Thursday 1:00 p.m.

Agenda Item 1 - Administrative

The meeting was called to order at 1:00 p.m. The following Model Development Working Group (MDWG) members were in attendance:

- Scott Rainbolt, Chair – American Electric Power (AEP)
- Joe Fultz, Vice Chair – Grand River Dam Authority (GRDA)
- Reené Miranda – Southwestern Public Service (SPS)
- Dustin Betz – Nebraska Public Power District (NPPD)
- Mo Awad – Westar Energy (WR)
- Nate Morris – Empire District Electric (EDE)
- Mike Clifton – Oklahoma Gas & Electric (OGE)
- Scott Schichtl – Arkansas Electric Cooperative (AECC)
- John Boshears – City Utilities of Springfield (CUS)
- Jason Shook – GDS Associates (GDS)

SPP Staff in attendance included Anthony Cook (Secretary), John Mills, Kelsey Allen, Scott Jordan, Greg Sorenson (RE), and Doug Bowman.

The following guests were also in attendance:
- John Payne – Kansas Electric Power Cooperative (Kepco)
- Liam Stringham – Sunflower Electric Power Corporation (SEPC)
- Racheal Ren – Kansas City Power & Light (KCPL) – Proxy for Brian Wilson
- John Lane – Western Farmers Electric Cooperative (WFEC)
- John Mayhan – Omaha Public Power District (OPPD)

(Attachment 1 – Attendance List.pdf)

New Members
Scott Rainbolt announced Nate Morris and Nathan McNeil as new members to the MDWG.

Meeting Agenda
The agenda was reviewed by the group. Scott Schichtl motioned to approve the agenda as is; Mo Awad seconded the motion. The motion passed unopposed (Attachment 2 - MDWG Agenda 20100805.doc).
Meeting Minutes
Nate Morris motioned to approve the previous meeting minutes; Scott Schichtl seconded the motion. The March 1st minutes were approved unopposed (Attachment 3 - MDWG Minutes 20100301.doc).

Agenda Item 2 – Review of Past Action Items

Anthony Cook reviewed action items that are currently in progress or have been completed since the March 1st meeting. Anthony Cook asked for clarification of action item #1. Jason Shook stated the action item was to inquire if the summer shoulder load of 85% of the summer peak load is a valid value. Anthony discussed progress on item #10 and Kelsey Allen asked that members check their area generators and remove any that are in the MOD base case but not in-service. Staff discussed item #30 in further detail. The group expressed interest in having more involvement in review and/or development of generation and transmission plans for the 20 year study model, in addition to the load forecasts already requested of them.

Action Item: Send notice to all modeling contacts reminding members of their obligation to adhere to the remote generation modeling procedure. (SPP Staff)

Action Item: Modeling staff will inform Planning staff that the MDWG would like more involvement in review and/or development of generation and transmission plans for the 20 year study model. (SPP Staff)

Agenda Item 3 – 2010 Series Stability Model Update:

Scott Jordan gave an update on the status of the 2010 series stability models. He said the models will be received by August 20, 2010 and he will work to get them out as soon as possible. These models are delayed because of the delay of posting the final MDWG B1 powerflow models and adding wind farm topology granularity.

Agenda Item 4 – 2011 Series Schedule:

Powerflow and Dynamics
Anthony Cook reviewed the proposed schedule. Scott Schichtl asked if the load date submission date matters as long as it is turned in once a year. It is required for Build 1 models because they are new year models. John Payne added that he submits updated load forecasts via NITS application updates every October to meet Tariff requirements. Greg Sorenson commented that mitigation plans submitted need to be usable for real-time. Dustin Betz and Scott Rainbolt commented that these mitigation plans are used for model validation and not for NERC compliance. Reené Miranda asked why N-1 analysis is required for Build 1 models instead of Build 2 models. Doug Bowman said he will look into the SPP Criteria and the MDWG procedure manual requirements to determine which model build set requires the N-1 analysis and mitigation plans. John Payne suggested staff add a list of what the final Build 1 models are used for to the data request email. Anthony Cook suggested building the models in PSSE version 30, as
well as version 32 until September, which is when the MMWG votes to move to version 32 or not. Mo Awad motioned for approval of the full Powerflow and Dynamics schedule with the option to change dates pertaining to mitigation plan submittal, AC analysis, and the model update meeting in Little Rock. Mike Clifton seconded the motion. The motion passed unanimously.

Short Circuit
A schedule was not proposed from SPP staff for short circuit models for the 2011 series build. Anthony Cook added that the Short Circuit white paper states that the model build schedule should coincide with the schedule of the powerflow model build. Anthony also suggested the short circuit model build for the 2011 series should begin with the build 2 process of the powerflow model build schedule; however, at least two passes are needed to work through any issues.

Action Item: Determine which model build set N-1 analysis and mitigation plans are required. (Doug Bowman)
Action Item: Staff to add a list of what the final Build 1 models are used for to the data request email. (Staff)
Action Item: Send out notification of MMWG vote on PSSE version 32 after MMWG meeting in September. (Anthony Cook)

Agenda Item 5 – 2011 Series Model Set:

Powerflow
Kelsey Allen discussed the differences of building cases based on the MMWG provided models or the proposed MMWG model set. The MMWG increased their model set by 1 year for the 2011 series models. Mo Awad motioned to increase the MDWG model set by 1 year and add a 2013 spring case for the MDWG 2011 series powerflow model set. Reené Miranda seconded the motion. Dustin Betz requested a 2022 winter model. Mo amended his motion to add a 2022 winter model to the MDWG 2011 series powerflow model set. The motion passed unopposed.

Dynamics
Scott Rainbolt expressed interest in a 10 year stability model. Discussion arose about the cost and scheduling impact of adding more dynamic models. Scott Jordan accepted the responsibility to determine such impact. This item will be tabled until Scott gathers the necessary information.

Action Item: Determine the cost and schedule impact of additional dynamic models. (Scott Jordan)

Scott Schichtl motioned to adjourn the meeting and to move Friday’s meeting start time to 8:30 a.m. Dustin Betz seconded the motion. Motion passed unopposed.

Chair adjourned the meeting at 5:00 p.m.

Chair reconvened at 8:30 a.m. Friday.
Agenda Item 5 continued – 2011 Series Model Set:

**Short Circuit**
Scott Rainbolt discussed having short circuit models for every powerflow model. Anthony Cook suggested only producing one or two models as test models for the 2011 series. The Short Circuit white paper states having present year and plus two year models. Mo suggested tabling the decision so that everyone can discuss the issue with their company short circuit personnel.

**Action Item:** Discuss short circuit needs with company personnel. (MDWG members)

Agenda Item 6 – MDWG Procedure Manuals:

Anthony Cook reviewed the MDWG Powerflow Manual changes that Staff was proposing. Anthony asked if section E, “Power Flow Development Manual Changes”, can be made into an appendix of the powerflow procedure manual. Scott Rainbolt suggested making it an appendix and adding change dates to each topic. Reené Miranda asked if hyperlinks can be added to direct the reader to SPP.org for documents that are referenced in the manual. He also asked if the model building schedule and model set list can be joined into one document. Anthony Cook took the task of reformatting the powerflow procedure manual and adding hyperlinks. Kelsey Allen will combine the schedule and model set list into one document.

**Action Item:** Reformat the MDWG procedure manual and add hyperlinks for referenced documents. (Anthony Cook)

**Action Item:** Combine the MDWG model building schedule and model set list into one document. (Kelsey Allen)

Agenda Item 7 – MOD:

**Maintenance**
Kelsey Allen discussed the importance of maintaining MOD. He stated that PTI was given the SPP database to analyze and they suggested purging data to minimize the size of the database. Kelsey asked the group for an acceptable time frame to purge the data. Nate Morris asked if projects are backed up or if they will be lost forever. Kelsey added that all MOD projects are backed up. Mo Awad suggested purging data on a monthly basis. The group agreed to Mo’s suggestion.

Kelsey then explained the problems associated with keeping modeling data, external to SPP, in MOD that may not get updated and suggested deleting it. Dustin Betz asked if a load can be added to an external bus if it is not in the database and the validation errors that might be produced. Kelsey asked the members about zone updates for members with load on other systems and stressed that SPP can not change other region’s data. The members need to coordinate these changes with the other regions. Anthony Cook
discussed SPP staff reviewing MOD projects that contain regional ties and using the information to update the Master Tie Line (MTL) file for the members.

**Action Item:** Investigate if MOD will allow a load to be added to an external bus that is not in the database, and the validation errors that might arise. (Kelsey Allen)

**Recap of New Features**
Kelsey Allen briefly discussed the new features of MOD version 7.

**Expectations**
Anthony Cook discussed staff’s responsibility of uploading the master profiles of the models into MOD when the models are posted. Members are to supply profiles through MOD by amending the master profile, as well as, make sure projects are complete with all necessary data. Reenée Miranda asked if SPP staff can clean up the list of profiles currently in MOD. Kelsey Allen agreed to reduce the list. Kelsey asked about updating MOD with ownership data and how that data will be updated. Scott Rainbolt expressed concern with the amount of work involved in updating ownership data for his area. Joe Fultz asked if an AEPW bus will show up on the GRDA load tab if filtered by GRDA owner. Scott Schichtl answered that it should. Kelsey suggested providing some files for a bulk update.

**Action Item:** Clean up the profile list currently in MOD. (SPP Staff)

**Agenda Item 8 – Line Mileage and Ownership:**
Anthony Cook discussed the task that Liz Coffield (SPP intern) was given to gather line mileage and ownership data. The majority of data has been compiled and a project will be uploaded into MOD. Reenée Miranda asked about “name” field for branches in PSSE. Anthony discussed how PTI prioritizes requests and that they are aware of this request. Reenée also requests that PTI add a generator code to indicate outages and not just in-service or out-of-service. Scott Rainbolt asked if the Compliance and Participation workbook can be finalized. Anthony agreed to send out a final workbook.

**Action Item:** Send out final Compliance and Participation workbook. (Anthony Cook)

**Agenda Item 9 – Model Improvement Task Force:**
Kelsey Allen discussed the MITF White Paper. It was decided that the MDWG members need to supply comments on the MITF White Paper to Kelsey by August 27, 2010. The MDWG will vote on the white paper at the next meeting.

**Action Item:** MDWG members need to supply any comments on the MITF White Paper to Kelsey by August 27, 2010. (MDWG)

**Action Item:** Discuss with Entergy about SPP members modeling load with zero impedance lines. (SPP Staff)
**Agenda Item 10 - Other:**

Reené Miranda asked how stability load data is converted in the existing stability models and if the current method is too conservative. John Boshears added that the previous method was to use the national average. Scott Jordan will determine if the current method of converting stability load data is too conservative. This may require feedback from the transmission planners depending upon the types of loads represented at certain buses.

**Action Item:** Determine the standards for stability load data. (Scott Jordan)

Reené Miranda asked if SPP can edit the docucheck program so that unnecessary checks are removed. Anthony Cook requested the members to provide specific changes they would like to see implemented. Reené also requested use of if SPP would provide the program to the modeling contacts for their use.

**Action Item:** MDWG members to supply docucheck changes to staff. (MDWG)

**Action Item:** Provide updated docucheck program to modeling contacts. (SPP Staff)

**Agenda Item 11 - Closing Administrative Duties:**

**Next Meeting:**
The next meeting will be a conference call to be held on Wednesday, September 8, 2010 from 9:00 a.m. to 11:30 a.m.

**Upcoming Meetings/Topics:**
Which model build set N-1 analysis and mitigation plans are required
Cost/schedule impact for additional dynamic models
Standard for stability load data
Dynamics model set
Short Circuit model set
MOD matrix
Status of zone update
MITF white paper comments
December Modeling meeting

**Summary of New Action Items**
1. Determine which model build set N-1 analysis and mitigation plans are required. (Doug Bowman)

2. Staff to add a list of what the final Build 1 models are used for to the data request email. (Staff)

3. Send out notification of MMWG vote on PSSE version 32 after MMWG meeting in September. (Anthony Cook)
4. Determine the cost and schedule impact of additional dynamic models. (Scott Jordan)

5. Discuss short circuit needs with company personnel. (MDWG members)

6. Reformat the MDWG procedure manual and add hyperlinks for referenced documents. (Anthony Cook)

7. Combine the MDWG model building schedule and model set list into one document. (Kelsey Allen)

8. Determine if MOD will allow a load to be added to an external bus that is not in the database and what validation errors might arise. (Kelsey Allen)

9. Clean up the profile list currently in MOD. (SPP Staff)

10. Send out final Compliance and Participation workbook. (Anthony Cook)

11. MDWG members need to supply any comments on the MITF White Paper to Kelsey by August 27, 2010. (MDWG Members)

12. Discuss with Entergy about SPP members modeling load with zero impedance lines. (SPP Staff)

13. Determine the proper conversion methodology for stability load data. (Scott Jordan)

14. MDWG members to supply docucheck changes to staff. (MDWG Members)

15. Provide updated docucheck program to modeling contacts. (SPP Staff)

(Attachment 4 - SPP MDWG Action Items 20100805.xls)

Adjourn Meeting
Mo Awad motioned to adjourn the meeting; Reené Miranda seconded the motion. With no further business to discuss, the MDWG meeting was adjourned at 12:00 p.m.

Respectfully submitted,
Anthony Cook
SPP Staff
Gentlemen,

I will be out of town on vacation and will not be attending the August 5-6 MDWG meeting. Racheal Ren will be attending the meeting and will have my proxy. Let me know if you have any questions.

Take Care,
Brian
## Attendance List

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jason Shock</td>
<td>GDS/ETEC</td>
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<tr>
<td>Greg Siffler</td>
<td>SPP RE</td>
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<td>Mike Clifton</td>
<td>OX GIZ</td>
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<td>John Payne</td>
<td>KRR</td>
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<td>John Mills</td>
<td>SPP</td>
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<td>Anthony Cink</td>
<td>SPP</td>
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<td>Scott Rainbolt</td>
<td>AEP</td>
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<td>John Lane</td>
<td>WFEC</td>
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<td>Mo Awad</td>
<td>Westar Energy</td>
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<td>Recoe Miranda</td>
<td>SPS</td>
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<td>Nate Morris</td>
<td>EDE</td>
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<td>Kelsey Allen</td>
<td>SPP</td>
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<td>Liam Stringham</td>
<td>Sunflower Electric</td>
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<td>Dustin Betz</td>
<td>NPPD</td>
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<tr>
<td>Scott Schichtl</td>
<td>AEC</td>
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<tr>
<td>Rachael Ren</td>
<td>KCP&amp;L</td>
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<tr>
<td>Doug Beamann, Josh Jordan, John Bestor, John Mayhan (Phone), Joe Giltze</td>
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</tbody>
</table>
Thursday 1:00 p.m. – 5:00 p.m.

1. Administrative ..................................................................................................................... Scott Rainbolt
   a. Call to order
   b. Introduction of new members
   c. Proxies
   d. Approve agenda
   e. Approve minutes of previous meetings

2. Review of Past Action Items .............................................................................................. Anthony Cook

3. 2010 Series Stability Model Update ..................................................................................... Scott Jordan

4. 2011 Series Schedule .......................................................................................................................... All
   a. Power Flow
   b. Dynamic
   c. Short Circuit

5. 2011 Series Model Set ......................................................................................................................... All
   a. Power Flow
   b. Dynamic
   c. Short Circuit

6. MDWG Procedure Manuals .................................................................................................................. All
   a. Power Flow
      i. AC Contingency Analysis Model Set
      ii. Edits
   b. MODWeb

7. MOD .................................................................................................................................... Kelsey Allen
   a. Maintenance
      i. Data purging
      ii. External modeling data
   b. Recap of New Features
   c. Expectations

8. Line Mileage and Ownership ............................................................................................. Anthony Cook
Friday 8:00 a.m. – 12:00 p.m.

9. Model Improvement Task Force................................................................. Kelsey Allen

10. Other................................................................................................................ All

11. Closing Administrative Duties................................................................. Scott Rainbolt
   a. Next meeting place and date
   b. Next meeting topics
   c. Upcoming meetings and topics
   d. Review of Action Items (Anthony Cook)
   e. Adjourn meeting
Southwest Power Pool
MODEL DEVELOPMENT WORKING GROUP
March 1, 2010
1:00 p.m. – 5:00 p.m.
SPP Chenal Office, Little Rock, AR

– M I N U T E S –

Agenda Item 1 - Administrative

The meeting was called to order at 1:00 p.m. The following Model Development Working Group (MDWG) members were in attendance:

Scott Rainbolt, Chair – American Electric Power (AEP)
Joe Fultz, Vice Chair – Grand River Dam Authority (GRDA)
Reené Miranda – Southwestern Public Service (SPS)
Dustin Betz – Nebraska Public Power District (NPPD)
Mo Awad – Westar Energy (WR)
Brian Wilson – Kansas City Power & Light (KCPL)
Mike Clifton – Oklahoma Gas & Electric (OGE)
Scott Schichtl – Arkansas Electric Cooperative (AECC)
John Boshears – City Utilities of Springfield (CUS)
Jason Shook – GDS Associates (GDS)

SPP Staff in attendance included Anthony Cook (Secretary) Doug Bowman, Scott Jordan, Greg Sorenson (RE), and Kelsey Allen.

The following guests were also in attendance:

Ryan Einer – Oklahoma Gas & Electric (OGE)
Al Tamimi – Sunflower Electric Power Corporation (SEPC)
Nate Morris – Empire District Electric (EDE)
Mark Loveless – Oklahoma Municipal Power Authority (OMPA)
Doug Millner – Western Farmers Electric Cooperative (WFEC)
Jason Bentz – American Electric Power (AEP)
Erick Kasalika – Westar Energy (WR)
David Sargent – Southwestern Power Administration (SWPA)
Dave Dieterich – Omaha Public Power District (OPPD)
John Mayhan – Omaha Public Power District (OPPD)
John Shipman

(Attachment 1 – Attendance List 1.pdf)
(Attachment 2 – Attendance List 2.pdf)
Meeting Agenda
The agenda was reviewed by the group. Scott Schichtl motioned to approve the agenda as is; Joe Fultz seconded the motion. The agenda was approved unopposed (Attachment 3 - MDWG Agenda 20100301.doc).

Meeting Minutes
Mo Awad motioned to approve the previous meeting minutes; Joe Fultz seconded the motion. The January 7th (Attachment 4 - MDWG Minutes 20100107.doc) and January 25th (Attachment 5 - MDWG Minutes 20100125.doc) minutes were approved unopposed.

Agenda Item 2 – Review of Past Action Items
Kelsey Allen reviewed action items from the January 25th meeting. All items from that meeting are complete. Scott Rainbolt asked staff for an update on Action Item #30. This item is still in progress and will be looked into.

Agenda Item 3 – 2010 Series Model Update:

Powerflow
Staff discussed the proposed changes to the MDWG model building schedule due to the powerflow model delays. Staff suggested sliding the completion date forward in the amount of the Build 1 delays. This will not affect any processes since the next deadline following the Build 2 completion is the data submittal to MMWG on July 15th. The group requested that staff update the schedule to reflect the proposed changes.

Action Item: Update the MDWG 2010 Series Build 2 powerflow schedule to reflect the delays of the Build 1 models and the new proposed completion date. (SPP Staff)

Dynamics
Scott Jordan informed the group of his plans to adjust the dynamics schedule to reflect the powerflow modeling delays. The data submission schedule will not be cut; staff will compress its working time to meet scheduled deadlines. Dynamics data submission due date will be a month after the final powerflow models are posted. Scott will revise the dynamics schedule to reflect these changes.

Agenda Item 4 – Short Circuit Task Force:

Task Force Future
Doug Bowman posed the question regarding the future of the Short Circuit Task Force (SCTF) to the group. Discussion ensued on whether to keep the group intact, disband the group, or create a Short Circuit Working Group. The SCTF had discussed internally about at least staying intact until the first set of Short Circuit models are developed. Scott Rainbolt suggested leaving the task force together through one cycle of recommendations (put forth in the SCTF Whitepaper). Joe Fultz agreed. John
Boshears suggested creating a working group, as planners do not typically deal with short circuit data. Discussion continued on data formats and the deadline for creating a short circuit model. Anthony Cook posed that keeping the task force will be sufficient and suggested re-evaluating the need for a working group in the future.

**Modeling of Region Ties**

Doug Bowman will be heading the effort to develop a short circuit model and touched on the modeling of region ties. He has been in contact with SERC, who will be providing equivalenced short circuit data to SPP. He informed the group that he will be asking affected members for verification of this data.

**Agenda Item 5 – Data Submission Issues:**

Doug Bowman discussed the issues staff has been having with the Build 1 powerflow models in relation to generation dispatch and urged that members begin submitting profiles in MOD from now on. Kelsey Allen stated that the MDWG had originally decided to move towards this goal with the 2010 Series Build 2 models but that with the new profile information included in MOD version 7 this may not be completely feasible. Since MOD 7 will not be set up on the production server before SPP needs any updated data to begin building the 2010 Series STEP models, the data submission for the MDWG Build 2 models may need to be a mix and match of idev submissions and profile data submitted directly to MOD. A folder on TrueShare needs to be set up for data submissions.

Joe Fultz brought up an issue concerning regional ties, stating that the data swap SPP performed with AECI last year changed some of his modeling data. Anthony Cook suggested that SPP’s implementation of the MMWG Master Tile Line file and procedure should take care of any regional tie issues. Kelsey Allen also mentioned the external case feature in MOD version 7 and supposed that it would also help alleviate any errors for future case builds.

**Action Item:** Create a new folder on TrueShare for 2010 Series Build 2 powerflow model profile and transaction data. (SPP Staff)

**Agenda Item 6 – MMWG Docucheck and Powerflow Database:**

Staff included this item to spark discussion on their decision to use the MMWG developed Docucheck and Powerflow Database programs for data error reporting and implementing the Master Tie Line file for regional tie modeling. Anthony Cook explained that for SPP, the data included in the Docucheck output may not be actual modeling errors but a report regarding model cleanliness, but stressed that the MMWG will expect that these “errors” be cleaned up when SPP submits data to that group in July. Staff asked the members for feedback regarding these programs. Reené Miranda and Ryan Einer both said the reports have been helpful. Reené did note some minor errors in the reporting such as flagging Vhi = Vlo as an error for switched shunts even when they are fixed.
Kelsey Allen continued discussion and touched on the possible changes to these current processes due to MOD version 7. He stated that the use of multiple sources of data to develop a powerflow model leaves much room for error. He stressed that the more members and staff can utilize the MOD database, the more robustness we will have in our models. He also urged members to comment on the programs we use and don’t hesitate to suggest new features, as PTI is open to working with us to develop the tools the way we need them to be. He also re-iterated what Scott Rainbolt had mentioned in a previous meeting regarding SPP members to attend the PTI Users group meeting to help voice opinions. This year’s meeting will be held the first week in San Antonio, TX.

PSS/E improvement: Create another generator status denoting maintenance outages.

**Agenda Item 7 – MDWG Membership:**

Staff briefly updated the entire group on the status of MDWG membership regarding the two spots currently open and urged those non-members present to consider submitting an application for voting membership.

**Agenda Item 8 – MITF Update:**

Kelsey Allen provided an update on the history of the MITF for those new to MDWG discussion, and the current progress of that task force. The MITF, consisting of MDWG and TWG members, was created to identify improvement and develop process guidelines in order to create a common base model set within SPP planning. The task force is currently working through and discussing the items put forth by staff in a straw man document.

**Agenda Item 9 – 2010 STEP Model Data:**

Kelsey Allen provided an update on the 2010 STEP model build staff is preparing to undertake and alerted the group of a coming request for dispatch order updates for that model set. Staff has prepared a request for dispatch orders and will ask the MITF to vet it on their call Monday, March 8. These will then be sent out to each modeling contact next week. He also informed the group that the deadline for STEP data submission will not be moved with the other deadlines for the MDWG Build 2 models in order to meet the proposed goal of STEP model completion in April.

**Other:**

Reené Miranda asked staff about the process of updating the new approved owner and zone ranges. Kelsey Allen described the process SPP IT will implement in making those changes for the members. Kelsey has requested that all modeling contacts submit a simple one-for-one translation table for staff to compile and provide to SPP IT. IT staff will create scripts to run on the MOD oracle database to search through all database
tables for those zones and owners to be changed within certain data types. This process will be applicable to both the MOD network data and MOD projects.

Greg Sorensen informed the group of FERC’s approval of new modeling standards to be implemented in 2011. These are revisions to existing standards MOD 001-1, MOD 004-1, MOD 008-1, MOD 028-1, MOD 029-1, and MOD 030-2 that will take effect April 1, 2011.

**Action Item**: Review the new MOD standards approved by FERC and how they will apply to the MDWG and SPP planning modeling. (SPP Staff)

**Agenda Item 10 - Closing Administrative Duties:**

**Next Meeting:**
To be determined until more issues arise. Topics: MOD Standards.

**Upcoming Meetings/Topics:**
August face meeting in conjunction with the TWG.
December Modeling meeting.

**Summary of New Action Items**
1. Update the MDWG 2010 Series Build 2 powerflow schedule to reflect the delays of the Build 1 models and the new proposed completion date. (SPP Staff)
2. Create a new folder on TrueShare for 2010 Series Build 2 powerflow model profile and transaction data. (SPP Staff)
3. Review the new MOD standards approved by FERC and how they will apply to the MDWG and SPP planning modeling. (SPP Staff)

(Attachment 6 - SPP MDWG Action Items 20100301.xls)

**Adjourn Meeting**
Reené Miranda motioned to adjourn the meeting; Scott Schichtl seconded the motion. With no further business to discuss, the MDWG meeting was adjourned at 2:38 p.m.

Respectfully submitted,
Kelsey Allen
SPP Staff
<table>
<thead>
<tr>
<th>Action Item</th>
<th>Responsible Parties</th>
<th>Date Originated</th>
<th>Progress</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ask SPP Operations to derive the average coincident peak value for SPP System during the 4 month summer</td>
<td>Anthony Cook</td>
<td>5/19/2009</td>
<td>Incomplete</td>
<td>Is the 85% accurate for the summer shoulder model?</td>
</tr>
<tr>
<td>2. SPP Staff will add the NERC TPL (Transmission Planning) and MOD (Modeling, Data, and Analysis) Standards that are applicable to each required item in the SPP Compliance Template Form</td>
<td>Anthony Cook</td>
<td>8/7/2009</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>3. Members are to ensure that all generation conform to the Remote Generation Modeling Procedure beginning with the second build of the 2010 Model Series</td>
<td>Modeling Contacts</td>
<td>8/7/2009</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>4. Staff will add a member editing process to the Master Tie Line Procedure</td>
<td>Anthony Cook</td>
<td>9/16/2009</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>5. Staff will determine a deadline for enforcing NE short circuit compliance once the Short Circuit Task Force has an approved schedule for producing a short circuit model</td>
<td>Anthony Cook</td>
<td>9/16/2009</td>
<td>Complete</td>
<td>Due date is March 1, 2011</td>
</tr>
<tr>
<td>6. Staff will add MOD project names to the generator Workbook</td>
<td>Anthony Cook</td>
<td>9/16/2009</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>7. Staff will add a member editing process for the SPP Data Submittal Form to the MDWG Powerflow Manual</td>
<td>Anthony Cook</td>
<td>9/16/2009</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>8. Staff will update the Web Based Power Flow Model Development Procedure Manual after MOD version 7 has been released and installed on the production server</td>
<td>SPP Staff</td>
<td>11/17/2009</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>9. Staff will talk to PTI to come up with a solution for the transformer errors and report back to the group in the December meeting</td>
<td>SPP Staff</td>
<td>11/17/2009</td>
<td>Complete</td>
<td>This item has been resolved. One issue was in relation to profiles and the post-processing models and eventually corrected itself. Mutual sequence data is still missing from the MOD base case and needs to be added.</td>
</tr>
<tr>
<td>10. Staff to post more flexible documents such as the contact list, yearly model set, and schedule on the SPP website and remove from the powerflow manual</td>
<td>SPP Staff</td>
<td>11/23/2009</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>11. Staff will talk to the ESWG secretary for more information about MDWG involvement in the ITP process</td>
<td>SPP Staff</td>
<td>1/7/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>12. Review the new MOD standards approved by FERC and how they will apply to the MDWG and SPP planning modeling</td>
<td>SPP Staff</td>
<td>3/1/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>13. Send notice to all modeling contacts reminding members of their obligation to adhere to the remote generation modeling procedure</td>
<td>SPP Staff</td>
<td>3/5/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>14. Modeling staff will inform Planning staff that the MDWG would like more involvement in review and/or development of generation and transmission plans for the 20 year study model</td>
<td>SPP Staff</td>
<td>3/5/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>15. Determine which model build set N-1 analysis and mitigation plans are required</td>
<td>Doug Bowman</td>
<td>3/5/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>16. Staff to add a list of what the final Build 1 models are used for to the data request email</td>
<td>SPP Staff</td>
<td>3/5/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>17. Send out notification of MMWG vote on PSSE version 32 after MMWG meeting in September</td>
<td>Anthony Cook</td>
<td>3/5/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>18. Determine the cost and schedule impact of adding more dynamic models and how the budgeting process details</td>
<td>Scott Jordan</td>
<td>3/5/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>19. Discuss short circuit needs with company personnel</td>
<td>MDWG Members</td>
<td>3/6/2010</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Task Description</td>
<td>Responsible</td>
<td>Due Date</td>
<td>Status</td>
</tr>
<tr>
<td>---</td>
<td>----------------------------------------------------------------------------------</td>
<td>-------------</td>
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<td>----------</td>
</tr>
<tr>
<td>50</td>
<td>Reformat the MDWG procedure manual and add hyperlinks for referenced documents</td>
<td>Anthony Cook</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>51</td>
<td>Combine the MDWG model building schedule and model set list into one document</td>
<td>Kelsey Allen</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>52</td>
<td>Determine if MOD will allow a load to be added to an external bus that is not in the database and what validation errors might arise</td>
<td>Kelsey Allen</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>53</td>
<td>Clean up the profile list currently in MOD</td>
<td>SPP Staff</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>54</td>
<td>Send out final Compliance and Participation workbook</td>
<td>Anthony Cook</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>55</td>
<td>MDWG members need to supply any comments on the MITF White Paper to Kelsey by August 27, 2010</td>
<td>MDWG Members</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>56</td>
<td>Discuss with Entergy about SPP members modeling load with zero impedance lines</td>
<td>SPP Staff</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>57</td>
<td>Determine the standards for stability load data</td>
<td>Scott Jordan</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>58</td>
<td>MDWG members to supply docucheck changes to staff</td>
<td>MDWG Members</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
<tr>
<td>59</td>
<td>Provide updated docucheck program to modeling contacts</td>
<td>SPP Staff</td>
<td>3/6/2010</td>
<td>In Progress</td>
</tr>
</tbody>
</table>