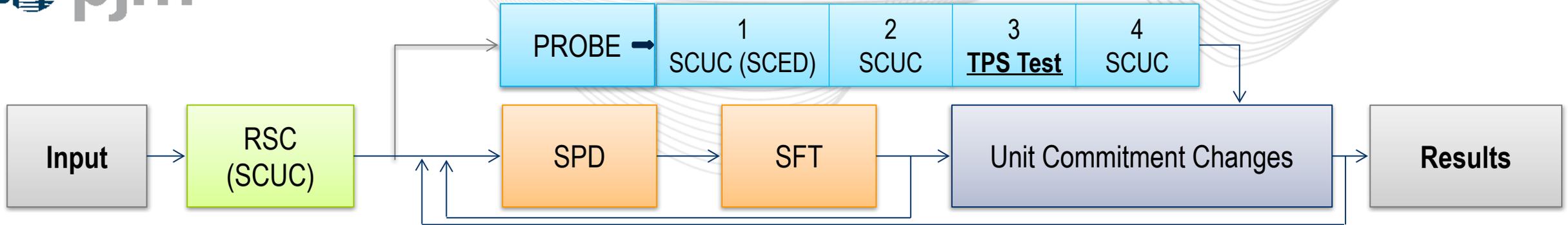




# Day Ahead Market Clearing Process

Keyur Patel  
Market Design  
MIC-Special Session  
July 27, 2023





The **Resource Scheduling and Commitment (RSC)** application is the first step in the DAM clearing process. This is a mixed integer linear program that provides unit commitment solutions by modeling major transfer constraints and includes various market inputs such as increment and decrement bids, price sensitive demand, economic demand response, import and export bids, and transactions.

The **Scheduling Pricing and Dispatch (SPD)** application is the second step to solve the DAM and models all constraints and provides the dispatch solution with pricing.

The **Simultaneous Feasibility Test (SFT)** runs following SPD and solves for Base Case and Contingency Power Flow Analysis. Provides overloaded constraints to SPD.

**PROBE** runs concurrent to SPD and SFT and provides a recommendation to the DA Operator that modifications to the RSC Commitment may be necessary. PROBE models for all constraints and includes the application of the TPS test and optimizes pumped storage resources. The PROBE application acts as a separate decision support tool that is not connected to the PJM network or databases.

**Unit Commitment Changes** accounts for PROBE recommendations, as well as real-time constraints, run-time adjustments, etc.

Facilitator:

Nikki Militello, [Nikki.Militello@pjm.com](mailto:Nikki.Militello@pjm.com)

Secretary:

Amanda Martin, [Amanda.Martin@pjm.com](mailto:Amanda.Martin@pjm.com)

Presenter:

Keyur Patel, [Keyur.Patel@pjm.com](mailto:Keyur.Patel@pjm.com)



## Member Hotline

(610) 666 – 8980

(866) 400 – 8980

[custsvc@pjm.com](mailto:custsvc@pjm.com)

**PROTECT THE  
POWER GRID  
THINK BEFORE  
YOU CLICK!**



Be alert to  
malicious  
phishing emails.

**Report suspicious email activity to PJM.**  
(610) 666-2244 / [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)

