A. Introduction

1. Title: Certification of Protective Relay Applications and Settings

2. Number: PRC-STD-001-1

3. Purpose: Regional Reliability Standard to certify all protective relay applications for

the Bulk Power Transmission Paths¹ of the Western Interconnection.

4. Applicability

4.1. This criterion applies to each Transmission Operator or Transmission Owner (as specified in Section B) of a transmission path in the Attachment A – WECC Table 2 (Source: Participants Subject to Criterion)

5. Effective Date: This Western Electricity Coordinating Council Regional Reliability Standard will be effective when approved by the Federal Energy Regulatory Commission under Section 215 of the Federal Power Act. This Regional Reliability Standard shall be in effect for one year from the date of Commission approval or until a North American Standard or a revised Western Electricity Coordinating Council Regional Reliability Standard goes into place, whichever occurs first. At no time shall this regional Standard be enforced in addition to a similar North American Standard.

B. Requirements

WR1.

Each Transmission Operator or Transmission Owner identified in Section 4.1 must submit documentation that an officer of the organization certifies that:

- a. All protective relay applications are appropriate for the Bulk Power Transmission Paths ("BPTP") identified in Attachment A Table 2 of this Standard pursuant to applicable WECC Standards and NERC Standards;
- b. The BPTP protective relay settings and logic are appropriate pursuant to applicable WECC Standards and NERC Standards;
- c. Since the last certification or for the last three years all network changes in the path, at the terminals of the path, or in nearby facilities that affect operation of the path have been considered in the protective relay application and settings;
- d. All relay operations since the last certification or during the last three-year period have been analyzed for correctness and appropriate corrective action taken pursuant to applicable WECC Standards and NERC Standards;
- e. Up-to-date relay information has been provided to the on-shift operating personnel and the appropriate Reliability Coordinator.

Note: If a path operator cannot submit certification on behalf of the multiple owners of a path for Protective Relay Application and Settings because the authority for certification resides with one or more path owners, then the path owner(s) shall submit the certification. The path operator

WECC	Table 2	

shall notify the path owner(s) and WECC in writing that the path owner(s) is (are) to submit the certification. (Source: WECC Criterion)

C. Measures

WM1. A Transmission Operator or Transmission Owner identified in Section A.4.1 must accurately complete the Protective Relay Application and Settings Certification form. (Source: Compliance Standard)

D. Compliance

1. Compliance Monitoring Process

1.1 Compliance Monitoring Responsibility

Western Electricity Coordinating Council (WECC)

1.2 Compliance Monitoring Period

Yearly

On or before September 15 of each year (or such other date as specified in Form A.7), a Transmission Operator or Transmission Owner identified in Section A.4.1 shall submit to the WECC office the completed Protective Relay Application and Settings Certification form as specified in Form A.7 (available on the WECC web site). (Source: Data Reporting Requirement)

1.3 Data Retention

Data will be retained in electronic form for at least one year. The retention period will be evaluated before expiration of one year to determine if a longer retention period is necessary. If the data is being reviewed to address a question of compliance, the data will be saved beyond the normal retention period until the question is formally resolved. (Source: NERC Language)

1.4. Additional Compliance Information

For purposes of applying the sanctions specified in Section II for violations of this criterion, the "Sanction Measure" is Normal Path Rating and the "Specified Period" is the most recent 12 month period ending August 31. (Source: Sanctions)

2. Levels of Non-Compliance Sanction

Measure: Normal Path Rating

- **2.1. Level 1:** There shall be a Level 1 non-compliance if any of the following conditions exist:
 - 2.1.1 The reporting Transmission Operator or Transmission Owner accurately certified to completing items (a) and (b) and all but one of items (c)-(e) listed above in Section B.
- **2.2. Level 2:** There shall be a Level 2 non-compliance if any of the following conditions exist:
 - 2.2.1 The reporting Transmission Operator or Transmission Owner accurately certified to completing items (a) and (b) and all but two of items (c)-(e) listed above in Section B.

- **2.3. Level 3:** There shall be a Level 3 non-compliance if any of the following conditions exist:
 - 2.3.1 The reporting Transmission Operator or Transmission Owner accurately certified to completing of items (a) and (b) and to all but three of items (c)-(e) listed above in Section B.
- **2.4. Level 4:** There shall be a Level 4 non-compliance if any of the following conditions exist:
 - 2.4.1 The reporting Transmission Operator or Transmission Owner did not certify to completion of either item (a) or (b) or did not certify to the completion of any four of items (c)-(e) listed above in Section B.

E. Regional Differences

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

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Version	Date	Action				Tracking

Sanction Table

Sanctions for non-compliance with respect to each criterion in Section B Requirements shall be assessed pursuant to the following table. All monetary sanctions shall also include sending of Letter (B).

	Number of Occurrences at a Given Level within Specified Period			
Level of Non-	1	2	3	4 or more
Level 1	Letter (A)	Letter (B)	Higher of \$1,000 or \$1 per MW of	Higher of \$2,000 or \$2 per MW of
			Sanction Measure	Sanction Measure
Level 2	Letter (B)	Higher of \$1,000 or \$1 per MW of Sanction Measure	Higher of \$2,000 or \$2 per MW of Sanction Measure	Higher of \$4,000 or \$4 per MW of Sanction Measure
Level 3	Higher of \$1,000 or \$1 per MW of Sanction Measure	Higher of \$2,000 or \$2 per MW of Sanction Measure	Higher of \$4,000 or \$4 per MW of Sanction Measure	Higher of \$6,000 or \$6 per MW of Sanction Measure
Level 4	Higher of \$2,000 or \$2 per MW of Sanction Measure	Higher of \$4,000 or \$4 per MW of Sanction Measure	Higher of \$6,000 or \$6 per MW of Sanction Measure	Higher of \$10,000 or \$10 per MW of Sanction Measure

Letter (A): Letter to Responsible Entity's Chief Executive Officer informing the Responsible Entity of noncompliance with copies to NERC, WECC Member Representative, and WECC Operating Committee Representative2.

Letter (B): Identical to Letter (A), with additional copies to (i) Chairman of the Board of Responsible Entity (if different from Chief Executive Officer), and to (ii) state or provincial regulatory agencies with jurisdiction over Responsible Entity, and, in the case of U.S. entities, FERC, and Department of Energy, if such government entities request such information.

The "Specified Period" and the "Sanction Measure" are as specified in Section D.1.4 for each criterion.

Sanctions shall be assessed for all instances of non-compliance within a Specified Period. For example, if a Responsible Entity had two instances of Level 1 non-compliance and one instance of Level 3 non-compliance for a specific criterion in the first Specified Period, it would be

² Copies of Letter A and Letter B will be sent to WECC Member Representative and WECC Operating Committee Representative when the Generator Operator is a WECC member.

assessed the sanction from Column 2 of the Level 1 row, and the sanction from Column 1 of the Level 3 row.

If the Responsible Entity fails to comply with a given criterion for two or more consecutive Specified Periods, the sanctions assessed at each level of noncompliance for the most recent Specified Period shall be the sanction specified in the column immediately to the right of the indicated sanction. For example, if a Responsible Entity fails to comply with a given criterion for two consecutive Specified Periods, and in the second Specified Period the Participant has one instance of Level 1 non-compliance and two instances of Level 3 non-compliance, it would be assessed the sanction from Column 2 of the Level 1 row, and the sanction from Column 3 of the Level 3 row. If the sanction assessed at the highest level is the sanction in Column 4, no such modification of the specified sanction shall occur.

ATTACHMENT A Table 2 Existing WECC Transfer Paths (BPTP) (Revised February 1, 2006)

	PATH NAME*	Path Number	Operating Agent
1.	Alberta – British Columbia	1	BCTC/AESO
2.	Northwest – British Columbia	3	BCTC/BPA
3.	West of Cascades – North	4	BPA
4.	West of Cascades – South	5	BPA
5.	West of Hatwai	6	AVA/BPA
6.	Montana to Northwest	8	NWMT
7.	Idaho to Northwest	14	IPC
8.	South of Los Banos or Midway- Los Banos	15	CISO
9.	Idaho – Sierra	16	SPP
10.	Borah West	17	IPC
11.	Idaho – Montana	18	NWMT
12.	Bridger West	19	PAC
13.	C	20	PAC
14.		22	APS
15.	PG&E – SPP	24	CISO
	Northern – Southern California	26	CISO
17.		27	LADWP
18.		30	WAPA
19.		31	WAPA
20.		32	SPP/LADWP
	Intermountain – Gonder 230 kV		~
21.		34	PAC
22.		35	NEVP
23.		36	WAPA
	TOT 5	39	WAPA
25.		45	CISO/CFE
	West of Colorado River (WOR)	46	CISO
27.	, ,	47	EPE
	Northern New Mexico (NM2)	48	PNM
	East of the Colorado River (EOR)	49	APS
30.	` '	50	APS
31.		51	APS
32.	3	55	IPC
33.		61	CISO/LDWP
34.		65	BPA/LADWP
35.		66	BPA/CISO
36.		73	BPA
37.		76	SPP
38.		80	NWMT
39.			CISO
	COI/PDCI – North of John Day cutplane**		BPA
	r an avalanation of terms, noth numbers, and definition for	1 1 C WEGG D 1 D	

[•] For an explanation of terms, path numbers, and definition for the paths refer to WECC's Path Rating Catalog. ** The SCIT and COI/PDCI-North of John Day Cutplane are paths that are operated in accordance with nomograms identified in WECC's Path Rating Catalog.

DEFINITIONS

Unless the context requires otherwise, all capitalized terms shall have the meanings assigned in the Standard and as set out below:

Disturbance means (i) any perturbation to the electric system, or (ii) the unexpected change in ACE that is caused by the sudden loss of generation or interruption of load.

Extraordinary Contingency shall have the meaning set out in Excuse of Performance, section B.4.c.

Normal Path Rating is the maximum path rating in MW that has been demonstrated to WECC through study results or actual operation, whichever is greater. For a path with transfer capability limits that vary seasonally, it is the maximum of all the seasonal values.

WECC Table 2 means the table maintained by the WECC identifying those transfer paths monitored by the WECC regional Reliability coordinators. As of the date set out therein, the transmission paths identified in Table 2 are as listed in Attachment A of this Standard.

EXCUSE OF PERFORMANCE

A. Excused Non-Compliance

Non-compliance with any of the reliability criteria contained in this Standard shall be excused and no sanction applied if such non-compliance results directly from one or more of the actions or events listed below.

B. Specific Excuses

1. Governmental Order

The Reliability Entity's compliance with or action under any applicable law or regulation or other legal obligation related thereto or any curtailment, order, regulation or restriction imposed by any governmental authority (other than the Reliability Entity, if the Reliability Entity is a municipal corporation or a federal, state, or provincial governmental entity or subdivision thereof).

2. Order of Reliability Coordinator

The Reliability Entity's compliance or reasonable effort to comply with any instruction, directive, order or suggested action ("Security Order") by the WECC Reliability Coordinator for the WECC subregion within which the Reliability Entity is operating, provided that the need for such Security Order was not due to the Reliability Entity's non-compliance with (a) the WECC Reliability Criteria for Transmission System Planning, (b) the WECC Power Supply Design Criteria, (c) the WECC Minimum Operating Reliability Criteria, or (d) any other WECC reliability criterion, policy or procedure then in effect (collectively, "WECC Reliability Standards"), and provided further that the Reliability Entity in complying or attempting to comply with such Security Order has taken all reasonable measures to minimize Reliability Entity's noncompliance with the reliability criteria.

3. Protection of Facilities

Any action taken or not taken by the Reliability Entity which, in the reasonable judgment of the Reliability Entity, was necessary to protect the operation, performance, integrity, reliability or stability of the Reliability Entity's computer system, electric system (including transmission and generating facilities), or any electric system with which the Reliability Entity's electric system is interconnected, whether such action occurs automatically or manually; provided that the need for such action or inaction was not due to Reliability Entity's non-compliance with any WECC Reliability Standard and provided further that Reliability Entity could not have avoided the need for such action or inaction through reasonable efforts taken in a timely manner. Reasonable efforts shall include shedding load, disconnecting facilities, altering generation patterns or schedules on the transmission system, or purchasing energy or capacity, except to the extent that the Reliability Entity demonstrates to the WECC Staff and/or the RCC that in the particular circumstances such action would have been unreasonable.

4. Extraordinary Contingency

a. Any Extraordinary Contingency (as defined in subsection c); provided that this provision shall apply only to the extent and for the duration that the Extraordinary Contingency actually and reasonably prevented the Reliability Entity from complying with any applicable reliability criteria; and provided further that Reliability

Entity took all reasonable efforts in a timely manner to mitigate the effects of the Extraordinary Contingency and to resume full compliance with all applicable reliability criteria contained in this Standard. Reasonable efforts shall include shedding load, disconnecting facilities, altering generation patterns or schedules on the transmission system, or purchasing energy or capacity, except to the extent that the Reliability Entity demonstrates to the WECC Staff and/or the RCC that in the particular circumstances such action would have been unreasonable. Reasonable efforts shall not include the settlement of any strike, lockout or labor dispute.

- b. Any Reliability Entity whose compliance is prevented by an Extraordinary Contingency shall immediately notify the WECC of such contingency and shall report daily or at such other interval prescribed by the WECC the efforts being undertaken to mitigate the effects of such contingency and to bring the Reliability Entity back into full compliance.
- c. An Extraordinary Contingency means any act of God, actions by a non-affiliated third party, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, earthquake, explosion, accident to or breakage, failure or malfunction of machinery or equipment, or any other cause beyond the Reliability Entity's reasonable control; provided that prudent industry standards (e.g., maintenance, design, operation) have been employed; and provided further that no act or cause shall be considered an Extraordinary Contingency if such act or cause results in any contingency contemplated in any WECC Reliability Standard (e.g., the "Most Severe Single Contingency" as defined in the WECC Reliability Criteria or any lesser contingency).

5. Participation in Field Testing

Any action taken or not taken by the Reliability Entity in conjunction with the Reliability Entity's involvement in the field testing (as approved by either the WECC Operating Committee or the WECC Planning Coordination Committee) of a new reliability criterion or a revision to an existing reliability criterion where such action or non-action causes the Reliability Entity's non-compliance with the reliability criterion to be replaced or revised by the criterion being field tested; provided that Reliability Entity's non-

compliance is the result of Reliability Entity's reasonable efforts to participate in the field testing.