The following is an example specialized (formerly scenario) request to function as a template for actual requests. Please complete the template with as much detail as possible. The SDWG Chair, Vice Chair, and Compliance Base Case Coordinator can be contacted for assistance.

*A SDWG member should submit the completed study request by emailing the form to the SDWG Base Case Coordinator listed in the 2020 Data Subcommittee Survey.*

# Case Description

Specialized base case requests are intended to 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 percent of forecasted peak) in a particular sub-region. Data submitters should not be reluctant to model a condition due to lack of historical record of the scenario actually occurring.

The requestor should detail the critical operating conditions desired in the base case under the purpose section of the Case Description Sheet.

# Requested Completion Date

If applicable, the date and reason the case needs to be completed to be useful for the requestor should be provided, so the Base Case Coordinator can determine if the case can be fit accordingly into the Base Case Compilation Schedule.

**Needed Completion Date** [if a specific completion date for the specialized request is needed please provide it here]**:**

**Reason for Needed Completion Date:**

# Case Description Details

[Description of details defined in the requested Case Description Sheet]

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 period 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 individual entities’ Renewable Portfolio Standard. If desired in the requestors 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 special study requires, 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. Please 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 | | Attachment 1 | | |
| **CASE DUE DATES:** | | (to be completed by SDWG and WECC Staff) | | |
|  | |  | | |
| **PURPOSE:**  *Example –* Prepare a case with maximum spinning reserve represented (as many units on line as possible) with moderate to heavy interarea transfers to study the year 2024. | | | | |
| **ITEMS TO BE PREPARED:** | | From Case | (TBD) | |
|  | | Stability Data | Master Dynamics File | |
|  | | Significant Changes | From Existing System | |
| **LOADS:** | e.g. X-Y % of (seasonal) peak; xx% seasonal peak 1 in 2 years load. | | | |
| **TIME:** | e.g. 1800 – 2000 hours MST. | | | |
| **GENERATION:** | | HYDRO | THERMAL | RENEWABLE |
| Canada | | High/Median | -- | -- |
| Northwest | | High/Median | High | -- |
| Idaho/Montana | | Median | High | -- |
| Colorado/Wyoming | | Low | High | -- |
| Northern California Hydro | | Median | -- | -- |
| Northern California | | Low | High | -- |
| Southern California | | Low | High | -- |
| Arizona/New Mexico/Southern Nevada | | Low | High | -- |
| **INTERCHANGE** | | CONDITION | TARGET | % RATING |
| Northwest to British Columbia (Path 3) | | Moderate | 15001 | 50% |
| Northwest to California/Nevada–COI (Path 66) | | Moderate | 2000 | 42% |
| PDCI (Path 65) | | Heavy | 2400 | 75% |
| Midway – Los Banos S-N (Path 15) | | -- | -- | -- |
| Idaho to Northwest (Path 14) | | -- | -- | -- |
| Montana to Northwest (Path 8) | | Moderate | 1400 | 64% |
| Utah/Colorado to Southwest (Path 31, 35, 78) | | -- | -- | -- |
| Southwest to Calif. (EOR Path 49/WOR Path 46) | | Moderate | 4000/5000 | 43%/47% |
| Intermountain to Adelanto DC (Path 27) | | Heavy | 2100 | 88% |
| San Diego to CFE (Path 45) | | -- | 60 | 15% |
| Northern to Southern California (Path 26) | | Heavy | 2800 | 70% |