



Stakeholder Meeting Minutes May (22-23) 2008

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Southwest Power Pool

DAY 1 - ITO LG&E/KU Stakeholder Meeting Agenda

9:00 AM – 5:00 PM EPT – May 22, 2008 – Hyatt Regency Louisville, 320 Jefferson Street, Louisville, KY

Conference Call – (1-866-862-6194) (Pass code: 7922355)

• MINUTES •

Agenda Item 1 – Administrative Items

SPP Chair Bruce Rew called the meeting to order at 9:00 AM EST. Logistics were discussed and the following members, who were in attendance or represented by proxy, introduced themselves:

Keith Yocum – E.ON-US
Brent Ingebrigtsen – E.ON-US
Keith Steinmetz – E.ON-US
Charlie Freibert – E.ON-US
Larry Monday – E.ON-US
Shervon Frazier – E.ON-US
Daryn Barker – E.ON-US
Michael Toll – E.ON-US
John Fendig – E.ON-US
Mike Dickens – E.ON-US
Bob Tallmon – E.ON-US
Lisa Keel – E.ON-US
Dick Chapman - OMU
Tim Lyons – OMU
Bill Cook - OMU
Patrick Woods – EKPC
Darrin Adams – EKPC
John Humphries – KMPA
David Clark KMPA
Bill Yearly – BREC
Mark Hegedus – Spiegel & McDiarmid
Joni Batson – R.W Beck, Inc
Pat Clarey - FERC
Bruce Rew – SPP
Edmundo Toro – SPP
Scott Jordan - SPP
Jonathan Hayes – SPP
Chris Lax - SPP
Matthew Harward – SPP

Agenda Item 2 – Open Actions Items from Fall 2007 Stakeholder Meeting

Open Action Items from the Fall 2007 Stakeholder Meeting were presented by Edmundo Toro. These items were taken from the November 2007 Stakeholder Meeting Minutes.

- Open Action Items
- Stakeholder Questions

Mark Hegedus (Spiegel & McDiarmid): What is a transmission to transmission interconnection? (Edmundo Toro - SPP) A tie-line type of project is evaluated when a neighboring control area requests to build a new transmission facility that will interconnection its transmission system to E.ON's transmission system.

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Agenda Item 3 – ITO Operations

Operational data was presented by Chris Lax. The data presented was in accordance with what the stakeholders requested during the previous meeting.

- Operational Data
 - Tariff Admin Statistics
 - Scheduling Statistics
 - CRSG Events
 - TLR Statistics
 - AFC/ATC

- Stakeholder Questions

John Humphries (KMPA): What is CRSG Event? (Edmundo Toro - SPP) The CRSG is the Contingency Reserve Sharing Group that is coordinated by the MISO. E.ON and other entities participate in this group in order share spinning reserves to offset generator outages in participating Balancing Authorities (BA).

John Humphries (KMPA): What constitutes a CRSG event? (Edmundo Toro) A generator outage in a BA can cause a CRSG.

Mark Hegedus (Spiegel McDiarmid): How are other entities, like municipals, covered? Do they have to join the CRSG group? (Charlie Freibert - E.ON-US) E.ON is responsible for LG&E/KU generators with regards to CRSG Events. MISO has additional information about the CRSG's requirements and working group posted on their website.

Darrin Adams (EKPC): Has there been any investigation done in relation to these TLRs (referring to the top 2 TLR events listed on slide 8 - Smith138/145 (flo) Hardinsburg-HardinCo. 138 and Smith 138/145 (flo) Ghent-West Lexington 345)? (Keith Yocum – E.ON-US) The majority of this happens when there is a low load condition in OMU and maximum output on the generators. There is a reverse flow issue on the 345/138KV transformer onto the 345KV system.

Darrin Adams (EKPC): Has there been any curtailment in relation to these TLRs? (Stuart Goza -TVA)) The only curtailments resulting from these TLRs have been the curtailments of scheduled transmission services. The NERC website listed (<http://www.nerc.com/~filez/Logs/tlrlogs.html>) contains high level and detailed files outlining the TLR events called by TVA and other RCs. The website posts the TLRs as called by the RC and not by the Control Area. Therefore, to find a TLR pertaining to E.ON, you will have to filter the data by RC (TVA) and then compare it to a list of E.ON flowgates IDs from their OASIS website. TLR specific information can be requested from the RC by contacting Stuart Goza with the date and time of the TLR event.

Daryn Barker (E.ON-US): Are there any projects that are being planned in order to resolve this issue? (Keith Yocum – E.ON-US) There are a few projects that may help this issue.

Bill Yeary (BREC): Are there seasonal or just static values in the AFC models? (Edmundo Toro – SPP) There are seasonal ratings for each flowgate in the AFC process. (Armando Rodriguez –TVA) TVA utilizes quarterly updated seasonal models in our AFC process, updated with a number of inputs depending on the time horizon of interest (such as SDX and NERC schedules). The TVA AMB process will be posted along with the final draft of the Stakeholder Meeting Minutes.

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John Humphries (KMPA): Who is the RC contact at TVA? (Edmundo Toro – SPP) The TVA RC contact for E.ON-US is Stuart Goza, and the TVA AFC contact is Armando Rodríguez.

Daryn Barker (E.ON-US): Are there projects that may address/alleviate AFC limiting elements? (Keith Yocum – E.ON-US)

Mike Toll (E.ON-US): Is the limiting element that is identified limiting the ATC to zero? (Jonathan Hayes – SPP) Not Necessarily.

Daryn Barker (E.ON-US): Maybe we can limit the data that is presented to only those elements that limit AFC to zero and include monthly's also. (Jonathan Hayes – SPP) After reviewing the data that was presented, only those limiting elements that went to zero were included in the data posted.

Daryn Barker (E.ON-US): Is Lebanon to Marion Co. an EKPC facility? (Darrin Adams-EKPC) Yes.

Daryn Barker (E.ON-US): Is there regional coordination done to ensure that the ratings are correct for external areas? (Mike Toll – E.ON-US) Each entity maintains a flowgate definition file and we coordinate accordingly.

Joni Batson (RW Beck): Are they different from the model? (Mike Toll) They can be different values, but in general they match.

Daryn Barker (E.ON-US): Is it safe to assume that an external entity would also deny service if E.ON refuses service due to impact on an external question? (Mike Toll (E.ON-US) & Jonathan Hayes (SPP)) We honor reciprocal entities flow-based AFC and override values.

Mark Hegedus (Spiegel McDiarmid): What is E.ON's status in the JRCA (PJM-MISO-TVA Joint Reliability Coordination Agreement)? (Keith Yocum (E.ON-US), Jonathan Hayes (SPP), & Edmundo Toro (SPP)) E.ON is subject to the JRCA due to a provision in the OATT, due to their association with TVA, and as required by the MISO exit agreement. The ITO participates in the CMPC and CMPWG in order help with process improvements. E.ON does a lot of work with AFC data validation in order to ensure accurate values and import capabilities. They also focus on model integrity.

Daryn Barker (E.ON-US): Has there been talks to change the SEAMS agreements or get rid of it? (Jonathan Hayes – SPP) PJM is working on a white paper to draft a revised SEAMS agreement. They are also working on capacity allocation issues.

Daryn Barker (E.ON-US): Do you have a feel for how much allocation is borrowed? (Jonathan Hayes – SPP) The ITO keeps automatic AAL and manual records to track allocation sharing. There has not been any manual borrowing, and there is not a significant amount of sharing, overall.

Darrin Adams (EKPC): So there is no CBM set aside in the process? (Keith Yocum – E.ON-US) The resource planning has not requested that any be set aside for resource adequacy.

Mark Hegedus (Spiegel McDiarmid): What has TRM been set aside for? (Keith Yocum – E.ON-US) TRM has been set aside for various reasons, mostly CRSG events.

Daryn Barker (E.ON-US): Follow up with TVA on the actual process to do during energy emergency events.

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Agenda Item 4 – ITO Tariff Studies

Edmundo Toro reviewed several topics related to Tariff Studies in a presentation. The data presented was in accordance with what the stakeholders requested.

- Tariff Studies
 - SIS Metrics
 - SIS Process Overview
- Stakeholder Questions

Daryn Barker (E.ON-US): How is the worst case dispatch determined? (Edmundo Toro – SPP) MUST FCITC analysis is performed and the most limiting scenario is selected.

Daryn Barker (E.ON-US): What are the “special contingencies” and are they run on every case? (Edmundo Toro – SPP) They are single branch contingencies that would not necessarily be captured under the traditional single branch contingency analysis in the power flow software. They would be multiple conductor type outages.

Daryn Barker (E.ON-US): What are the “ACC” files and can we request that it be provided? (Edmundo Toro – SPP) They are contingency analysis results files that are viewable in supplementary PSS/E software. After discussion with customers, it was determined that this data does not provide a lot of value so these files are not currently provided unless requested.

Mark Hegedus (Spiegel McDiarmid): Does TVA participate in the SIS process as the RC? (Edmundo Toro – SPP) Not as the RC, but they have been involved in multiple studies as in a transmission planning role when their area has been identified as a potentially affected systems.

Agenda Item 5 – ITO LGI Studies

Jonathan Hayes discussed LGI Studies in his presentation. The data presented was in accordance with what the stakeholders requested.

- LGI Studies
 - Update/Metrics
 - Process Overview
- Stakeholder Questions

Daryn Barker (E.ON-US): Are you looking at what MISO is doing with their queue process for GI? (Jonathan Hayes – SPP) We have looked at the MISO white paper, but we are waiting for the finalized version in order to determine any applicable improvements.

Mark Hegedus (Spiegel McDiarmid): How is the analysis in the GI different from the analysis in the transmission service studies? (Edmundo Toro – SPP) The transmission service analysis is limited to power flow/contingency analysis. This analysis is also performed in the GI, but additional stability and short circuit studies are performed in GI that are significantly more detailed

Agenda Item 6 – E.ON Tariff Updates

Keith Yocum discussed several E.ON Tariff Updates that have been approved or proposed since the last Stakeholder Meeting.

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- Tariff Updates
 - Tariff Filing Updates
 - Attachment K Planning Cycle
 - SIRPP
 - Business Practices
- Stakeholder Questions

Mark Hegedus (Spiegel McDiarmid): FERC has asked NERC/NAESB to develop a process to standardize definitions; will the results of that have an impact on the revised Attachment C? (Keith Yocum – E.ON-US) We have looked at some of the drafts and it does appear that it will have a few impacts, but it depends on the final version. E.ON-US will probably have to file a revised version of Attachment C in order to officially adopt the new standards.

Mark Hegedus (Spiegel McDiarmid): Has this process (Attachment K Planning Cycle) been developed in recent months? (Keith Yocum – E.ON-US) This is referenced in Attachment K.

Mark Hegedus (Spiegel McDiarmid): Is there an expectation that this process (Attachment K Planning Cycle) will be included in a revised Attachment K because FERC has requested more detail in several attachments? (Keith Yocum – E.ON-US) It is my vision that this would probably be included in each specific entity's Attachment K.

Mark Hegedus (Spiegel McDiarmid): What is Attachment A to the LG&E/KU OATT Business Practices and how were those criteria determined? Does this result in a lot of SIS for small increases? (Keith Yocum – E.ON-US) The thought process behind it was to identify situations where additions or modifications to NITS could potentially change the required implementation date of transmission projects. (Mike Toll – E.ON-US) It is not a 1 MW increase; it is a 1 MW change from the last forecasted values. Also, the intent was to provide criteria that would capture all situations that would modify the required implementation date for a transmission project. We set the criteria at a point where we thought all these situations would be captured, but they may not be the criteria forever.

E.ON Distribution Planning - Can they change the criteria per area (urban/rural) because this puts a lot of burden on the Distribution side? (Mike Toll – E.ON-US) But the transmission line impact, from our perspective, is the same if the load is at one station or distributed among several stations.

John Humphries (KMPA): Would this be applicable if the entity implements a demand side management program? (Keith Yocum – E.ON-US) If this provides for the peak load to remain constant, then no changes are required.

Daryn Barker (E.ON-US): Single TSR for multiple changes, do you request the net increase in load? (Keith Yocum – E.ON-US) Yes.

Agenda Item 7 – E.ON NERC Standards for ACE and Metering/Customer requirements

Keith Steinmetz discussed E.ON Metering Standards during a presentation.

- E.ON Metering Standards
 - NERC Standards for ACE
 - Recommended Telemetry
 - Other Control Areas
 - Tie Line Interconnections
 - IPP
 - EMS Infrastructure
- Stakeholder Questions

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No questions were asked of Keith Steinmetz.

Agenda Item 8 – ITO Transmission Expansion Plan (TEP)

A status update on the ITO's assessment of the E.ON TEP was presented by Edmundo Toro.

- TEP
 - ITO's Assessment
 - Potential Thermal Issues with explanation
 - Potential Voltage Issues with explanation
 - Dynamic Analysis
 - TEP Coordination
- Stakeholder Questions

Mark Hegedus (Spiegel McDiarmid): Is the draft plan posted on OASIS? (Edmundo Toro – SPP) Not currently. The ITO posts their assessment of the TEP. This may change with Attachment K.

Joni Batson (R.W. Beck, Inc.): Are TEP updates taken into consideration in SIS? (Edmundo Toro – SPP) Yes, when we receive a new set of SIS models from E.ON in May, they have the latest MMWG information and TEP projects. The plan is to complete the TEP assessment by May in order to correspond to the updated cases.

Daryn Barker (E.ON-US): Are Operational Guidelines used in calculating ATC? (Edmundo Toro – SPP) The current AFC process does not have the flexibility to take operating guidelines into account when calculating ATC.

Darrin Adams (EKPC): Will all the details of the TEP be provided when the report is posted? (Edmundo Toro – SPP) Yes.

Mark Hegedus (Spiegel McDiarmid): What does the ITO's TEP review consist of? (Edmundo Toro – SPP) The ITO reviews E.ON's TEP in order to ensure that the proposed plan meets all the applicable operational and reliability criteria, to ensure that the proposed projects resolve the issues that were identified as violations, and determine that all the proposed plans have project implementation dates that are sufficient to address potential violations in a timely manner.

Darrin Adams (EKPC): Why does the ITO identify different issues than E.ON? (Edmundo Toro – SPP) This is attributable in part to the ITO's use of PSS/E with E.ON's use of PSLF. Most of the issues that were identified were not really issues from E.ON's perspective, but the ITO's analysis did catch a few issues that had to be addressed by E.ON TP. (Keith Yocum- E.ON-US) E.ON has also implemented an additional screening study in order to address all issues more completely.

Darrin Adams (EKPC): When does the ITO expect to complete its review of the TEP? (Edmundo Toro – SPP) We are hoping to complete it as soon as possible, hopefully sometime this summer.

Darrin Adams (EKPC): Are alternatives for major projects considered? (Keith Yocum- E.ON-US) For major projects (> \$1 million), E.ON performs an Area Study in order to identify the least cost alternatives.

Mark Hegedus (Spiegel McDiarmid): What is the load input into the TEP? (Keith Yocum & Mike Toll – E.ON-US) The TEP report has a table that summarizes the total load per entity served from the E.ON transmission system. The models contain a bus load forecast level model.

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Darrin Adams (EKPC): Why are the results identified by the ITO in PSS/E sometimes different? (Edmundo Toro – SPP) Sometimes this results from the way that PSS/E computes post contingent load violations based on an adjusted MVA rating (to account for post contingent voltage and current). This does not correspond to how E.ON's Planning Guidelines define violations since these guidelines are based on "base" ratings.

Daryn Barker (E.ON-US): Will the draft TEP report (700 page document) be posted? Keith Y. Yes.

Open Forum

Mark Hegedus (Spiegel McDiarmid): Can we expect TVA to participate in future meeting since it is apparent that there are several questions that they need to answer? (Keith Yocum – E.ON-US) E.ON will actively pursue making sure that a TVA representative attends the Fall 2008 Stakeholder Meeting.

Joni B./Mark H. – Can E.ON provide transmission maps? (Keith Yocum – E.ON-US) E.ON will look into the requirements for providing this information.

Respectfully Submitted,
Scott Jordan
Lead Engineer



DAY 1 - ITO LG&E/KU Stakeholder Meeting Agenda

9:00 – 5:00 PM EPT – May 22, 2008 - Hyatt Regency Louisville 320 W Jefferson Louisville, KY 40202

Conference Call – (1-866-862-6194) (Pass code: 7922355)

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
8:00	Breakfast	
9:00	Introductions & Overview	Bruce Rew (Executive Director, Contract Services)
9:15	Action Items From previous Stakeholders Meeting	Edmundo Toro (ITO)
9:30	ITO Operations <ul style="list-style-type: none"> • Operational Data <ul style="list-style-type: none"> ○ Tariff Admin Statistics ○ Scheduling Statistics ○ CRSG Events ○ TLR Statistics ○ Stakeholder Questions • AFC/ATC <ul style="list-style-type: none"> ○ Statistics/Metrics ○ Stakeholder Questions 	Chris Lax (ITO)
	Questions/Open Discussion	
	Break	
10:45	ITO Tariff Studies <ul style="list-style-type: none"> • SIS Metrics • Coordination/Models • Stakeholder Questions 	Edmundo Toro (ITO)
11:30	LGI Studies <ul style="list-style-type: none"> • Update/Coordination • Process Overview • Goals 	Jonathan Hayes (ITO)
12:00	Lunch	

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1:00	EON-US Tariff Updates – <ul style="list-style-type: none"> • Attachment K • Business Practices • 890 A Changes 	Keith Yocum (EON)/Jennifer Keisling (EON)
	Questions/Open Discussion	
2:00	<ul style="list-style-type: none"> • NERC Standards for ACE and Metering/ Customer requirements 	Keith Steinmetz
	Questions/Open Discussion	
2:30	ITO Review of 2007 TEP <ul style="list-style-type: none"> • ITO Review 	Edmundo Toro
	Questions/Open Discussion	
3:15	Break	
3:30	2008 TEP Updates <ul style="list-style-type: none"> • Project Updates • E.ON US Transmission Planning Guideline changes 	Keith Yocum (EON)
	Questions/Open Discussion	
5:00	Open Forum - Stakeholder Feedback	
	Adjourn	

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DAY 2 - LG&E/KU Transmission Expansion Plan Stakeholder Meeting Agenda

9:00 – 12:00 PM EPT – May 23rd, 2008 - Hyatt Regency Louisville 320 W Jefferson Louisville, KY 40202

Conference Call – (1-866-862-6194) (Pass code: 7922355)

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
8:30	Breakfast	
9:00	NOC (Network Operations Committee)	Edmundo Toro (ITO)
	Open Forum	
12:00	Adjourn	

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