

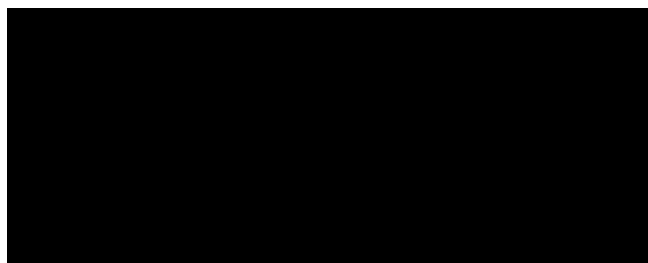
BC Hydro Modeling Data Requirements and Reporting Procedures

MOD-032-1 Data for Power System Modeling and Analysis

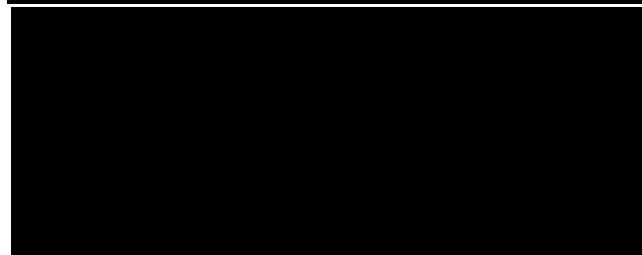
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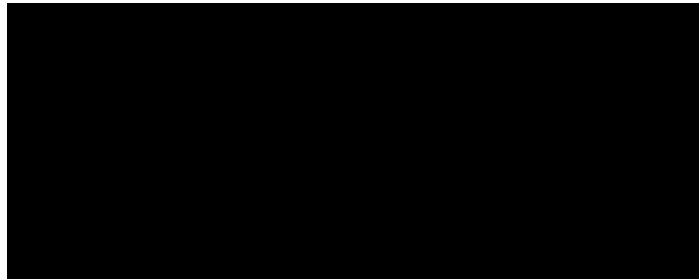
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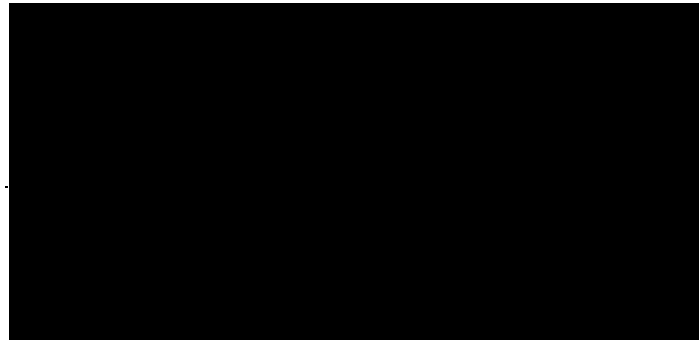
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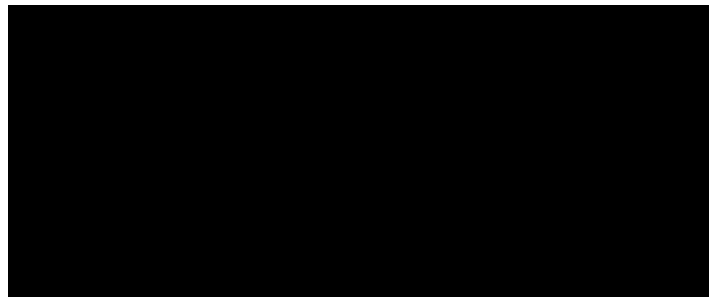
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1 Introduction

1.1 Purpose

The purpose of this document is to establish a jointly developed and consistent process for defining and communicating BC Hydro's steady-state, dynamics, and short circuit modeling data requirements and reporting procedures. This process supports the development and maintenance of the base case models used within BC Hydro's Transmission Planning activities.

Specifically, this document:

- Provides guidance on modeling the data listed in Attachment 1 of NERC MOD-032-1 and specifies the requirements for data format, level of detail, case types or scenarios, and submission schedules consistent with Interconnection-wide case development practices;
- Demonstrates how BC Hydro's Resource Planners, Transmission Owners, Transmission Planners, Transmission Service Providers, and Load Serving Entities apply this process to meet MOD-032-1 and WECC Data Preparation Manual requirements;
- Provides specifications for distribution or posting of the data requirements and reporting procedures so they are available to those entities responsible for providing the data
- Provides direction to Balancing Authorities, Generator Owners, Load Serving Entities, Resource Planners, Transmission Owners, and Transmission Service Providers for supplying modeling data to their respective Planning Coordinators and Transmission Planners in accordance with MOD-032-1, Requirement 2;
- Establishes consistency across BC Hydro's base cases to ensure that system models used in planning studies are aligned with applicable NERC reliability standards (including and not limited to TPL-001, FAC-002, TPL-007, TPL-008, MOD-031, MOD-033, and others as applicable), and appropriately represent steady-state, dynamic system behaviour.

BC Hydro will request data for all modeled equipment, - whether BES or non-BES -, as well as any additional information necessary to support WECC base case development. Data shall be provided in accordance with MOD-032-1 Attachment 1 and shall reflect the current system and anticipated system over the full planning horizon.

1.2 Transmission Planning Base Cases

BC Hydro's System Modeling and Planning Support (SM&PS) Team within Transmission Asset Planning (TAP) Department develops the transmission system model in its in-house infrastructure, which is a combination of software and data, and this tool represents a unified centralized model set for the transmission system model which is used to create the following base cases to support a variety of Transmission Planning activities:

- Annual Transmission Planning Base Cases
- WECC Base Cases
- Load Interconnection Studies Base Cases
- Generator Interconnection Studies Base Cases
- Transmission Service Request for Point-to-Point Transfer Studies Base Cases
- BC Hydro Network Integrated Transmission Service (NITS) and legacy firm transmission service agreements
- Other relevant studies requiring BC Hydro power flow base cases

The modeling data within the PSS infrastructure acts as a centralized source of modeling data for the transmission system planning model, and the software within the PSS allows for the creation and further customization of base cases, which helps to maintain consistency of the various base cases developed as the starting point (centralized model set). The customization of the various base cases is performed based on the objective of the study and the study assumptions. In the case of WECC data submissions, they are based on the requirements of each data request case description as provided by WECC.

1.3 Effective Date

This document is effective on October 1, 2026, and will remain effective until superseded or retired.

2 Base Case Development Process

2.1 Responsibilities Business Groups Fulfilling MRS Functions

A list of key business groups and stakeholders who will fulfill MRS Functions for MOD-032-1 in BC Hydro's service territory are outlined as follows:

Business groups	Roles and Responsibilities
Transmission Asset Planning (TAP)	Transmission Asset Planning (TAP) fulfills both the Transmission Planner (TP) and Planning Coordinator (PC) roles for BC Hydro under this Standard, covering the BC Hydro PC service area, which includes BC Hydro owned Bulk Electric System (BES) facilities and BES facilities of third-party Generator Owners and Transmission Owners assigned to BC Hydro. In accordance with BCUC Order R-23-24 (November 6, 2024), BC Hydro's PC service area is intended to include the Catalyst Power Powell River TP area; however, until a PC coverage agreement is established, the PC and TP service areas remain the same. In fulfilling the TP and PC functions, TAP is responsible for collecting steady-state and dynamic planning model information, maintaining accurate and up-to-date system models, and submitting the required models to WECC in accordance with applicable requirements.
Energy Planning (EP)	BC Hydro Energy Planning business group fulfills the Load Serving Entity (LSE) and Resource Planner (RP) Function for the BC Hydro PC and TP service area. This includes the load forecasting of system and Transmission Voltage Customers within the BC Hydro service area as well as providing the future (network) resource information.
Transmission & Distribution System Operations (TDSO)	TDSO fulfills BC Hydro's Transmission Service Provider (TSP) Functions in BC Hydro PC and TP service area.

Transmission Sustainment Planning	As Transmission Owner for BC Hydro transmission line equipment, provides as-built model information for all transmission lines in BC Hydro.
Substations Growth and Sustainment	As Transmission Owner for BC Hydro substation equipment, provides as-built model information for all substations in BC Hydro.
P&C Planning	P&C Planning maintains the BC Hydro short circuit model. In addition, P&C Planning provides protection and control information for BC Hydro Transmission and Generation Facilities.
Distribution Planning	Distribution Planning also fulfils LSE Function and provides the distribution substation load forecast.
Market Policy & Operation	As Transmission Service Provider, Market Policy and Operations within TDSO provide the firm transmission service and interchange information.
Customer Interconnection and Policy	Customer Interconnection and Policy work with third-party Transmission Voltage Customers, Distribution Providers, Transmission Owners and Generator Owners and acts as a liaison with BC Hydro TP & BC and third-party entities for data and model information exchange.

2.1.1 Transmission Owner (TO) Modeling Information

BC Hydro Transmission Sustainment Planning is the facility owner for the transmission line assets (e.g. overhead lines, cables, line disconnects etc.) while Substations Growth and Sustainment is the facility owner for the transmission station assets (e.g. transformers, circuit breakers, shunt devices). These business groups represent the TO Functions for the BC Hydro.

There are no other third-party registered Transmission Owners in the BC Hydro PC and TP service area.

The TO shall provide the necessary data to model their transmission facilities as shown in the table below and in accordance with MOD-032-1 Attachment 1 and WECC Data Preparation Manual for Interconnection-wide Cases.

Steady-state	Dynamic model parameters	Short Circuit
System topology	FACTS devices, including SVC, STATCOMs	Positive sequence data
Buses	HVDC parameters	Negative sequence data
AC transmission line parameters	Protection relay data	Zero sequence data
HVDC transmission line parameters		Mutual line impedance
Transformers		
Reactive Power Compensation devices		
FACTS system parameters		
Facility ratings as per FAC-008		

2.1.2 Generator Owner (GO) Modeling Information

BC Hydro Generation Station Asset Planning is the facility owner for BC Hydro generation assets (e.g. generators, unit transformers, etc.) and represents the GO Function for the BC Hydro. In addition to BC Hydro owned generating facilities in the BC Hydro PC and TP service area, many Independent Power Producers (IPP) owned by third-party entities are registered as GOs and mapped to BC Hydro TP. All BC Hydro's communications with those IPPs are managed via Interconnections, and Generation System Operations (GSO).

The GO shall provide the necessary data to model their generating facilities as shown in the table below and in accordance with MOD-032-1 Attachment 1 and WECC Data Preparation Manual for Interconnection-wide Cases. These data and/or model information can be part of other relevant MRS including but not limited to MOD-25, MOD-26, MOD-27, PRC-023, PRC-024 and FAC-008.

Steady-state parameters	Dynamic model parameters	Short Circuit parameters
Generator parameters: PQ capability curve, Machine nominal rating, Pmax, Qmax, Qmin	Generator parameters in latest WECC acceptable format	For applicable GSO and transmission/sub-transmission, provide:
Generator step-up (GSU) transformer data	Excitation system	Positive sequence data
Seasonal output capabilities	Turbine-Governor	Negative sequence data
Station service load under normal conditions	Power System Stabilizer	Zero sequence data
Additional reactive power compensations, if any.	Voltage and frequency ride-through capabilities as per PRC-024	
Parameters for transmission or sub-transmission network behind the POI	Other relay models that are required by WECC	
Wind/PV collector systems		
Facility ratings as per FAC-008		

2.1.3 Transmission Voltage Customer (TVC) Customer Modeling Information

BC Hydro Customer Interconnection and Policy business group works with third-party Distribution Providers and major Transmission Voltage Customers, which are classified as Load Serving Entities. The individual transmission voltage customers shall provide the necessary data of their load facilities for steady-state and dynamic system modeling as shown in the table below and in accordance with MOD-032-1 Attachment 1 and WECC Data Preparation Manual for Interconnection-wide Cases.

In addition, BC Hydro Energy Planning provides the TVC load forecasts for BC Hydro's future TVCs.

Steady-state	Dynamic model parameters	Short Circuit
Interconnection scheme or topology	Dynamic model of the load representing the transient characteristics when load includes electric motor larger than 500 HP or include Variable Frequency Drives	Provide the following short-circuit model data for all applicable transmission and sub-transmission facilities (e.g., lines, transformers, and motors): Positive sequence data Negative sequence data Zero sequence data
Entrance transformer data		
Reactive compensation information		

BC Hydro's Planning Coordinator and Transmission Planner may, on a case-by-case basis, request industrial customers to provide detailed dynamic load models in a specified format, depending on the characteristics, size, and operational behavior of the load. These models are required to accurately represent the load's dynamic response to system

disturbances (e.g., voltage and frequency excursions), enabling reliable transient stability, voltage stability, and other system performance studies. The need for such models will be assessed based on the nature of the load and its potential impact on the bulk electric system.

2.1.4 BC Hydro Load Serving Entity (LSE) Modeling Information

The LSE shall provide the necessary load modeling data to develop power system model for BC Hydro consistent with the MOD-032-1 Attachment 1 and WECC Data Preparation Manual for Interconnection-wide Cases.

BC Hydro Energy Planning and Distribution Asset Planning jointly represent the Load Serving Entity Function for the BC Hydro. Energy Planning provides system coincident load forecast and Transmission Voltage Customer load forecasts, while Distribution Asset Planning provides BC Hydro distribution substation load forecasts. BC Hydro has developed internal load forecast specification document that aligns with internal business processes and meets the applicable MRS requirements. The document is provided separately and shall be used for BC Hydro LSE data requirements.

2.2 Schedule

BC Hydro SM&PS team acts as the Area Coordinator for BC in the context of base case data submissions to WECC in order to comply with MOD-032-1 R4 and follows the data request schedule as outlined by the WECC SRS documentation. The WECC data request schedule can be found on the WECC SRS website¹ under “Base Case Compilation Schedules”.

On behalf of the PC and TP to BC Hydro’s planning territory, SM&PS team collects system data as specified in the Section 2.1 and develops power system base cases for system studies including power flow analysis and transient stability simulations. Steady-state, dynamics, and short circuit modeling data are to be provided by the applicable entities to BC Hydro (basecase@bchydro.com) by December 31st each year. BC Hydro may send out data requests as necessary with an expected data submission of 30 days after the initial request. Registered entities are required to submit data as per MOD-032 R1.2.4 at least once every 13 calendar months. For data that has not changed since the last submission, a written confirmation that the data has not changed is sufficient.

¹ <https://www.wecc.org/committees/srs>

2.3 Typical Scenarios

2.3.1 WECC Base Cases

For WECC base cases, each year, WECC will provide to BC Hydro its annual WECC Base Case Compilation Schedule, which can be found on the WECC SRS website¹ under “Base Case Compilation Schedules” which will indicate the scenarios required and general descriptions for the cases required for that year. WECC SRS identifies the base cases to be compiled, and a typical annual base case compilation schedule may cover wide variety of scenarios which may include²:

- Five operating cases;
- Two specialized cases;
- One five-year summer planning case;
- One five-year winter planning case;
- One 10-year summer planning case; and
- One 10-year winter planning case.

2.3.2 Other Studies

The other studies that require power system base cases include:

- Annual TPL assessments,
- Capital planning studies,
- Load, generation, and transmission interconnection system impact studies,
- Network Integrated Transmission Service (NITS) studies

² e.g. for a 2026 Base Case Compilation Schedule (approved in June 2025), the operating cases would be for the 2026-27 winter and 2027 summer, while the 5th year cases would be 2031-32 winter and 2032 summer, and the 10th year cases would be 2036-37 winter and 2037 summer.

- Transmission service request studies
- Other relevant system studies to support regulatory process and long-term development plans.

In such studies, the model shall represent a range of operating conditions to ensure accurate and reliable performance under both typical and adverse situations. The modeling data to develop the following types and scenarios of power flow cases shall be available from the respective entities:

- Normal Operating Conditions

Typical system configurations under expected load, generation, and environmental conditions.

- Peak and off-peak Load Conditions

System behavior at seasonal peak and off-peak demand levels, including seasonal variations. The seasonal variation may include heavy winter, heavy summer, light summer and light winter cases.

- Sensitivity Conditions

The power flow base cases should be suitable for sensitive analysis. These may include high load cases, low load cases, or customized sensitivity scenario cases. Variations in key assumptions or inputs to evaluate impact on system performance and identify risks.

- Seasons

- Winter Peak Load (HW)
- Winter Light Load (LW)
- Summer Peak Load (HS)
- Summer Light Load (LS)

- Timeframe

- Operational studies for current year studies
- Short-term studies for year 1 to 5

- Long-term studies for year 5 to 10
 - Long-term studies for year 10 to year 20
- Cases for Dynamic and Transient Events

The study base cases should also include dynamic system models to facilitate dynamic and transient stability studies and event investigation.

- Cases for short circuit studies

The study base cases for Near-term short circuit studies.

2.4 Data Format

WECC System Review Subcommittee (SRS) creates a Data Preparation Manual (DPM) for Interconnection-wide cases, applicable to the corresponding year's WECC Base Case Compilation Schedule. The modelling requirements in WECC'S DPM will be followed to meet the MOD-032 requirements. The DPM can be found on the [WECC SRS website](#) under "Data Preparation Manual".

Additional data modeling requirements and considerations are included below and in Appendix 5.2

2.4.1 Steady State Data Requirements

BC Hydro Transmission Asset Planning mainly uses the Siemens PSS/E program and Powertech DSA Tools for its planning processes, and the data submitted to SM&PS team can be in standardized ".raw" or ".idv" format. SM&PS team will then model the components accordingly in TAP's in-house infrastructure, which can then be used to create base cases in various formats per the transmission planning need (PSS/E, GE PSLF or Powertech DSA Tools).

BC Hydro transmission system model includes transmission system > 60 kV and also includes step down transformers and buses on the low side of the transformer. Data for new equipment being commissioned and built should be submitted to basecase@bchydro.com as part of BC Hydro's MRS Deliverables Lists Program. This includes and is not limited to transmission lines, transformers, and generators. Data being provided through this program does not necessarily have to be in the standardized ".raw" format, and can be in the form of circuit data drawings or other as-built engineering drawings and test reports and should be submitted to basecase@bchydro.com. The SM&PS team will determine whether the submitted data is sufficient to model the transmission system appropriately in line with WECC's DPM and good practice and will request additional information as necessary.

Data for planned projects in the transmission system should be provided in standardized ".raw" or ".idv" format as aforementioned.

2.4.2 Dynamic Data Requirements

Dynamic models will adhere to requirements included in the section “Dynamic data requirements” of WECC’s DPM. Applicable models should be in compliance with NERC Mandatory Reliability Standards MOD-026-1 and MOD-027-1.

SM&PS team will participate in WECC’s System Review Subcommittee (SRS) and Model Validation Subcommittee (MVS) to maintain awareness of the latest dynamic data requirements by WECC and NERC, and may request responsible parties for more data in order to meet these requirements.

Data for planned projects in the transmission system should be provided in standardized “.dyr” or “.dyd” format, with models being in accordance with WECC’s latest Approved Dynamic Model Library.

2.4.3 Short Circuit Data Requirements

The Short Circuit Model is submitted to WECC by BC Hydro’s P&C Planning upon receipt of the annual request from WECC’s Short Circuit Modeling Subcommittee (SCMS). This short circuit model can be submitted in either ASPEN or CAPE format as shown in the *2025 SCMS Short Circuit Data Request Model* shown in Appendix 0 as an example. BC Hydro’s P&C Planning will update the ASPEN model annually noting significant changes in the system.

2.5 Distribution or Posting of the Data Requirements and Reporting Procedures

A copy of this document will be posted in the BCCPG website:

<https://www.bccpg.com/home.html>

- Entities responsible for providing data should send it to basecase@bchydro.com.
- For modeling data submission, the Subject Line of the email should include the following text: *"MOD-032-1: Modeling data submission under R2"*

3 Periodic Review of the Procedure

This document will be periodically updated to address any of the followings:

1. Changes to the requirements when the standard is updated.
2. Changes to the BC Hydro Planning Coordinator's roles and responsibilities.
3. Changes to the BC Hydro business need that requires revision of this document.
4. Any changes identified in the document during the course of PC Function implementation.

4 Revision History

Revision	Date	Author(s)	Reviewer(s)/ Stakeholder(s)	Description
0	2026 Sep			Initial release

5 Appendix

5.1 MOD-032-1 - Attachment 1

ATTACHMENT D
to Order R-6-25

MOD-032-01 – ATTACHMENT 1:

Data Reporting Requirements

The table, below, indicates the information that is required to effectively model the interconnected transmission system for the Near-Term Transmission Planning Horizon and Long-Term Transmission Planning Horizon. Data must be shareable on an interconnection-wide basis to support use in the Interconnection-wide cases. A Planning Coordinator may specify additional information that includes specific information required for each item in the table below. Each functional entity¹ responsible for reporting the respective data in the table is identified by brackets “[functional entity]” adjacent to and following each data item. The data reported shall be as identified by the bus number, name, and/or identifier that is assigned in conjunction with the PC, TO, or TP.

steady-state (Items marked with an asterisk indicate data that vary with system operating state or conditions. Those items may have different data provided for different modeling scenarios)	dynamics (If a user-written model(s) is submitted in place of a generic or library model, it must include the characteristics of the model, including block diagrams, values and names for all model parameters, and a list of all state variables)	short circuit
- Each bus [TO] - nominal voltage - area, zone and owner - Aggregate Demand² [LSE] - real and reactive power* - in-service status* - Generating Units³ [GO, RP (for future planned resources only)] - real power capabilities - gross maximum and minimum values - reactive power capabilities - maximum and minimum values at	- Generator [GO, RP (for future planned resources only)] - Excitation System [GO, RP (for future planned resources only)] - Governor [GO, RP (for future planned resources only)] - Power System Stabilizer [GO, RP (for future planned resources only)] - Demand [LSE]	- Provide for all applicable elements in column “steady-state” [GO, RP, TO] - Positive Sequence Data - Negative Sequence Data - Zero Sequence Data - Mutual Line Impedance Data [TO] - Other information requested by the Planning Coordinator or Transmission Planner necessary for modeling

¹ For purposes of this attachment, the functional entity references are represented by abbreviations as follows: Balancing Authority (BA), Generator Owner (GO), Load Serving Entity (LSE), Planning Coordinator (PC), Resource Planner (RP), Transmission Owner (TO), Transmission Planner (TP), and Transmission Service Provider (TSP).

² For purposes of this item, aggregate Demand is the Demand aggregated at each bus under item 1 that is identified by a Transmission Owner as a load serving bus. A Load Serving Entity is responsible for providing this information, generally through coordination with the Transmission Owner.

³ Including synchronous condensers and pumped storage.

steady-state <i>(Items marked with an asterisk indicate data that vary with system operating state or conditions. Those items may have different data provided for different modeling scenarios)</i>	dynamics <i>(If a user-written model(s) is submitted in place of a generic or library model, it must include the characteristics of the model, including block diagrams, values and names for all model parameters, and a list of all state variables)</i>	short circuit
real power capabilities in 3a above c. station service auxiliary load for normal plant configuration (provide data in the same manner as that required for aggregate Demand under item 2, above). d. regulated bus* and voltage set point* (as typically provided by the TOP) e. machine MVA base f. generator step up transformer data (provide same data as that required for transformer under item 6, below) g. generator type (hydro, wind, fossil, solar, nuclear, etc) h. in-service status* 4. AC Transmission Line or Circuit [TO] a. impedance parameters (positive sequence) b. susceptance (line charging) c. ratings (normal and emergency)* d. in-service status* 5. DC Transmission systems [TO] 6. Transformer (voltage and phase-shifting) [TO] a. nominal voltages of windings b. impedance(s) c. tap ratios (voltage or phase angle)* d. minimum and maximum tap position limits e. number of tap positions (for both the ULTC and NLTC) f. regulated bus (for voltage regulating transformers)* g. ratings (normal and emergency)* h. in-service status* 7. Reactive compensation (shunt capacitors and reactors) [TO] a. admittances (MVars) of each capacitor and reactor b. regulated voltage band limits* (if mode of operation not fixed) c. mode of operation (fixed, discrete, continuous, etc.) d. regulated bus* (if mode of operation not fixed) e. in-service status* 8. Static Var Systems [TO]	6. Wind Turbine Data [GO] 7. Photovoltaic systems [GO] 8. Static Var Systems and FACTS [GO, TO, LSE] 9. DC system models [TO] 10. Other information requested by the Planning Coordinator or Transmission Planner necessary for modeling purposes. [BA, GO, LSE, TO, TSP]	purposes. [BA, GO, LSE, TO, TSP]

steady-state <i>(Items marked with an asterisk indicate data that vary with system operating state or conditions. Those items may have different data provided for different modeling scenarios)</i>	dynamics <i>(If a user-written model(s) is submitted in place of a generic or library model, it must include the characteristics of the model, including block diagrams, values and names for all model parameters, and a list of all state variables)</i>	short circuit
a. reactive limits b. voltage set point* c. fixed/switched shunt, if applicable d. in-service status* 9. Other information requested by the Planning Coordinator or Transmission Planner necessary for modeling purposes. [BA, GO, LSE, TO, TSP]		

5.2 WECC Data Preparation Manual

The latest available WECC Data Preparation Manual shall be adopted, and can be found at the WECC SRS webpage³, under the section “Data Preparation Manual”. The current latest version is the 2026 Data Preparation Manual revision 22, dated October 22, 2025.

The modeling requirements as outlined in the latest approved DPM shall be followed with the exceptions and additions of the following:

- BC Hydro’s transmission system model includes transmission system > 60 kV and also includes the step down transformers and buses on the low side of the step down transformers.
- For generating facilities with aggregated-generator-unit capacity less than 10 MVA, the generators may be either modeled as individual machines or aggregated. Appropriate steady-state and dynamic data should be provided regardless of which modeling option is adopted.
- For collector-based generator facilities with an aggregated generation capacity of 20 MVA or larger, then the steady-state and dynamics data can be submitted for the generation facility as a single-unit generator model or multiple unit generator model (Wind and solar farms are an example of a collector-based generation facility.)

³ <https://www.wecc.org/committees/srs>

5.3 WECC Base Case Preparation Process

This section describes the WECC Base Case Preparation Process. BC Hydro is designated as the Area Coordinator for areas 50 and 52 and follows the WECC Base Case Compilation Schedule as prepared by WECC SRS in addressing the WECC Base Case Requests. The following actions are taken by SM&PS Team assuming the role of Area Coordinator within BC Hydro:

Base Case Development Process

- Receive WECC Base Case Data Request email which includes the scenario and assumptions for the base case being requested.
- Customize Case as per WECC's specifications.
 - This includes confirming the inter-area flows with neighbouring entities
 - For operating (OP) cases within WECC's Base Case Compilation Schedule (BCCS), SM&PS team confirms with BC Hydro Generator System Operations (GSO) that the generation pattern used in the base case is representative of WECC's requested scenario.
 - Customize and create base case using the latest version of BC Hydro SM&PS's PSS infrastructure
- Receive Fortis BC's base case for Area 52
 - Update and incorporate changes from Fortis BC's base case into BC Hydro's base case (e.g. topology changes, generation dispatch, etc.).
 - Send updated case to Fortis BC for review to ensure all changes are performed appropriately.
- Review case prior to submission
 - Check interties in base case meet the proposed targets
 - Check system voltages and correct normal overloads as necessary. System voltages should ideally be within +/- 5% of nominal voltage.
 - For operating (OP) cases, ensure the generation dispatch in the case aligns with the feedback and confirmation obtained from GSO.

- Complete Load and Resource spreadsheet for base case
- Upload all requested data through WECC Secure Workspace and save confirmation to SM&PS SharePoint site as record of compliance.

WECC Base Case Review Process

- Receive WECC Action Request to review Interconnection Wide Base Case compiled by WECC.
- Review BC Hydro portion of the Base Case and complete Data Comment and System Review sign off sheet as provided by WECC
- Receive Fortis BC's review and completed Data Comment and System Review sign off sheet for their portion (Area 52) of the Base Case
- For operating (OP) cases within WECC's BCCS, SM&PS team also reaches out to TDSO to complete Operations Representative Approval Form sign off sheet.
- All sign off sheets are consolidated and sent to WECC by BC Hydro by email. Emails are saved to SM&PS SharePoint site as a record of compliance.

5.4 WECC Short Circuit Data Request Email Sample

WECC Short Circuit Modeling Subcommittee (SCMS) sends an annual SCMS Short Circuit Data Request to BC Hydro. An example of the most recent request at the time of writing of this methodology document is shown below (2025 SCMS Short Circuit Data Request). The data request allows submission of the current year short circuit model in either ASPEN “.olr” AND exported “.dxt” format, or in Cape “.fdb”/ “.gdb” AND exported “.dxt” format. In addition, a Seams Locations excel spreadsheet is to be submitted to support WECC in handling boundaries between the different entities. Currently, BC Hydro P&C Planning team provides the data in ASPEN format to address this request.

From: [REDACTED]
Sent on: Friday, August 29, 2025 5:44:24 PM
To: [REDACTED]
CC: [REDACTED]
Subject: [External] 2025 SCMS Short Circuit Data Request
Categories: WECC

Don't click on links or open attachments unless you trust the sender and are expecting the link or attachment. If you suspect this message to be phishing, please report it by clicking the Phishing Knowledge button in this Outlook toolbar and select "Phishing".



Action Request: 2025 SCMS Short Circuit Data Request

The following data request is on behalf of the Short Circuit Modeling Subcommittee (SCMS). It has been expressed that the SCMS has both a desire and a need to have visibility into neighboring entity short circuit models and, in some instances, the models are difficult to obtain. On September 24, 2018, the SCMS approved WECC to host these models on the WECC website, where they will be treated as confidential information under the WECC Information Sharing Policy.

Please securely submit the requested models via the [WECC website](https://www.wecc.org) in accordance with the requirements below. Note if the link does not work, it means you do not have access and should email support@wecc.org and CC me, and we can work on granting you access.

If you did not receive this request and feel like you should have, PLEASE update the "SC Team Site Contact Sheet.xlsx" on the Team Site (linked below).

Data Request Requirements:

- Current year short circuit model (operating cases built model) in one of the following formats:

ASPEN .olr AND exported .dxt format

Or CAPE .fdb AND exported .dxt format

- Seam locations: Using the "Seam Locations.xlsx" excel file

- Contact information: Added to "Short Circuit Model Contact Information" excel file

Date: Date October 5, 2025

Note: While this data is not intended for compliance purposes, submitting it may help show compliance with MOD-032 reporting requirements and could improve coordination between neighboring protection systems.

If you have any questions or concerns, please feel free to contact Tyson Niemann at tsniemann@wecc.org

