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 Xcel Energy	Public Service Company of Colorado
PSCo Planning Authority Roles & Responsibilities	Version: 1
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1.0 Purpose:

The purpose of this document is to:

- 1) describe the scope of Public Service Company of Colorado's (PSCo) role as a NERC Planning Authority (PA);
- 2) clarify PSCo's process for providing Load and Resource information to Western Electricity Coordinating Council (WECC); and
- 3) clarify PSCo's responsibilities as a PA under the FAC and TPL standards.

2.0 Applicability and Responsibilities:


Manager, Transmission Asset Management (PSCo) – responsible for reviewing and updating this document annually to ensure PSCo's role and responsibilities as a PA is properly documented and conveyed to the applicable parties.

3.0 Approvers:

Name	Title
Gerry Stellern	Manager, Transmission Asset Management
Teresa Mogensen	Director, Transmission Business Relations/Asset Management

4.0 Version History:

Date	Version Number	Supercedes	Change
10/26/09	1.0	n/a	Initial document

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5.0 Discussion:

PSCo operates a Balancing Authority (BAs) and is registered as a Planning Authority (PAs)¹ under the NERC functional model. Both Balancing Authorities and Planning Authorities have responsibilities under the NERC Reliability Standards. In addition, the WECC Load and Resource Data Collection Instruction Manual (L&R Manual) imposes certain reporting responsibilities on PSCo as a BA.² As further described herein, the scope of PSCo's role as PA is not coincident with the scope of its duties as BA. This document explains the scope of PSCo's roles as PA and BA and the responsibilities assumed by PSCo in conjunction with these roles.

Scope of Role as Planning Authority:

A number of NERC reliability standards impose obligations on Planning Authorities (PAs). The FERC approved NERC standards applicable to PAs as of July 1, 2009 are listed in Attachment 1).

As a NERC-registered PA, PSCo plans for the needs of its native load pursuant to various NERC standards. Pursuant to NERC standards, PSCo also acts as PA for its wholesale full requirements customers³, and partial requirements customers up to the amount of PSCo's partial requirements obligation. (The list of customers is maintained by the Commercial Operations Origination department)


PSCo's current full requirements customers are:

- Public Service Company of Colorado native load obligation
- City of Burlington
- Town of Center

¹ In the Version 3 of the NERC Functional Model, the term "Planning Authority" was changed to "Planning Coordinator." However, most of the NERC Reliability Standards applicable to PAs/PCs were adopted prior to this change in terminology in the functional model. Therefore, most standards still refer to the PA. The term Planning Authority as used herein is interchangeable with the term Planning Coordinator.

² Requirements of the WECC L&R Manual are not enforceable under Section 215 of the Federal Power Act.

³ Each of PSCo's full requirements customers take an allocation of preference hydro power from Western Area Power Administration before PSCo provides the balance of their power and energy needs as "full requirements."

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- Grand Valley Rural Power Lines, Inc.
- Holy Cross Electric Association, Inc.
- Intermountain Rural Electric Association
- Yampa Valley Electric Association, Inc.


Other entities within the PSCo BA are either registered as a PA or do not have agreements with PSCo to obtain PA services; therefore, PSCo is not the PA for these entities for purposes of NERC reliability standards. Attachment 2 includes a matrix that identifies the entities within the PSCo BA and their relationship to PSCo.

WECC Load and Resource Data Collection

With respect to NERC standards MOD-017-0 through MOD-021-0, PSCo is only responsible for reporting actual and forecasted demands for the entities for which it serves as PA. The information provided pursuant to these standards is used for WECC publications and power supply assessments as well as to collect data for the EIA-411 report. This data in the EIA-411 is compiled at the regional level and then at NERC prior to filing with FERC.

WECC has developed a Load and Resources Data Collection Manual that delineates the process used by WECC to collect EIA-411 data at the regional level. The WECC process is not entirely consistent with the approach outlined in the MOD standards. In particular, the MOD standards require accumulation of data by PAs while the WECC L&R Manual requires that data be collected by BAs. PSCo has developed a process that reconciles the requirements of the MOD standards with the requirements of the WECC L&R Manual.

In meeting its obligations under the WECC L&R Manual, PSCo develops actual and forecast data for itself and all the entities for which it serves as PA. Data for entities located within the PSCo BA but for which PSCo does not serve as PA is requested from the individual entities, compiled with other data collected by PSCo, and reported on to WECC. PSCo does not validate the data provided by entities for which it does not

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serve as PA, but rather serves merely as a conduit to provide such information to WECC.

By facilitating the data collection process laid out in WECC’s L&R Manual, PSCo does not assume any responsibility under the NERC standards or the L&R manual for acquiring data from entities for which PSCo does not serve as PA or for validating any data that is provided by such entities.

Facility Rating (FAC) and Transmission Planning (TPL) Standards

PSCo conducts studies for entities for which it serves as PA using the WECC power flow model. This model includes loads and resources of other entities, including those within the PSCo BA not owned by PSCo. PSCo Transmission Planning’s responsibility with respect to the NERC standards extends only to PSCo assets, full requirement customers, partial requirement obligations, and transmission customers under the Open Access Transmission Tariff (OATT). PSCo also performs studies and data collection as an ‘area coordinator’ as outlined in the WECC Data Preparation Procedural Manual for Power Flow and Stability Studies. Coordination on issues for elements within the PSCo BA that are owned by other entities for which PSCo is not a PA occurs informally with that entity and through the Colorado Coordinated Planning Group (CCPG) whose mission states in part: “The CCPG provides the technical forum required to complete reliability assessments, develop joint business opportunities, and accomplish coordinated planning, under the single-system planning concept in the Rocky Mountain Region of the Western Electricity Coordinating Council.”

Nuclear Plant Interface Coordination (NUC) Standards

The NUC standard is not applicable to PSCo since there are no nuclear plant Generator Operators within the PSCo Planning Authority Area.

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Attachment 1

List of FERC Approved Reliability Standards Applicable to the Planning Authority as of July 1, 2009

FAC-002-0	Coordination of Plans For New Generation, Transmission, and End-User
FAC-010-2	System Operating Limits Methodology for the Planning Horizon
FAC-013-1	Establish and Communicate Transfer Capabilities
FAC-014-2	Establish and Communicate System Operating Limits
MOD-016-1.1	Documentation of Data Reporting Requirements for Actual and Forecast Demands, Net Energy for Load, and Controllable Demand-Side Management
MOD-017-0.1	Aggregated Actual and Forecast Demands and Net Energy for Load
MOD-018-0	Treatment of Nonmember Demand Data and How Uncertainties are Addressed in the Forecasts of Demand and Net Energy for Load
MOD-019-0.1	Reporting of Interruptible Demands and Direct Control Load Management
NUC-001-1	Nuclear Plant Interface Coordination
TPL-001-0.1	System Performance Under Normal (No Contingency) Conditions (Category A)
TPL-002-0	System Performance Following Loss of a Single Bulk Electric System Element (Category B)
TPL-003-0	System Performance Following Loss of Two or More Bulk Electric System Elements (Category C)
TPL-004-0	System Performance Following Extreme Events Resulting in the Loss of Two or More Bulk Electric System Elements (Category D)

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Attachment 2 PSCO Balancing Authority Entity Relationship Matrix

	PSCo is the PA for (in addition to PSCo load/assets):	PSCo Wholesale Customer (Partial or Full)	PSCo Report for WECC L&R	WACM reports for WECC L&R	Registered as PA	Registered as TP & RP
PRPA			X (not listed in the 2009 LaR but PSCO included in PRPA in data reported *)		X	X
BHCE (Aquila)		x (Partial)	X			X
WACM				X	X	X
CSU				X	X	X
TSGT				X		X
Aspen				X		
ARPA			X			
Lamar			X			
Holy Cross	X	x (Full)	X			
IREA	X	x (Full)	X			
Yampa	X	x (Full)	X			
Center	X	x (Full)	X			
Grand Valley	X	x (Full)	X			
Burlington	X	x (Full)	X			
DOE-Rocky Flats		decommissioned *	X			
Glenwood Springs		served by MEAN *	X			
Julesburg		no longer served by PSCo *	X			

* indicates items that have been requested by PSCo as revisions to the WECC L&R Manual