

Regional Studies Steering Committee (RSSC) Report

**March 21, 2017
Charlotte, NC**

**Marjorie Parsons, TVA
RSSC Chair**

RSSC and Advisory Group Activities

- EPA Clean Power Plan – Provided Guidance on Study and Reporting Expectations - Long-Term Study Group (LTSG)
- Engineering Committee (EC) and Operating Committee (OC) Loop Flow Team Effort Guidance - Near-Term Study Group (NTSG)
- Firm Flow Task Force - Subgroup for Capturing Interchange In Planning Models
- Studies Scoping Subteam - Direction on LTSG/NTSG 2017 Studies
- Participation in Usefulness Survey Subteam
- Work Breakdown Structure and Man-hours

SERC EC Dynamic Study Group

DSG Chair - John Sullivan (Ameren)

- 2016 Series Dynamics Models
 - Being built using MOD-032-1 related processes
 - Data Coordination Workbooks in process of updating in line with the MOD-032-1 participation
 - Participation letter for 2016 series cases to be prepared in near future
 - Cases should be completed and released within the next several weeks
- 2017 Series Dynamics Models
 - Work to begin on 2017 series starting in mid-June

SERC EC Dynamic Study Group

- 2017 Underfrequency Load Shedding and Frequency Response Review Study
 - Vendor selection process complete – BBA, Inc. chosen
 - Will begin process of compiling data to provide to vendor in near future to commence study work

SERC EC Long-Term Study Group (LTSG)

LTSG Chair: James Normansell – Tennessee Valley Authority (TVA)

- Published two final reports in December 2016
 - 2021 Summer Future Year Study
 - SERC Clean Power Plan Study
- TVA is hosting 2017 Data Bank Update
 - SERC Office will host meeting on May 23, 2017 - May 24, 2017
 - Final base case library (15 models) expected in June 2017
- 2022 Summer Future Year Study to begin in June 2017
 - Evaluation of study scope and sensitivities is underway
 - Publication of final report expected in December 2017

SERC EC Near-Term Study Group (NTSG)

NTSG Chair: Brett Guy (TVA)

Completed Studies:

- 2016 Winter Reliability Study – completed November 2016
 - Includes market dispatch in its traditional transfer analysis
 - New software and new process transitioned from MUST to TARA
- 16Q4 OASIS Study completed in October 2016
 - 2016 Winter, 2017 Spring, 2017 Summer, 2017 Fall, and 2017 Winter
- 17Q1 OASIS Study Completed February 2017
 - 2017 Spring, 2017 Summer, 2017 Fall, 2017 Winter, and 2018 Spring

SERC EC Near-Term Study Group (NTSG)

Upcoming Studies:

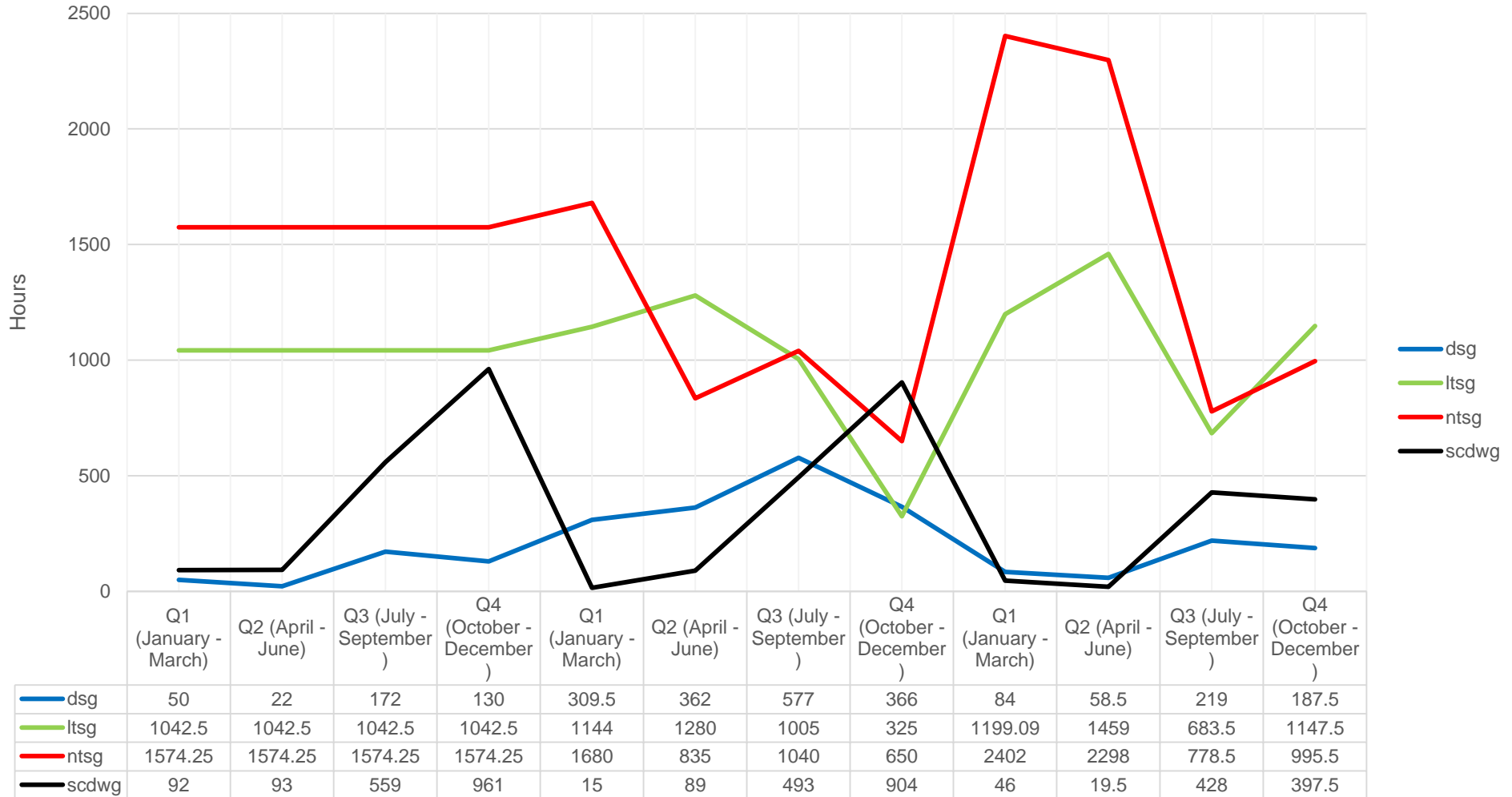
- 2017 Summer Reliability Study to be completed by June 2017
 - Includes market dispatch in its traditional transfer analysis
- 2017/2018 Winter Reliability Study to be completed by December 2017
 - Includes market dispatch in its traditional transfer analysis
- 17Q2: 2017 Summer, 2017 Fall, 2017 Winter, 2018 Spring, and 2018 Summer to be completed by April 2017
- 17Q3: 2017 Fall, 2017 Winter, 2018 Spring, 2018 Summer, and 2018 Fall to be completed by August 2018
- 17Q4: 2017 Winter, 2018 Spring, 2018 Summer, 2018 Fall, and 2018 Winter to be completed by November 2017

SERC EC Short Circuit Data Working Group (SCDWG)

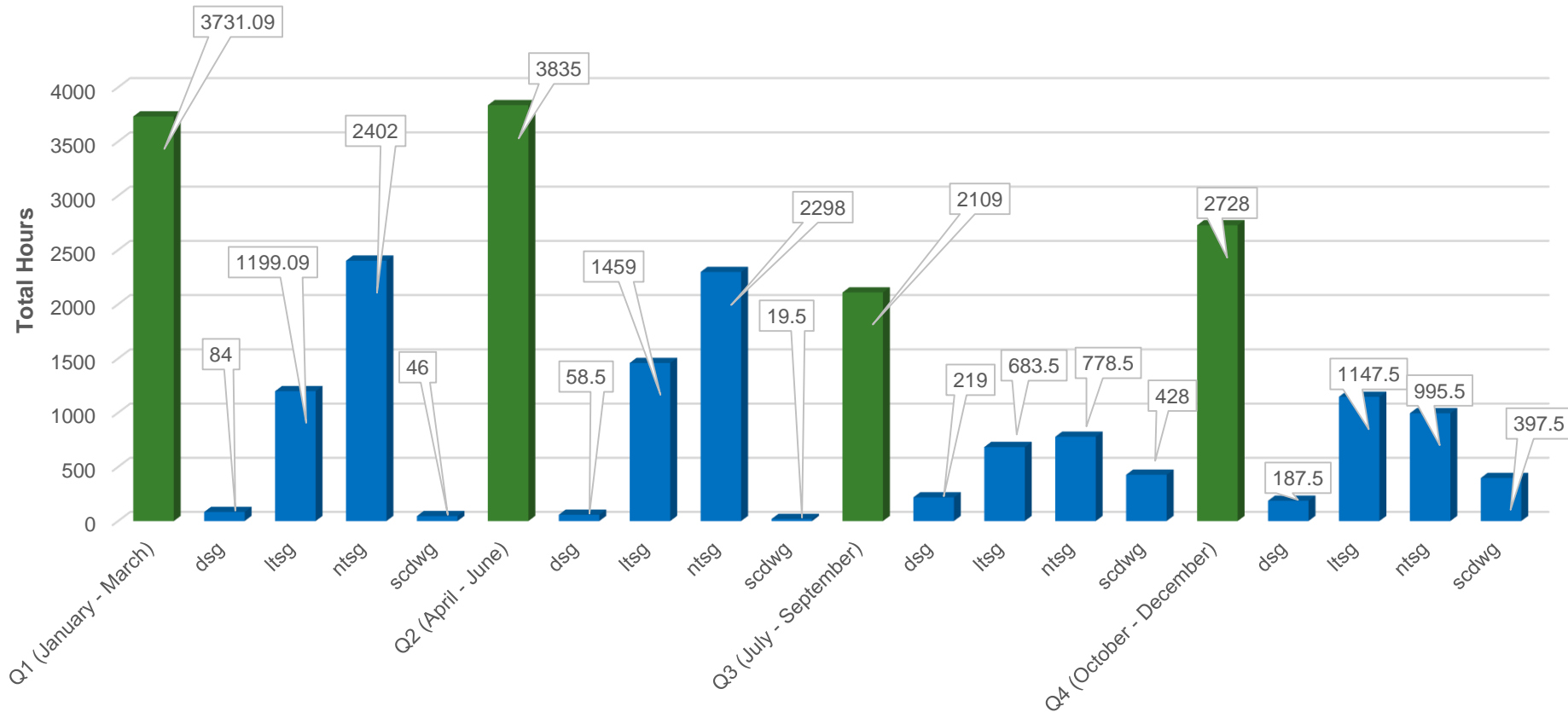
SCDWG Chair: Matthew Gant (TVA)

- SCDWG is building a near-term 2018 case and out year 2024 case
- Annual face-to-face meeting will take place October 3, 2017 through October 5, 2017 in Sullivan's Island, SC
- SCDWG cases expected to be published in early December 2017
- ERAG data requests for short circuit models

Committee Labor Hours by Quarter (past 3 years)

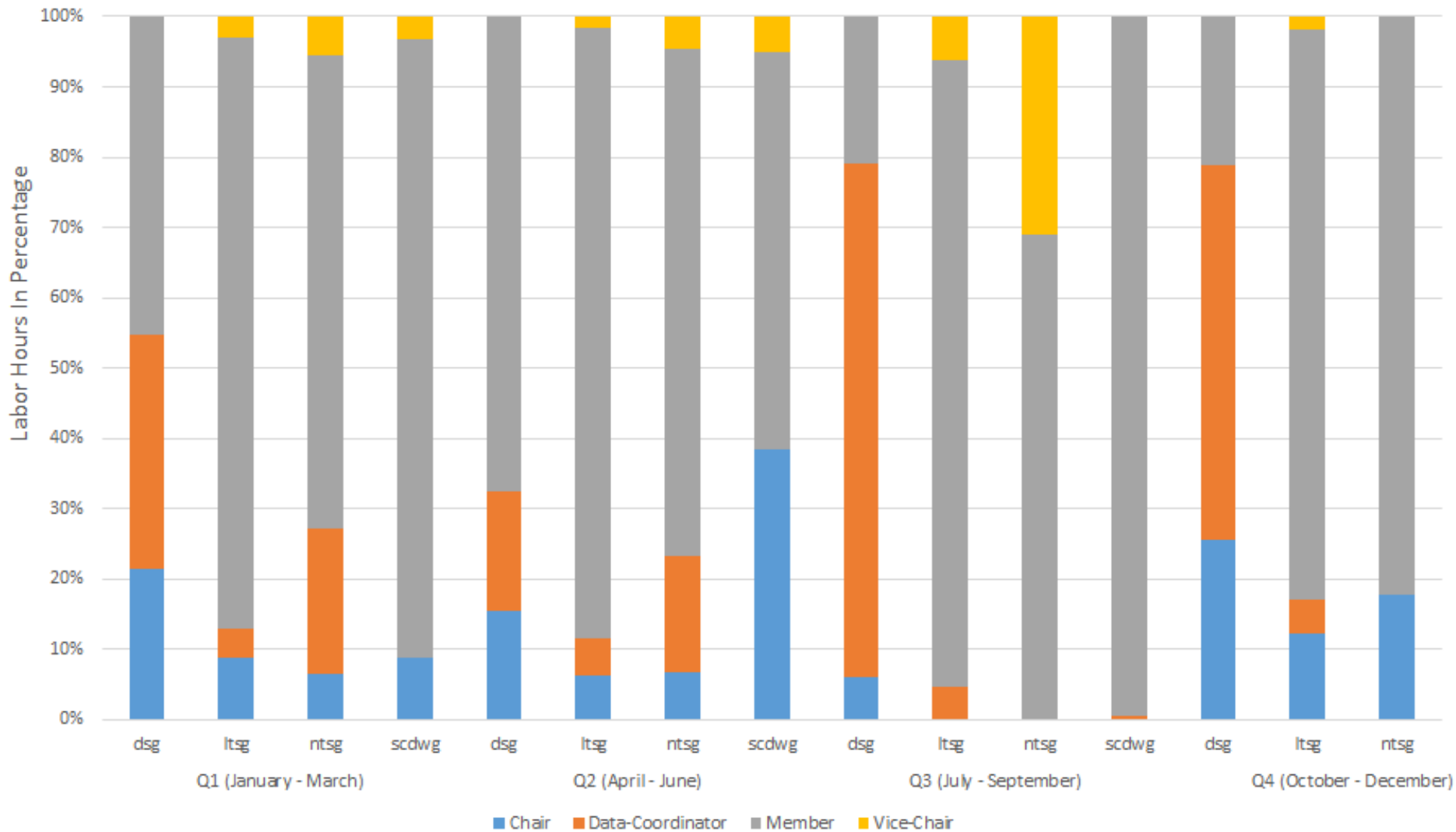


Total Quarter Hours 2016



2016 Study Group by Quarter

Comparison of Labor Hour Percentages by Role



RSSC Studies Scoping Subteam Update

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**Marjorie Parsons, TVA
RSSC Chair**

RSSC Studies Scoping Subteam

- RSSC action to review the recommendations document for upcoming studies for the NTSG and LTSG:
 - Develop recommendation(s) for RSSC for NTSG/LTSG studies and sensitivities for 2017
- Members:
 - **SERC Technical Committee Leads:** Daryl McGee (SoCo), Marjorie Parsons (TVA, RSSC Chair), Paul Simoneaux (Entergy, RSSC Vice Chair), James Normansell (TVA, LTSG Chair), Orvane Piper (Duke, LTSG Vice Chair), Brett Guy (TVA, NTSG Chair), Jack Armstrong (Duke, NTSG Vice Chair)
 - **SME:** Chuck Liebold (PJM), David Duebner (MISO), Edin Habibovic (MISO), and Philip Kleckley (SCANA)
 - **SERC staff:** Evan Shuvo (SERC Lead), Nate Davis, Joe Spencer

RSSC Studies Scoping Subteam

- Kick-off Meeting on March 2, 2017
- Request sent to NTSG and LTSG WGs to solicit ideas for new study ideas and study scenarios
- Next meeting to review responses from LTSG/NTSG members: March 14, 2017
- Team to present findings at the Summer Regional Studies meeting in July, 2017

Firm Flow Task Force (FFTF) Report




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RSSC Chair**

Firm Flow Task Force Purpose and Members

- 2016 Fall EC meeting action item:
 - Form a task force to identify and address issues facing modeling of firm interchange in the long-term and near-term study models
- Members:
 - **SERC Technical Committee Leads:** Marjorie Parsons (TVA, RSSC Chair), Paul Simoneaux (Entergy, RSSC Vice Chair) James Normansell (TVA, LTSG Chair)
 - **SME:** James Manning (NCEMC, NAESB representative), **Jack Armstrong (Duke), Bob Pierce (Duke)**, Bill Hamilton (Entergy), David Duebner (MISO), Edin Habibovic (MISO), **Alex Worcester (PJM)**
 - **SERC staff:** Evan Shuvo (SERC Lead), Nate Davis, Joe Spencer

Status Today

- LTSG has more awareness of transactions
- LTSG coordinates with neighbors and utilizes OASIS to track down known transactions 
- Due to the implementation of MOD-032 (July 1, 2016), Planning Coordinators are expected to coordinate with neighboring PCs to model transactions from ultimate source to ultimate sink 
- TPL-001-4 – Each PC creates its own sensitivities based on “expected transfers” 

Firm Flow Task Force (FFTF)

- Kick-off meeting held on November 7, 2016
- Discussion included:
 - Do we still have a problem?
 - OASIS limitations, improvement opportunities
 - Modeling firm transmission services
 - Modeling partial paths
 - Identifying source and sink
 - Training for consistency

Outstanding Issues

- OASIS is not a sufficient process tool for transmission planners to use
- Utilizing the OASIS tool for the purpose of collection and validation of transaction data would require NAESB coordination and further justification
- Discussions with the NAESB Working Group are taking place

Outstanding Issues

Even if the OASIS tools are improved for data alignment, further coordination would be:

1. **What** firm transmission services to model, and at **what level** (i.e. how do summer, winter, and light load cases vary when there is only one reservation value for the year)
2. **When and how to model partial paths**
3. **How to validate and verify** if certain transactions were modeled
4. **Steps to take** when base models do not reflect “expected” transactions
5. **Training** needs of individuals to follow a consistent strategy for all stakeholders

Next steps

- Draft FFTF report completed and reviewed by FFTF – April, 2017
- Share report with NAESB working group in April, 2017 to determine possible future improvements to process

Loop Flow Task Force (LFTF) Report

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RSSC Chair

Loop Flow Task Force Update

- EC/OC action - to determine how SERC can model loop flow impacts
- Members:
 - **SERC Technical Committee Leads:** Jack Armstrong – (Study Lead, Duke), Brett Guy (TVA), Christopher Howell (Southern), Katherine Hulet (MISO), Jason VanHuss (MISO), Jeffrey Neal (SCE&G), Yuri Smolanitsky (PJM), Levi Bennett (GTC)
 - **SME:** Marjorie Parsons – RSSC Chair (TVA), Patrick Brown (MISO), Edin Habibovic (MISO), Philip D'Antonio (PJM), Eugene Warnecke (Ameren), James Harold Thomas (Ameren), Don Reichenbach (Duke), Sammy Roberts (Duke), Christopher Wakefield (Southern), Nate Schweighart (TVA), Ulyana Pugina Elliott (TVA)
 - **SERC staff:** Evan Shuvo (SERC Lead), Nate Davis, Joe Spencer, Nancy DeLeon, David Greene

Loop Flow Task Force Update

- Phase 1 - Model an actual event in a near-term planning case – **Completed (upcoming presentation)**
- Phase 2 - Develop a methodology for studying SERC loop flows **(2017)**
- Phase 3 - Utilize the methodology in future SERC near term-studies **(2018)**

- **Jack Armstrong (Vice Chair, NTSG) will provide further details.**

Questions?