

NTTG 2018-2019 Public Policy Consideration Study Plan

1 Objective

2 On May 9, 2018, the NTTG Planning Committee approved studying a Public Policy Consideration (PPC)
3 request submitted by Deseret Power, Utah Associate of Energy Users, Utah Associated Municipal Power
4 Systems, Utah Office of Consumer Services, Utah Municipal Power Agency, and Wyoming Industrial
5 Energy Consumers.

6 These Joint Submitters requested NTTG study the retirement of additional coal fired generation not
7 being considered in the 2018-2028 NTTG 10-year planning window. These coal retirements have been
8 identified in NTTG members' Integrated Resource Plans (IRPs). NTTG will remove this additional coal
9 generation and perform a power flow transmission reliability assessment utilizing base cases that will be
10 developed as part of the 2018-2019 planning cycle.

11 Base Case Building Process and Assumptions

12 As part of the NTTG 2018-2019 cycle, NTTG will undertake the development and study of several power
13 flow base cases. This PPC study will utilize the base cases that are developed to be studied in the 2018-
14 2019 cycle representing stressed conditions on the system such as:

- 15 1) High Wyoming Wind
- 16 2) High Southern Idaho Export
- 17 3) High Southern Idaho Import

18 For each of the relevant cases, the following coal generation should be modeled as off-line:

- 19 • Boardman
- 20 • Jim Bridger 1
- 21 • Cholla 4
- 22 • Colstrip 1 & 2
- 23 • Dave Johnston 1, 2, 3 & 4
- 24 • Naughton 1 & 2
- 25 • Naughton 3
- 26 • Valmy 1 & 2

27 *Note:* The units underlined above will be modeled as off-line in all 2018-2019 NTTG studies.

28 Make-up power for the units taken off-line should attempt to be consistent with the planned resource
29 additions of the respective company's most recent IRPs and consider individual company's available
30 transmission capacity.

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31 For Idaho Power, make-up power for Jim Bridger 1 should be dispatched from either (1) internal
32 Idaho Power resources, or (2) the Pacific Northwest across the Boardman to Hemingway 500 kV
33 transmission line.

34 PacifiCorp's make-up power for Jim Bridger 1, and Naughton 1 & 2, will be developed using
35 available 2019 IRP information in consultation with the PPC submitters and Planning Committee.

36 **Study Process**

37 The NTTG TWG will ultimately create and run powerflow contingency analysis on the relevant cases,
38 such as:

- 39 1) High Wyoming Wind _ PPC
- 40 2) High Southern Idaho Export _ PPC
- 41 3) High Southern Idaho Import _ PPC

42 Given all previous assumptions, the NTTG Technical Working Group, through contingency analysis on the
43 cases, will determine if any of the following Energy Gateway segments are superfluous to the specific
44 power flow case:

- 45 • Anticline – Populus 500 kV
- 46 • Aeolus – Clover 500 kV
- 47 • Populus – Cedar Hill 500 kV
- 48 • Cedar Hill – Hemingway 500 kV
- 49 • Populus – Borah 500 kV
- 50 • Borah – Midpoint 500 kV & Borah 500/345 kV Transformer (uprating Kinport-Midpoint 345 kV)
- 51 • Midpoint – Hemingway #2 500 kV
- 52 • Midpoint – Cedar Hill 500 kV

53 *Note:* It is unknown which facilities will be included into the Draft Regional Transmission Plan. Those
54 lines not included in the Draft Regional Transmission Plan will be removed from this PPC analysis.

55 **Study Schedule**

56 This analysis is scheduled to be completed in Quarter 6 of the 2018-2019 Biennial Planning Cycle.

57 **Deliverable**

58 A final PPC Study Report will document the results and will be incorporated, as an attachment, into the
59 final NTTG 2018-2019 Biennial Transmission Plan. The results of this additional analysis are



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60 informational only and may inform the 2018-2019 Regional Transmission Plan, but will not result in the
61 inclusion of additional projects in the Regional Transmission Plan.

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