



WECC

SRS Chair Report

November 2020

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Technical Director (PSC)


The 2020 Base Case Compilation Schedule includes the following base cases:

- Typical base cases
 - Operating base cases
 - [2020-21 Heavy Winter](#)
 - [2020-21 Light Winter](#)
 - [2021 Heavy Spring](#)
 - [2021 Heavy Summer](#)
 - [2021 Light Summer](#)
 - Two-year base cases (abbreviated build schedules)
 - [2021-22 Heavy Winter](#)
 - [2022 Heavy Summer](#)
 - Five-year base cases
 - [2025-26 Heavy Winter](#)
 - [2026 Heavy Summer](#)
 - Ten-year base cases
 - [2030-31 Heavy Winter](#)
 - [2031 Heavy Summer](#)
 - Specialized base case
 - [2024 Light Spring with the lowest inertia forecasted](#)

San Fernando Disturbance

https://www.nerc.com/pa/rrm/ea/Documents/San_Fernando_Disturbance_Report.pdf

- **Dynamic Model Accuracy:** NERC and WECC have previously identified⁷ modeling issues in the interconnection-wide planning base cases, and modeling challenges continue to be an issue with industry. Discussions with GOs of solar PV facilities during this analysis have highlighted that changes to equipment may take place, but there is little to no emphasis put on getting TP or PC approval of these changes (as a material modification to the facility) prior to making them, nor on ensuring that the TP and PC receive updated dynamic models following those changes. NERC IRPWG has submitted a standard authorization request to modify FAC-002-2 to clarify the use of “material modification” in that standard.
- **Recommendation (GO, GOP):** GOs and GOPs should ensure that any changes to plant-level settings, inverter settings, or facility topologies or ratings should be articulated to the TP, PC, BA, and RC. Any applicable interconnection requirements, per FAC-001-3 and FAC-002-2, must be met prior to these changes being made to the facility, including restudy of these changes by the TP and PC. GOs and GOPs should coordinate with their TP and PC to determine if any changes within the facility are considered “material” and require any additional restudy.
- **Recommendation (TO, TP, PC, Industry):** TOs should ensure that their interconnection requirements are clear and any modifications to the facility that can or will change the electrical behavior of the facility (including any settings changes to inverters that affect its electrical output during steady-state or dynamic conditions) should be considered material and should be studied prior to those changes being made. TOs, TPs, and PCs should ensure that their processes for making these changes are timely and effective such that GOs are not discouraged from making these changes to support overall reliability of the BPS.




San Fernando Disturbance

Southern California Event: July 7, 2020
Joint NERC and WECC Staff Report

November 2020

RELIABILITY | RESILIENCE | SECURITY



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RAC Guidance to SRS

- Re-establish Joint Software Users Group
 - JUG: Focus on software interoperability issues
- Survey on support for EMT data/studies
- Survey on node/breaker modeling desire
 - White paper on cost/benefits/need, etc
- Slow roll on unified data set (what is it)



Base Case Schedule

- https://www.wecc.org/Reliability/2020-BCCS%20WECC_DS%20Approved%20May%202019.pdf

2020 Base Case Compilation Schedule

Case ¹	Date Data Request Mailed	Date Data Due to Data Submitter	Date Data Due to WECC Staff	WECC Staff Send Case for Review	Date Comments Due to Data Submitter	Date Data Submitter Comments Due to WECC Staff	WECC Staff Finalize Date
2029-30 HW1	05/17/19	06/21/19	07/19/19	08/30/19	09/13/19	09/27/19	10/11/19
2030 HS1							
2030 LSP1-S	07/05/19	08/09/19	09/06/19	10/04/19	10/11/19	10/18/19	11/01/19
2020-21 HW2-OP	10/04/19	11/15/19	12/13/19	01/17/20	01/31/20	02/14/20	02/28/20
2020-21 LW1-OP							
2021 HSP1-OP	11/15/19	12/12/19	01/17/20	02/14/20	02/28/20	03/13/20	03/27/20
2024 LSP1-S	12/20/19	01/24/20	02/21/20	03/20/20	04/03/20	04/17/20	05/01/20
2025-26 HW2	02/14/20	03/27/20	05/01/20	06/05/20	06/19/20	07/03/20	07/31/20
2026 HS2							
2022-23 HW2	02/28/20				03/20/20	04/10/20	05/01/20
2021 HS3-OP	03/27/20	05/08/20	06/05/20	07/03/20	07/17/20	07/31/20	08/28/20
2021 LS1-OP							
2030-31 HW1	05/08/20	06/19/20	07/17/20	08/21/20	09/04/20	09/18/20	10/16/20
2031 HS1							
2023 HS3	08/28/20				9/18/20	10/09/20	10/30/20

¹ 2019 Case Schedule

² Data provided to the Data Submitter is expected to include topology corrections common to the set of cases being developed, project files for the out-year case (if applicable), and a load, generation and voltage profile for each case.



Unified Data Set

- Begin identifying what a unified modeling data set looks like
 - Includes:
 - Power flow
 - Short Circuit
 - Transient stability
 - EMTP
 - Production Cost Data
 - EMP/GMD
 - GIS
- Document and consider task force creation



Action Items

- Action Items (a journey, not a destination)
 - Customer satisfaction (base case improvement)
 - Capture data from Peak RC closure
 - Improve SADD metrics
 - Emergency ratings
 - Identify “market generation” to be dispatched for generation retirements
 - Investigate if present notion of a heavy summer case is adequate
 - Proper controls of location/GMD/RAS/ctg data
 - More available not less
 - Data sharing with Federal Agencies
 - DOE and DTRA requesting data for EMP, etc.
 - See SRS page for detailed list





WECC

Electric Reliability and Security for the West

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