1. **ADMINISTRATION**

The Task Force was asked to approve draft minutes for the October 22, 2012 meeting. The minutes were approved as written.

2. **WIND LOST OPPORTUNITY COSTS**

Mr. Ma will reviewed questions and answers regarding wind lost opportunity cost. Mr. Schuyler added that PJM wind training materials will be updated to include examples of wind lost opportunity cost calculations and the information presented by Mr. Ma.

3. **WIND FARM CURTAILMENTS (1:15-1:25)**

Mr. Baizman provided three scenarios where an operator might need to take manual action: 1) constraints that do not bind properly in SCED, 2) constraints near the MISO interface where there
is rapid change, which are particularly difficult to predict with certainty, and 3) severe violations that must be controlled faster than is possible with SCED.

Mr. Baizman referenced Manual 12 for information regarding transmission constraints/procedures.

Action items for PJM are 1) identify which stakeholder group should address seams issues between MISO and PJM, and how manual curtailments should be handled; and 2) determine if generation transfers between MISO and PJM are tagged transactions that can be curtailed. A stakeholder requested a presentation at a future IRTF meeting on PJM's market efficiency analysis.

4. **WIND FARM DISPATCH (1:25-1:40)**

Mr. Schweizer provided an update regarding the data he is reviewing that was received from PJM Markets group, and PJM information on the number of wind farms that are dispatchable. Mr. Schweizer will provide additional analysis at the next IRTF after he analyzes EconMin, EconMax, and fixed gen flags data.

5. **REACTIVE CAPABILITY TESTING**

Mr. Dropkin reviewed the updated draft of Manual 14D revisions for Reactive Capability Testing, incorporating NGOUG suggested clarifications. These changes will be reviewed at the January NGOUG meeting and then other applicable PJM committees later in January.

6. **WIND CAPACITY VALUE CALCULATIONS**

Mr. Falin reviewed the results of annual wind capacity value calculations performed in accordance with PJM Manual M21 Appendix B. In 2010 the calculation was changed to exclude Summer Peak Hours where PJM directed the wind resource to reduce its output. For 2010 and 2011, PJM needed to rely on dispatcher logs and otherwise reported curtailments to determine those hours when curtailments occurred. Starting in 2012, PJM has a better method because a more automated process is able to utilize the curtailment flag. Mr. Falin explained that negative numbers indicate lower capacity credits and positive numbers indicate higher capacity credits. The average wind capacity value is approximately one percent lower when curtailment hours are excluded. Wind farm owners have been notified of any capacity value changes so they can apply a "capmod" in eRPM.

7. **INTEGRATION OF WIND PRODUCTION FORECASTING**

Ms. Lukach referenced IRTF charter for reason to revisit the process for addressing the issue of wind power forecasting costs and operating reserve charges. Ms. Lukach provided option matrix design for review in order to create solution packages that could be reviewed at next IRTF meeting. If there is IRTF consensus in February, the approved package would then go to the MIC.
8. **PJM RENEWABLE INTEGRATION STUDY: BEST PRACTICES REPORT**

Mr. Porter (Exeter Associates) presented highlights from the PJM Renewable Integration Study report on Best Practices from Other Markets.

9. **INTERCONNECTION STANDARDS FOR VARIABLE ENERGY RESOURCES**

Mr. Patel reviewed the NERC IVGTF Task 1-3 Report: Interconnection Requirements for Variable Generation and communicated that this is a good resource for what PJM should consider.

10. **PHASOR MONITORING UNITS FOR GENERATORS**

Ms. Huang provided an update on discussions taking place at the PMU subgroup of the Planning Committee and explained that the Planning Committee is considering changes to the ISA and PJM Manuals to add an explicit requirement to install phasor monitoring units. Options matrix was to be completed on 12/19, with a report to the Planning Committee for solution voting in Feb 2013, then to any additional committees including the MRC. Materials are available for review on PC web page.

**INFORMATIONAL SECTION**

11. **WIND POWER STATISTICS**

The Wind Power Statistics report will be posted to the IRTF Website.

12. **FUTURE AGENDA ITEMS**

13. **FUTURE MEETINGS**

<table>
<thead>
<tr>
<th>Date</th>
<th>Meeting Type</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, February 13, 2013</td>
<td>PJM Conference Call</td>
<td>1:00-3:00</td>
</tr>
<tr>
<td>Wednesday, April 17, 2013</td>
<td>PJM Conference Call</td>
<td>1:00-3:00</td>
</tr>
<tr>
<td>Monday, June 17, 2013</td>
<td>PJM Conference Call</td>
<td>1:00-3:00</td>
</tr>
<tr>
<td>Wednesday, August 14, 2013</td>
<td>PJM Conference Call</td>
<td>1:00-3:00</td>
</tr>
<tr>
<td>Monday, October 21, 2013</td>
<td>PJM Conference Call</td>
<td>1:00-3:00</td>
</tr>
<tr>
<td>Wednesday, December 18, 2013</td>
<td>PJM Conference Call</td>
<td>1:00-3:00</td>
</tr>
</tbody>
</table>

**Anti-trust:**
You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

**Code of Conduct:**
As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants’ responsibilities and rules regarding the dissemination of meeting discussion and materials.
Public Meetings/Media Participation:
Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that “detailed transcriptional meeting notes” and white board notes from “brainstorming sessions” shall not be disseminated. PJM Members are also not allowed to create audio, video or online recordings of PJM meetings.