Transfer Analysis Study is driven by NERC standard FAC-013-2

• **Purpose**
  - To ensure that Planning Coordinators have a methodology for, and perform an annual assessment to identify potential future Transmission System weaknesses and limiting Facilities that could impact the Bulk Electric System’s (BES) ability to reliably transfer energy in the Near-Term Transmission Planning Horizon

• **Key Takeaways**
  - MISO and the stakeholders will develop a list of transfers and the transfer analysis parameters.
  - Transfers will be simulated as outlined within the MISO Transfer Capability Methodology, R1.2 through R1.5
Criteria used for selecting study transfers

• **Demand Forecast**: Transfers simulating increases in demand shall be conducted on MTEP 5 year out Summer case.

• **Economic Exchange of power between systems**: Transfers simulating increases in economic power will be simulated in MTEP 5 year out off-peak or light load cases as applicable.

• **Historic and Projected Transmission Usage**: Transfers simulating historic and projected transmission usage not otherwise incorporated under economic transfers will be studied in peak or off-peak cases.

• **Generation Forecast**: Transfers simulating reduced generation in specified systems where requested by Generation Owners will be included within MTEP scope upon review of planning stakeholders.
MISO Selected Transfers for MTEP18

- MH to MISO North Region
- MISO N/C to MISO East Region
- PJM N. Illinois to PJM Ohio
- MISO South Region to SPP
- MISO Central Region to AECI
- i) TVA to MISO Central Region
   ii) MISO Central Region to TVA
Schedule

- May 18th - MISO will incorporate feedback of proposed transfers
- May 21st - MISO will begin linear transfers
- Jun 12th - MISO will present linear results to PSC
- Jun 13th - MISO will finalize linear, begin voltage stability verification
- Aug. 14th - MISO will present Stability results to PSC
- Oct. 1st - MISO will post draft report for Stakeholders to review
- Nov. 1st – MISO will post final report
Schedule

- May 18\textsuperscript{th} - MISO will incorporate feedback of proposed transfers
- May 21\textsuperscript{th} - MISO will begin linear transfers

\textit{Software Snag}

- Aug. 14\textsuperscript{th} - MISO will present Stability results to PSC
- Oct. 1\textsuperscript{st} - MISO will post draft report for Stakeholders to review
- Nov. 1\textsuperscript{st} – MISO will post final report
Schedule

- May 18\textsuperscript{th} - MISO will incorporate feedback of proposed transfers
- May 21\textsuperscript{th} - MISO will begin linear transfers
- July 1\textsuperscript{st} - MISO will complete linear runs
- July 2\textsuperscript{nd} - MISO will post linear runs for review, begin VS verification
- Aug. 14\textsuperscript{th} - MISO will present linear & stability results to PSC
- Oct. 1\textsuperscript{st} - MISO will post draft report for Stakeholders to review
- Nov. 1\textsuperscript{st} – MISO will post final report
Contact Information

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Appendix
Proposed Transfers

- MH to MISO North Region
  - Rationale, Economic Exchange of Power between Systems

- PJM N. Illinois to PJM Ohio
  - Rationale, Historical usage

- MISO N/C to MISO East Region
  - Rationale, Generation Forecast

- MISO South Region to SPP
  - Rationale, Historical usage

- MISO Central Region to TVA
  - Rationale, Historical usage

- TVA to MISO Central Region
  - Rationale, Historical usage

- MISO Central Region to AECI
  - Rationale, Economic Exchange of Power between Systems
Details of Proposed Transfer

- Manitoba Hydro to MISO North Region
  - **Model Year**: 2023
  - **Season**: Summer Peak (wind @ 15%)
  - **Rationale**: Economic Exchange of Power between Systems
  - **Transfer Level**: 5,000 MW
  - **Contingencies**: Cat P1
  - **Monitored Area**: MH and MISO North Region
  - **Source**: MH
  - **Sink**: MISO North Region
Details of Proposed Transfer

- PJM N. Illinois to PJM Ohio
  - Model Year: 2023
  - Season: Summer Peak
  - Rationale: Historical Usage
  - Transfer Level: 5,000 MW
  - Contingencies: Cat P1 in Central/East Regions + CE, AEP & FE
  - Monitored Area: Illinois, Indiana and Ohio
  - Source: PJM N. Illinois
  - Sink: PJM Ohio (AEP & FE)
Details of Proposed Transfer

- **MISO North/Central to MISO East Region**
  - **Model Year**: 2023
  - **Season**: Summer Peak
  - **Rationale**: Generation Forecast
  - **Transfer Level**: 5,000 MW
  - **Contingencies**: Cat P1 in Midwest Region
  - **Monitored Area**: North, Central and East
  - **Source**: MISO North/Central Regions
  - **Sink**: MISO East Region (susp. gen)
Details of Proposed Transfer

- MISO South Region to SPP (wind @ 90%)
  - **Model Year**: 2023
  - **Season**: Shoulder LL w/ wind @ 90%
  - **Rationale**: Historical Usage
  - **Transfer Level**: 5,000 MW
  - **Contingencies**: Cat P1 in South Region + SPP
    Select Cat P3 & P6
  - **Monitored Area**: South Region + SPP
  - **Source**: MISO South Region
  - **Sink**: SPP
Details of Proposed Transfer

• MISO Central Region to TVA
  – **Model Year**: 2023
  – **Season**: Summer Peak
  – **Rationale**: Historical Usage
  – **Transfer Level**: 5,000 MW
  – **Contingencies**: Cat P1 in Central Region
    + TVA and Kentucky
  – **Monitored Area**: Central/South Region
    + SERC
  – **Source**: MISO Central Region
  – **Sink**: TVA
Details of Proposed Transfer

- TVA to MISO Central Region
  - **Model Year**: 2023
  - **Season**: Summer Peak
  - **Rationale**: Historical Usage
  - **Transfer Level**: 5,000 MW
  - **Contingencies**: Cat P1 in Central Region + TVA and Kentucky + TVA and Kentucky
  - **Monitored Area**: Central/South Region + SERC
  - **Source**: TVA
  - **Sink**: MISO Central Region
Details of Proposed Transfer

- **MISO Central Region to AECI**
  - **Model Year:** 2023
  - **Season:** Summer Peak
  - **Rationale:** *Economic Exchange of Power between Systems*
  - **Transfer Level:** 5,000 MW
  - **Contingencies:** Cat P1 in Central Region + AECI
  - **Monitored Area:** Central/South Region + SERC
  - **Source:** MISO Central Region
  - **Sink:** AECI