 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.
- 3.3. 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.
- 3.4. 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.

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

***Mandatory BC effective date: April 15, 2013 per BCUC Order R-1-13**

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

Version	Date	Action	Change Tracking
1	April 16, 2008	Permanent Replacement Standard for IRO-STD-006-0	
1	February 10, 2009	Adopted by NERC Board of Trustees	
1	March 17, 2011	Order issued by FERC approving IRO-006-WECC-1 (FERC approval is effective on May 24, 2011)	
1	May 2, 2012	Updated the requirements to R1. and R2. instead of R.1. and R1.2.	

***Mandatory BC effective date: April 15, 2013 per BCUC Order R-1-13**

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

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 /5% 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%

*Mandatory BC effective date: April 15, 2013 per BCUC Order R-1-13