

ATC Methodology

Flowgates, Version 2

Posted: April 13, 2009

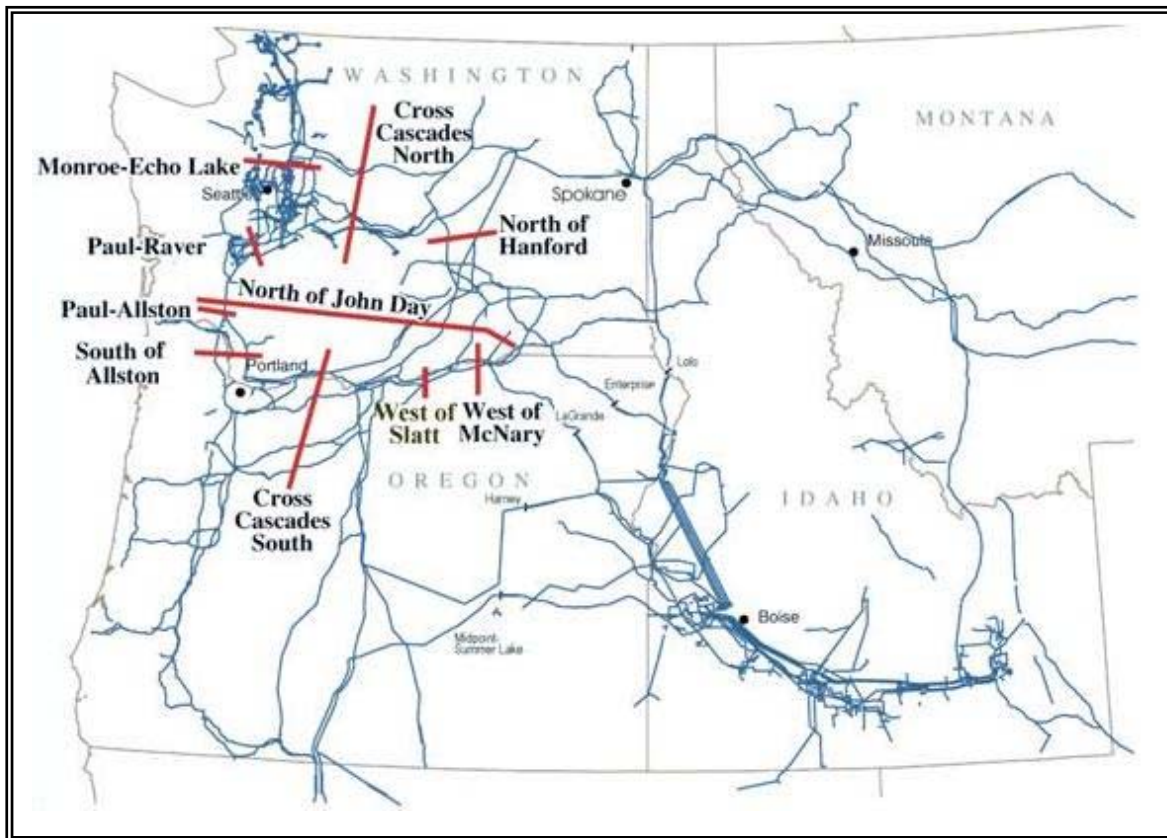
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This document lists the Network Flowgates included in the ATC calculations that is posted on the ATC Methodology page of Transmission Services' web site. Transmission Services will continue to identify and evaluate other Network Flowgates and post them in accordance with the ATC Methodology.

Transmission Services reserves the right to modify the Network Flowgate designations at anytime.

Unless otherwise defined herein, capitalized terms are defined in the primary ATC Methodology document, Transmission Services' OATT, or its 2008 Transmission & Ancillary Service Rate Schedules or its successor.

1. Network Flowgate Map



2. Network Flowgate Descriptions

Pursuant to the ATC Methodology, this document lists the Network Flowgates Transmission Services has identified for posting.

- a. Monroe-Echo Lake Flowgate consists of the Monroe-Echo Lake 500kV Line (north-to-south).
- b. Raver-Paul Flowgate consists of the Raver-Paul 500 kV Line (north-to-south).
- c. Paul-Allston Flowgate consists of the following transmission lines (north-to-south):
 - ◆ Napavine-Allston #1 500kV; and
 - ◆ Paul-Allston #2 500kV.
- d. South of Allston Flowgate consists of the following transmission lines facilities (north to south):
 - ◆ BPA -Owned Transmission Lines:
 - Keeler-Allston 500kV;
 - Lexington-Ross 230kV;
 - St. Helens-Allston 115kV;
 - ◆ Portland General Electric -Owned Transmission Lines:
 - Trojan-St. Marys 230kV;
 - Trojan-River Gate 230kV;
 - ◆ PacifiCorp-Owned Transmission Lines:
 - Merwin-St. Johns 115kV;
 - Astoria-Seaside 115kV; and
 - Lewis & Clark-Astoria Tap 115kV.
- e. North of Hanford Flowgate consists of the following transmission lines (north-to-south):
 - ◆ Vantage-Hanford 500kV;
 - ◆ Grand Coulee-Hanford 500kV; and
 - ◆ Shultz-Wautoma 500kV (effective upon energization in 2006)
- f. North of John Day Flowgate consists of the following transmission lines (north-to-south):
 - ◆ Ashe-Marion 500kV;
 - ◆ Ashe-Slatt 500kV;
 - ◆ Hanford-Ostrander 500kV (to become Wautoma-Ostrander 500kV after Shultz-Wautoma 500kV energization);
 - ◆ Hanford-John Day 500kV (to become Wautoma-John Day 500kV after Shultz-Wautoma 500kV energization);
 - ◆ Raver-Paul 500kV; and
 - ◆ Lower Monumental-McNary 500kV.
- g. West of McNary Flowgate consists of the following transmission lines (east-to-west):
 - ◆ Coyote Springs-Slatt 500kV;
 - ◆ McNary-Ross 345kV;
 - ◆ McNary-Horse Heaven 230kV; and
 - ◆ McNary-Santiam 230kV.

- h. Cross Cascades North Flowgate consists of the following transmission lines (east-to-west):
- ◆ Schultz-Raver #1, 3, & 4 500kV;
 - ◆ Schultz-Echo Lake #1 500kV;
 - ◆ Chief Joseph-Monroe 500kV;
 - ◆ Chief Joseph-Snohomish #1 & 2 345kV;
 - ◆ Rocky Reach-Maple Valley 345kV;
 - ◆ Grand Coulee-Olympia 287kV; and
 - ◆ Columbia-Covington 230kV.
- i. Cross Cascades South Flowgate consists of the following transmission lines (east-to-west):
- ◆ Big-Eddy-Ostrander 500kV;
 - ◆ Ashe-Marion 500kV;
 - ◆ Buckley-Marion 500kV;
 - ◆ Hanford-Ostrander 500kV;
 - ◆ John Day-Marion 500kV;
 - ◆ McNary-Ross 345kV;
 - ◆ Big Eddy-Chemawa 230kV;
 - ◆ Big Eddy-McLaughlin 230kV;
 - ◆ Midway-North Bonneville 230kV;
 - ◆ McNary-Santiam 230kV; and
 - ◆ Parkdale-Troutdale 230kV.
- j. West of Slatt Flowgate consists of the following transmission lines (east-to-west):
- ◆ Slatt-Buckley 500kV; and
 - ◆ Slatt-John Day 500kV

Revision History

10/31/07, V2	Modifications to implement the conversion from Allston-Keeler to South of Allston.
06/07/05	Removed Appendix 1 from the base ATC Methodology document and posted as a separate document on the Tools, Assumptions, and Data Input page of TBL's web site.
02/11/04	Flowgate map updated; West of Slatt Flowgate added; North of Hanford and Cross Cascades North Flowgates updated to reflect new infrastructure.
11/12/03	This document was included as Appendix 1 of the ATC Methodology.