WECC

Attachment 1
Specialized Case Request Form

Logan Affleck
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The purpose of this form is to provide details on what information is expected when requesting a specialized case. To request a specialized base case, submit a base case request by emailing this completed form to the SRS liaison, Logan Affleck. Complete the highlighted sections. If you have questions, you can contact the SRS liaison.

Requested by:

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Case Description

Specialized base case requests represent critical operating conditions such as severe weather events, equipment out of service (transmission lines, reactive devices, or static VAr compensators), unusual generation patterns due to forced outages, and insecure voltage conditions. Some cases may represent extreme load conditions (up to 105% of forecast peak) in a particular subregion. Data submitters should not be reluctant to model a condition due to lack of historical record of the scenario occurring.

The requester should detail the critical operating conditions desired in the base case under the Purpose section of the Case Description Form. A specialized request should outline how the case is unique compared to the typical cases produced in the base case compilation schedule. If the request is similar to a case already produced in the compilation schedule, the Case Description Form must clearly identify why a new case is necessary. For example, a two-year heavy winter (HW) case with no specific changes to load, generation, or interchange targets is unlikely to be built, since the HW operating case could simply be scaled accordingly.

Request Completion Date

If applicable, the date and reason the case needs to be completed to be useful for the requester should be provided, so the base case coordinator can determine whether the case can be fit accordingly into the Base Case Compilation Schedule (BCCS).

Needed Completion Date Q4 2027

Reason for Needed Completion Date: The WestConnect Model Development process begins in April of even cycle years. Having the case Q4 2027 or early 2028 will align with the WestConnect Model Development process.

Case Description Details

Model light-load conditions for 2038, along with renewable generation resources serving a significant but realistic portion of the WECC total load. The case should include renewable resource capacity additions that are planned as well as those that may be required to meet any applicable and enacted public policy requirements for the 10-year horizon.

LOADS: Load levels refer to the season being studied. All loads are coincident unless indicated otherwise. Please specify load percentage or degree (heavy, light) of loading for a specific season or month(s).

TIME: Specified time supersedes specified percentage of load. Please specify the time the special study wishes to simulate for the WECC interconnection-wide model with the hour range and time zone.

GENERATION: Generation levels refer to the season being studied. For example, high hydro generation in a winter case may be lower than median hydro generation in the spring. Renewable generation, when specified, should be based on the individual entity's Renewable Portfolio Standard. If desired in the requester's special study, please specify the generation dispatch of HYDRO, THERMAL, and RENEWABLE by AREA with HIGH, LOW, or MEDIAN, or by percentage.

INTERCHANGE: Interchange schedules refer to the target flows that should be reached to represent anticipated flow levels and direction for the season being studied. Targets may be altered as anticipated operating conditions become more clearly known. If no target flows are specified, actual scheduled transfers will be based on each area's load and generation balance and economical generation dispatch.

If the special study requires it, please specify per area the CONDITION as LIGHT, MODERATE, HEAVY, or MAXIMUM; the TARGET as the desired MW Interchange, with a negative sign indicating reverse flow on the path (Note: Many Path Ratings have different transfer limits depending on the flow direction. Refer to the WECC Path Rating Catalog.); the % RATING specifies the percentage of the interchange transfer limit based on the WECC Path Rating Catalog.

Case Description Form	2038 LIGHT SPRING – 38LSP1S
CASE DUE DATES:	(to be completed by SRS and WECC staff)

PURPOSE: *Model light-load conditions, along with renewable generation resources serving a significant but realistic portion of the WECC total load. The case should include renewable resource capacity additions that are planned as well as those that may be required to meet any applicable and enacted public policy requirements for the 10-year horizon.*

ITEMS TO BE PREPARED:	From Case	(TBD)
	Stability Data	Master Dynamics File
	Significant Changes	From Existing System

LOADS: Target 50-60% of peak summer loads in the WECC region that would occur during the spring months of March, April, and May[1].

TIME: 200 to 1400 hours MDT.

GENERATION:	**HYDRO**	**THERMAL**	**RENEWABLE**
Canada	--	--	--
Northwest	--	--	--
Idaho/Montana	--	--	--
Colorado/Wyoming	--	--	--
Northern California Hydro	--	--	--
Northern California	--	--	--
Southern California	--	--	--
Arizona/New Mexico/Southern Nevada	--	--	--

INTERCHANGE	**CONDITION**	**TARGET**	**% RATING**
Northwest to British Columbia (Path 3)	--	--	--
Northwest to California/Nevada			
COI (Path 66)	--	--	--
PDCI (Path 65)	--	--	--
Midway–Los Banos S–N (Path 15)	--	--	--
Idaho to Northwest (Path 14)	--	--	--
Montana to Northwest (Path 8)	--	--	--

[1] Different Load-Serving Entities could expect higher or lower than 50-60% of their peak summer loads. Some could expect minimum load for 12:00 to 14:00 MDT in months of March, April, and May due to significant effect of self-generation. For example, the light spring load demands in the CAISO-controlled grid are projected to be its annual minimum level due to heavy output from projected behind-the-meter solar PV self-generation. The percentages of non-coincident peak load are as low as 16%, 23%, and 14% at hour 14:00 MDT in April 2038 for PG&E, SCE, and SDG&E, respectively.

Utah/Colorado to Southwest (Path 31, 35, 78)	--	--	--
Southwest to Calif. (EOR Path 49/WOR Path 46)	--	--/--	--/--
Intermountain to Adelanto DC (Path 27)	--	--	--
San Diego to CFE (Path 45)	--	--	--
Northern to Southern California (Path 26)	--	--	--