**Planning Working Group (PLWG)**

**Meeting Notes**

**September 19, 2023**

**In-Person and WebEx**

1. **Antitrust Admonition**
2. **Agenda Review**
3. **Review of PLWG Meeting Minutes from July 18, 2023**
	1. No changes were made to the meeting notes
4. **General Update**
	1. ROS endorsed [PGRR 105 Deliverability Criteria for DC Tie Imports](https://urldefense.com/v3/__https%3A/www.ercot.com/mktrules/issues/PGRR105__;!!FvyJbJE!UCIeQDXSrN1zhcLkkiiuDSwaD9aEdERAlZYcwnMtssGmKjkpTVnPLaKl90Bn7fpzRvkFBA1EeVb0EHRb6DHiQg_8Vw$) and forwarded to TAC.
	2. ROS confirmed that KTC 15-6 RMR and MRA Services is not assigned to PLWG.
5. **ERCOT New SOL Methodology and NERC FAC-014-3 R7 Requirements (Kiran Nandigam, ERCOT)**
	1. [https://www.ercot.com/files/docs/2023/09/12/FAC-014-3%20R7%20Requirement%20(Corrective%20Action%20Plan).pdf](https://urldefense.com/v3/__https%3A/www.ercot.com/files/docs/2023/09/12/FAC-014-3%2A20R7%2A20Requirement%2A20%28Corrective%2A20Action%2A20Plan%29.pdf__;JSUlJSU!!FvyJbJE!UCIeQDXSrN1zhcLkkiiuDSwaD9aEdERAlZYcwnMtssGmKjkpTVnPLaKl90Bn7fpzRvkFBA1EeVb0EHRb6DEvcZXOGg$)
	2. NERC FAC-010-3 SOL Methodology for the Planning Horizon will be retired on March 31, 2024.
	3. NERC FAC-011-3 SOL Methodology for the Operations Horizon will be replaced with FAC-011-4 on April 1, 2024.
	4. NERC FAC-014-2 Establishing and Communicating SOL and SOL Information will be replaced with FAC-014-3 on April 1, 2024.
	5. **NERC FAC-011-4 R7** will require ERCOT and TSPs to communicate certain information about CAPs developed to “address any instability identified in its Planning Assessment of the Near-Term Transmission Planning Horizon”.
	6. Discussion and questions provided clarifications:
		1. assessments completed after April 1, 2024, should comply with these requirements.
		2. Slides were presented to DWG
		3. ERCOT explained the NERC standards drafting procedure and the gap between planning and operations SOLs.
		4. The table on Slide 5 should be completed for CAPs in the stability analysis and CAPs that mitigate voltage collapse (i.e., steady-state voltage instability) in the steady-state analysis.
6. **ERCOT Congestion Cost Savings Test Discussion (Jack Moore, E3)**
	1. [https://www.ercot.com/files/docs/2023/09/15/E3\_ERCOT\_Congestion\_Cost\_Savings\_Test\_Study\_2023-09-17.pdf](https://urldefense.com/v3/__https%3A/www.ercot.com/files/docs/2023/09/15/E3_ERCOT_Congestion_Cost_Savings_Test_Study_2023-09-17.pdf__;!!FvyJbJE!UCIeQDXSrN1zhcLkkiiuDSwaD9aEdERAlZYcwnMtssGmKjkpTVnPLaKl90Bn7fpzRvkFBA1EeVb0EHRb6DGP3i1crQ$)
	2. PUCT directed ERCOT to create a “consumer benefits test” for evaluating the economic benefits of a transmission upgrade. This test will complement the existing “production cost savings test”.
	3. E3 is focused on designing a methodology for calculating “economic energy benefits” that is viable under ERCOT market rules and structure.
	4. *E3 recommends that ERCOT adopt the* ***System-Wide Gross Load Cost Test****. This test directly estimates the effect of transmission upgrades on energy costs to ERCOT load by calculating how the upgrade changes wholesale market prices paid at ERCOT load nodes.*
	5. In response to a question, Jack said that E3 is planning to publish a report documenting their findings.
	6. Prabhu Gnanam (ERCOT) said that ERCOT expects to eventually submit a PGRR or NPRR to implement the Gross Load Cost Test, which will then undergo stakeholder review.
7. **PGRR 109 Dynamic Model Review Process Improvement for IBR Modification**
	1. [PGRR 109](https://urldefense.com/v3/__https%3A/www.ercot.com/mktrules/issues/PGRR109__;!!FvyJbJE!UCIeQDXSrN1zhcLkkiiuDSwaD9aEdERAlZYcwnMtssGmKjkpTVnPLaKl90Bn7fpzRvkFBA1EeVb0EHRb6DFnco0XSA$) introduces a new requirement for IEs associated with IBRs to undergo a dynamic model review process prior to resource commissioning and before implementing changes to settings or equipment that would affect the dynamic model.
	2. Kristin Cook (Southern Power) said that Southern and other stakeholders are planning to file comments in the next few weeks. In general, stakeholders hope the proposed changes will resolve stakeholder concerns (e.g., broadness of “any changes” language, data submission and review timelines) while still accomplishing ERCOT objectives.
	3. There was discussion about various details of the PGRR.
	4. Jordan Troublefield (ERCOT Rules) clarified the earliest this rule could come into effect would be February 2024, assuming comments are submitted in a timely manner.
	5. *PLWG will table PGRR 109 for further discussion at the October meeting.*
8. **Review Open Action Items**
	1. [**PGRR 107**](https://urldefense.com/v3/__https%3A/www.ercot.com/mktrules/issues/PGRR107__;!!FvyJbJE!UCIeQDXSrN1zhcLkkiiuDSwaD9aEdERAlZYcwnMtssGmKjkpTVnPLaKl90Bn7fpzRvkFBA1EeVb0EHRb6DHyaDdcPA$) **(**[**NPRR 1180**](https://urldefense.com/v3/__https%3A/www.ercot.com/mktrules/issues/NPRR1180__;!!FvyJbJE!UCIeQDXSrN1zhcLkkiiuDSwaD9aEdERAlZYcwnMtssGmKjkpTVnPLaKl90Bn7fpzRvkFBA1EeVb0EHRb6DHaULxl9A$)**) – Inclusion of Forecasted Load in Planning Analyses.** In July, Oncor said that they would submit reply comments for PGRR 107 after ERCOT submitted comments for NPRR 1180; PLWG agreed to table PGRR 107 and NPRR 1180 until these comments are received. *PLWG will table PGRR 107 until at least the October meeting.*
	2. [**NPRR 1070**](https://urldefense.com/v3/__https%3A/www.ercot.com/mktrules/issues/NPRR1070__;!!FvyJbJE!UCIeQDXSrN1zhcLkkiiuDSwaD9aEdERAlZYcwnMtssGmKjkpTVnPLaKl90Bn7fpzRvkFBA1EeVb0EHRb6DEcJMXd3A$) **– Planning Criteria for GTC Exit Solutions.** Ping Yan (ERCOT) said that the consultants hired to study and develop Congestion Cost Test may have input to this issue as well.
9. **Other Business**
	1. (None)
10. **Adjourn**

**Attendees (In-Person)**

|  |  |
| --- | --- |
| Kaitlyn Babiarz | Mitsubishi Electric Power Products, Inc. |
| Jared Gurley | Oncor |
| Martha Henson | Oncor |
| Montse Meadows | Oncor |
| Constance McDaniel Wyman | ETT |
| Blake Gross | AEP |
| Lauri White | AEP Texas |
| Robert Golen | ERCOT |
| Brad Schwarz | Sharland |
| Pengwei Du | ERCOT |
| Sun Wook Kang | ERCOT |
| Sarah Gunasekera | ERCOT |
| Nicholas Jowlabar | RWE |
| Ping Yan | ERCOT |
| Raphael Carvalho | Omega |
| Bianca Gontijo | Omega |
| Dylan Preas | LCRA TSC |
| Harsh Naik | Oncor |
| Sandy Morris | WETT |
| Travis Leverett  | WETT |
| Marty Downey | Consultant - Luminant |
| Bob Wittmeyer | Longhorn Power |

**Attendees (Webex)**

AEP Doug Evans

Aarthi AKumar LCG

Abishek Penti ERCOT

Addie Smith

Ahn, Sirius

Alexandra Miller - EDFR

Amy Chen

Andrews, Sarah

Assem Aliyeva

Blake Gross - AEP

Blake Holt / Lower Colorado River Authority

Bob Wittmeyer - Longhorn Power

Brad Bell, Solar Proponent

Brad Woods

Brian Koz

Bridget Headrick - Customized Energy Solutions

Brigid Clifford

Bruce Grey

5 Call-in Users (for audio)

Chase Smith / Southern Power Company

Christina Minchew

Cloninger, Ross

Connor Anderson - AB Power Advisors

Craig Lockwood

Craig Wolf - RES

Dan Jones

David Milner - CPS Energy

De Torcy, Ben

Deb Lewis

EPallarez - ETT

ERCOT - Chris Azeredo

ERCOT - John Schmall

ERCOT - Jordan Troublefield

ERCOT - Ping Yan

ERCOT - Priya Ramasubbu

ERCOT - Robert Golen

ERCOT - Sadegh Modarresi

ERCOT - Shun-Hsien (Fred) Huang

ERCOT - Stephen Solis

ERCOT - Tanzila Ahmed

Edward Lopez - BTU

Edward Wen

Eric Lotter - GridMonitor

Greg Pyka/Schneider Engineering

Henson, Martha

Ian Haley - Morgan Stanley

Ivan Velasquez - Oncor

JG

James MacPherson Avantus

Jean Ryall

Jenna Keller - ERCOT IMM

Jiahong Yan

Jillian Huweart - Apex

Jim Lee / CenterPoint Energy

John - kWantix

John Poole

John Russ Hubbard

Jones, Liz

Jorge Canamar - EE Plus

Kiran Nandigam - ERCOT

Kelly Gough

Kiran Kota / National Grid Renewables

Kristin Cook, Southern Power

Kshitij Korde / National Grid Renewables

LCRA TSC - Andrew Hamann

LCRA TSC - Dylan Preas

Lakshmi Alagappan - E3

Laurie Block, L Block Consulting

Li Zhang calpine

Lielong Hsue - LCG Consulting

Lin, Yanling

Ling Luo

Liu, Meng

Long Tran

Mark Bruce

Mark Dreyufus

Mohammad Majidi-COP

Murillo, Maribel

Naik, Harsh

Nashawati, Eithar

Neelima Bezwada - IMM

Neeraja Dharme - EDFT

Olawunmi, Ola

Orlando Ramirez

PEC - Charles DeWitt

Paloma de ArizonCNP

Parvathaneni, Sirisha

Pengwei Du

Pushkar Chhajed ENEL

Raja Kakarla CNP

Ramya Ramaswamy - PUCT

Raphael Carvalho

Regina Sweet

Ritch, John

Saker, Charles

Sam Senanayake

Sandeep Borkar - LCRA TSC

Senen Paule - Luminant Energy

Seth Cochran / DC Energy 065847 - Seth Cochran / DC Energy

Shahooei, Zagros

Sidart Deb - LCG Consulting

Suzi McClellan

Theresa Noyes / Lower Colorado Rivery Authority

Thuy Huynh - Potomac

Tovar, Matt

Ward Jablonski MEPPI

Wes Woitt / CenterPoint Energy

efritz

ryan saccone