



Northern Tier Transmission Group

Adopted October 8, 2008

2008-09 Biennial Transmission Plan

Draft Plan Study Methodology and Assumptions

At the Planning Committee and Technical Work Group meeting on October 1st, a number of issues were discussed and resolved relating to the draft biennial transmission plan. Some were modeling choices made by the engineers participating in the study work, while others involved the interpretation and enforcement of previously-published documents and decisions.

This document provides an addendum to the Work Plan and a codification of those decisions.

1) Scope of draft studies

- a) Loads & resources: power flow studies require balanced loads and resources and defined area interchanges. The transmission providers participating in the study work will define the loads and resources to be modeled and studied within their control areas (balancing authorities).
- b) Transmission projects: the Q1 data request required specification of loads and resources to be associated with the projects. Those projects which did not provide such loads and resources will be omitted from the draft plan studies.
- c) Area interchanges: engineers performing the analyses will determine interchange specifications between WECC areas within and at the periphery of the Northern Tier footprint.

2) Study methodology

- a) Study work will be based on the previously chosen WECC Base Cases (2018HS1A and 2010LA1), with modifications to accommodate Northern Tier loads, resources and transmission projects encoded in 'mod-decks' (.epc files for GE PSLF and .idv files for PTI PSS/E models).
- b) Mod-decks will not be developed at this time for loads, resources and transmission projects excluded from the scope of the draft study.
- c) Participating engineers may modify the loads, resources and projects specified in their Q1 submittals.
- d) Each member of the Technical Work Group that operates a balancing authority is responsible for the development of load, resource and transmission data for their area(s).
- e) Each member of the Technical Work Group that is the lead on a Task Group is responsible for coordinating the delivery, formatting and conversion of data addressing their group's focus (Loads – Jeff Newby, Resources – Jamie Austin, Transmission [GE] – Orlando Ciniglio, Transmission [PTI] – Ryan Munson).
- f) Initial, or base, cases will be created for heavy summer and light autumn that includes all of the transmission projects that will be studied in the draft plan analysis, and all of the loads and resources specified by balancing authority participants.

g) The Technical Work Group will jointly define and allocate responsibility for the specific studies that will be performed in developing the draft biennial plan.

3) Study timeline

a) Mod-decks will be submitted to the Technical Work Group, developed to allow their integration in the WECC Base Cases, converted as needed to make them available to both GE and PTI modelers, and Northern Tier base cases solved by November 1, 2008.

i) Initial mod-decks were due on September 24.

ii) Initial and converted mod-decks should be available by October 10 (not specified at the October 1 meeting).

iii) The mod-decks will be combined onto the two WECC Base Cases to produce solved base cases by November 1.

b) The Technical Work Group will agree to the set of studies to be performed, who will perform them and when they will be completed by November 1.

Notes as provided in the Q1 Data Request Form:

- 1) Loads or resources outside the NTTG footprint expecting to use NTTG member point to point transmission service should be included by showing both the load and resource locations on the map and identify their dependency in the above tables. Specific questions should be directed to the Transmission Provider(s) and their OATT Attachment K requirements. If this information has already been submitted to a Transmission Provider, or if a generation interconnection or transmission service request has been made, please note in fields.
- 2) Transmission Providers who are members of the NTTG Planning Committee will provide and validate all data for their control area including loads, resources, and anticipated point to point transmission requirements through modifications of WECC power flow case information, as identified in the selected base cases to be used in the NTTG study plan.