

Congestion Impact Calculation Update

NYISO ESPWG
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Topics

- PROBE Status
 - SCUC – PROBE Alignment
 - PROBE Model Changes
- Calculation Status
 - Data Collection
 - 2003 Impact
 - 2004 & Going Forward
- Work Plan



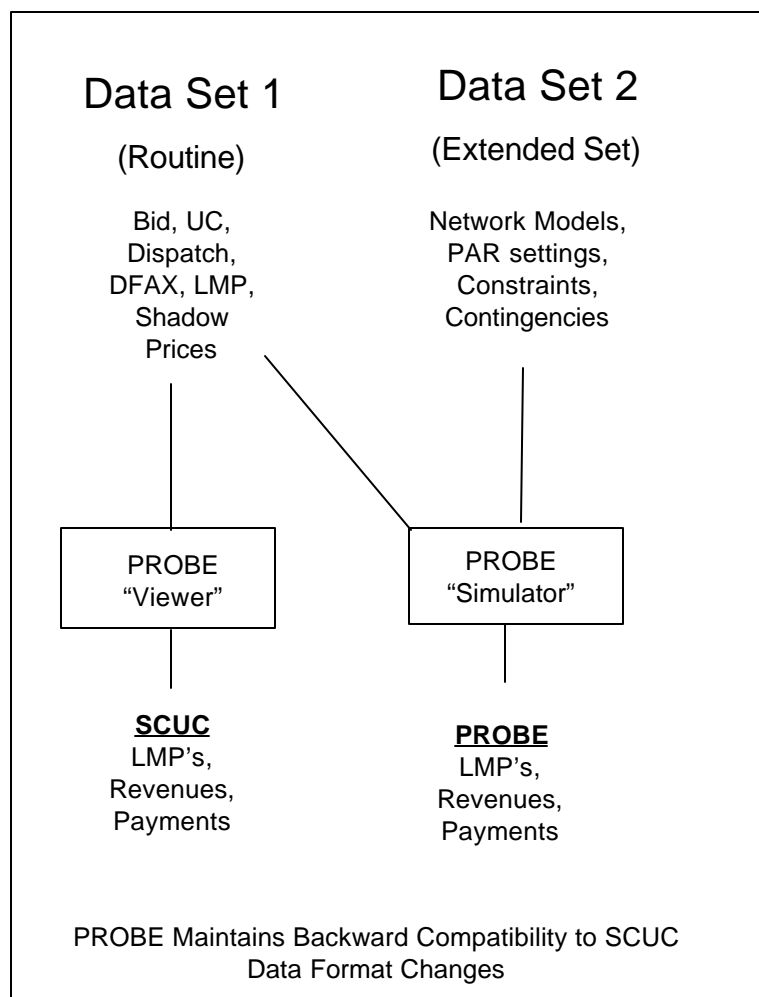
SCUC – PROBE Alignment

- Met with Operations and MMP
- Much Follow-up Communication for Further Clarifications & Investigations
- Focusing on 2 SCUC – PROBE Model Differences
 - SCUC Multi-Pass Logic Impact
 - Details of Constraint, Contingency Handling
 - Commitment Rules
 - GT Dispatch Handling After Ideal Dispatch Pass
- PROBE Being Modified to Align Modeling Assumptions
 - Early Results Indicate Significant Reduction of SCUC – PROBE Differences



Data

Data Needs



Data Status

- 2003
 - Set 1 Data Has Been Extracted for the Entire Year
 - Set 2 Data is Unavailable for 2003
 - 2003 Data Being Reviewed for Consistency & Completeness (Corrections and Additions Will be Needed)
- 2004
 - Data Sets 1 and 2 Being Collected
 - Routine "Production" Data Collection Being Initiated
 - Need to Anticipate SMD Effect on Data Extraction Procedures. PROBE Changes for SMD Have Started
 - Weekly Data Collection and Analysis Procedure Being Worked Out



Normal Calculation Protocol

- Step 1 – Compare SCUC (i.e. PROBE Viewer) and PROBE (i.e. PROBE Simulator) for the Market “as it was”
- Step 2 – Check if Accuracy Target is Met
 - Yes: Go to Step 3
 - No: Advise ESPWG and Exclude/Adjust Results
- Step 3 – Calculate Impacts with PROBE Simulator
- Step 4 – (If Required and Instructed) Adjust for Abnormal Events & Calculate Impacts with PROBE Simulator. Compare with Step 3



Calculation Status

PROBE Simulator Cannot Be Run Without the Data Set 2

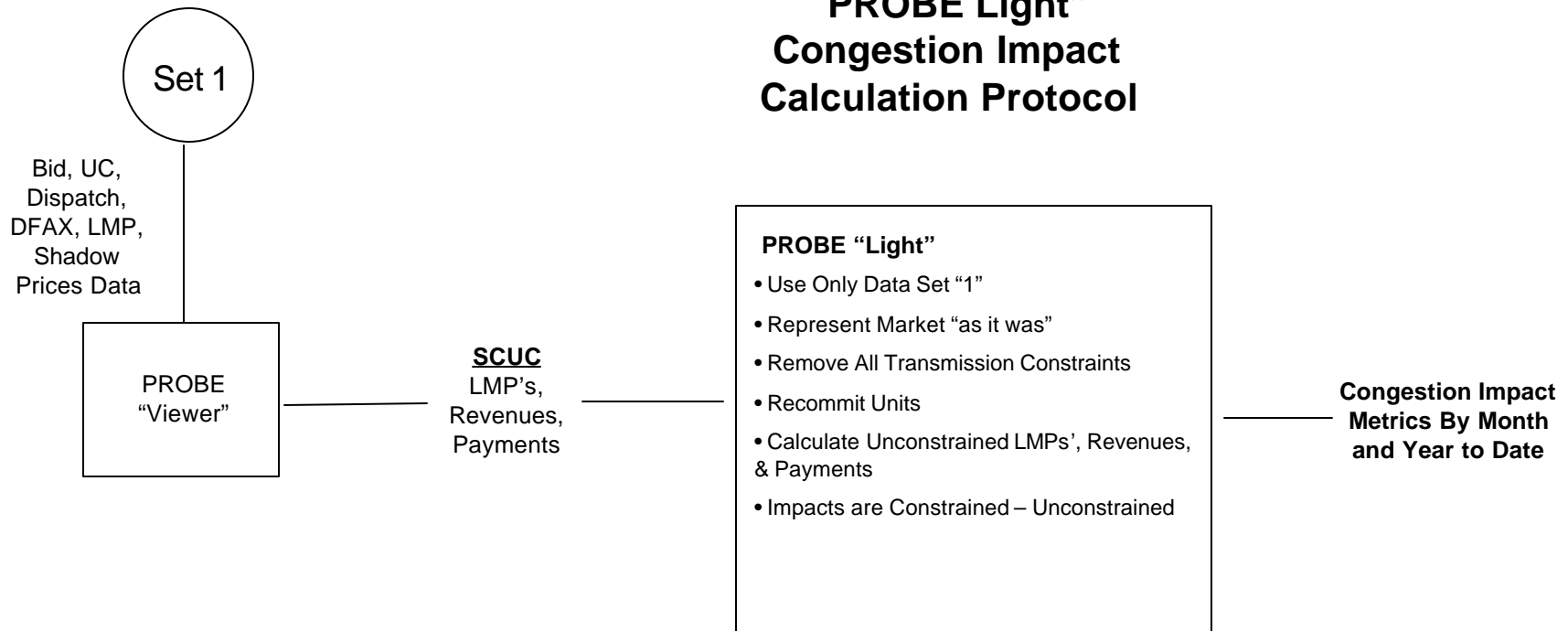
SCUC – PROBE Comparison Impossible

Normal Protocol Impossible

- 2003 Calculation
 - Data Set 2 Unavailable
 - Propose Using “PROBE Light” for 2003 calculation
- 2004 Calculation
 - Starting January 1
 - All Data Should Be Available
 - Normal Protocol Will Be Used



“PROBE Light” Congestion Impact Calculation Protocol



PROBE “Light”

Advantages

1. Requires Only Easily Obtainable Data
2. Can Produce 2003 Impacts More Quickly
3. Target As Many Metrics as Possible by Early April 2004

Disadvantages

1. No Normalizing or Sensitivity Changes are Possible



Next

PROBE Software

- Refine PROBE Modeling
- Add “PROBE Light” Capability to PROBE
- Clean Up 2003 Data (Set 1 only)
- Collect 2004 Data (Sets 1 and 2)
- Develop TCC Cost Data and PROBE Handling
- Develop PROBE Automation of Metrics Calculation
- Develop Automated Way to Handle Normalized Network and Interface to Bid Data

Calculation

- Document Calculation Process and Freeze
- Produce 2003 Metrics With “PROBE Light”
- Report Metrics Monthly Going Forward
 - PowerGEM Developing Routine Process
 - Routine Data processing by Summer 2004

