

## Minutes of Meeting EDAC - Project Advisory Group

<b>Date held:</b> Nov. 30, 2010	<b>Time held:</b> 9:00 to 13:30	<b>Location:</b> Clarkson Viewing Gallery
<b>Invited/Attended</b>	<b>Company Name</b>	<b>Attendance Status</b> (A)ttended; (R)egrets; (S)ubstitute
Cary, Rob	Sithe Global	A
Kerr, Paul	Shell Energy	A
Jane Lin	GTAA	A
Maddix, Melanie	Sithe Global	A
Shane Harwood	Sithe Global	Telephone
Shah, Sushil	OPGI	A
Sikstrom, Matt	OPGI	A
John Windsor	Emera Energy	A
Michael Cook	Emera Energy	R
Hossie, Scott	TransAlta	A
Margaret Kuntz	TransCanada Energy	A
John Mackenzie	OPA	A
Chang, Monica	OPGI	R
Phil Walker	OPGI	R
Abid, Tibby	IESO	A
Doran, Pat	IESO	A
Singh, Navneet	IESO	A
Wright-Hilbig, Rhonda	IESO	A
Berry, Scott	IESO	A
Marcia Thomas	IESO	A
Rado Jovic	IESO	A
Kamstra, Pat	IESO	A
Romeo, Rick	IESO	A
Mauro Facca	IESO	A
Dustin Dmytrow	IESO	A
Frank Molinaro	IESO	A

The meeting minutes when finalized will be posted on the IESO web site at:

[http://ieso.ca/imoweb/consult/consult\\_se73-pag.asp](http://ieso.ca/imoweb/consult/consult_se73-pag.asp)

## Summary of Meeting Discussion

### Item 1 Introduction and Review of Agenda

Tibby Abid introduced himself as Chairman of the meeting and welcomed the EDAC Project Advisory Group members and invited them to introduce themselves. Tibby mentioned that this would be the last PAG Meeting during 2010.

Tibby reviewed the agenda items and asked if there were any additional items the members wished to discuss. No new items were proposed for the agenda.

### Item 2 Review of Minutes and Action Items from September 30, 2010 Meeting

Tibby reviewed the draft minutes from the PAG meeting on September 30, 2010. No additional changes were suggested to the latest posted version of the minutes and the PAG members declared the minutes of the September 30<sup>th</sup> meeting final.

Tibby reviewed the list of open Action Items appended to the Sept 30<sup>th</sup> minutes. As a result of this review, the status of the action items was updated as per the table below.

Action Item	Status
15	Closed
21	Closed
26	Closed
27	Closed
28	Closed
29	Closed
30	Closed
31	Closed
32	Closed
33	Closed
34	Closed
35	Closed
36	Closed
37	Closed
38	Closed
39	Closed
40	Closed
41	Closed
42	Closed

### Item 3 Project Status Update

Tibby provided an overview of the project's status to date. The project team completed Factory Acceptance Testing (FAT) for the Day Ahead Calculation Engine (DACE) and MIM in September 2010. The IESO has since taken delivery and are in process of Site Acceptance Testing and System Integration Testing for these systems. Testing of the settlements systems is scheduled to begin shortly with system testing starting in early December 2010.

The EDAC team has reviewed all Market Manuals that have been impacted by the EDAC changes and are prepared to issue a baseline of the Manuals that can be used as a basis for testing. This baseline will be issued later in December, 2010 as version 2.0. The Manuals will be posted on the EDAC Stakeholder Engagement portal and the EDAC Project Advisory Group (SE-73) website. From this point onward any changes to these manuals will be carried out through EDCA project change management process.

The IESO contracted an independent consultant to perform a review of the implementation of Day-Ahead Calculation Engine and Settlement Systems. The purpose of the review is to ensure the tools that have been developed to reflect the applicable Market Rules. The PA Consulting Group was awarded with the contract to conduct this review. The review will take place during Q1 2011 and a final report will be available by the end of May 2011, before commencing the Market Trials.

A PAG member asked if the independent review results will be available to PAG members. The IESO responded that the final report will be made public for market participant reference.

#### **Item 4 Update on Availability of Connectivity for MPs, Report style Sheets**

Rado Jovic provided an update on the availability of market participant connectivity testing. He began with a discussion on the Market Participant Interface (MPI) testing that has been completed.

Rado explained that the MPI Factory Acceptance Testing had been completed and that System Integration Testing was underway for the MPI. MPI templates that were issued in October 2010 were found to have some small flaws and are currently being refined. The IESO will issue corrections by the end of the week of November 29th. The corrections will be posted on SE-87 website for review and an email will be sent to notify PAG members of the posting.

Rado further outlined that The IESO is targeting January 2011 to post IDK parameters to integrate with the MPI. The IESO will set up a different testing system, separate from the IESO sandbox, for connectivity testing. A schedule will be ready in January 2011 for connectivity testing. The system will be set up so it can be shared with in-house testing. Scheduling of the testing in a shared environment will be critical. The IESO is still working on the provision of access to the test environment. It was noted that the Market Trials will take place in the IESO sandbox environment.

Editorial Note: Since the November 30 PAG meeting the IESO has developed a way to conduct connectivity testing within the sandbox environment. Details will be posted in January 2011.

A PAG member asked if digital certificates will be eliminated by the EDAC in-service date. The IESO responded that the elimination of digital certificates is a parallel project and there is no guarantee that the two projects will converge.

Rado remarked that schemas for public and private reports are available. The IESO is currently developing further reports and style sheets which will be posted for market participant review.

A PAG member asked how the DACP failure will appear on the reports. The IESO response was once the design is completed the revised reports will be posted for market participant review.

**ACTION ITEM 43** - The IESO has committed to communicate the schedule for connectivity testing to the PAG by mid January 2011.

## Item 5 Enrol Facility Process Walk Through

Scott Berry provided a walkthrough of the DACP registration requirements for IESO Business Process testing. The PAG members were requested to submit the DACP registration data required for the IESO to conduct Business Process testing and for Market Trials. The IESO is requesting completion and submission of required forms from PAG members by December 17, 2010.

PAG members requested IESO to revise the forms to indicate that the forms must be submitted to EDAC project and that the information will be used for testing purposes only.

A PAG member asked what the units for Elapsed Time to Dispatch (ETD) were and requested that the units be indicated on the form. The IESO responded that the units for ETD are minutes.

**ACTION ITEM 44:** The IESO will revise the registration forms to indicate that they must be submitted to EDAC and that the information will be used for testing purposes only. The revised forms will be re-posted to the IESO website the first week of December for PAG review. PAG members are requested to provide their comments by December 3, 2010.

A PAG member asked if during Market Trials testing they would have an opportunity to test operating as both a combined cycle plant with the pseudo unit (PSU) model and without the PSU model. The IESO responded that they can operate as both during market trials but not simultaneously for the same facility. Market Trials will be a good opportunity to test the registration and de-registration of a PSU.

SGOL and DA-PCG Form 1552 will be an electronic form on December 9, 2010. This form is used to submit SGOL information including MLP and MGBRT which are used in the DACP. The name of this form will change when the name of the real-time generation cost guarantee program changes.

The Combined Cycle Plant Form 1702 is not required for physically aggregated facilities.

## Item 6 Market Manual Update from the Sept 30<sup>th</sup> PAG Meeting

Pat Doran and Navneet Singh presented an update of the Market Manuals. For details refer to slide deck provided as part of the PAG November 30<sup>th</sup> meeting materials.

### Market Manual Change Summary:

MM 9.1	<ul style="list-style-type: none"> <li>Section 4.1.3 -added conditions under which Form 1702 is required,</li> <li>Section 4.1.4 -Form 1721 name changed to "Implementation of Three Part offers"</li> </ul>
MM 9.2	<ul style="list-style-type: none"> <li>Minor clarifications to ELR to EELR - revised to clarify treatment of EELRS</li> </ul>
MM 9.3	<ul style="list-style-type: none"> <li>A new table was added - Table 4-1, new section (DACP failure reports), new appendix showing IHO calculations.</li> </ul>
MM 9.4	<ul style="list-style-type: none"> <li>Section 4.1.2 added procedure for failure to load commitments</li> </ul>
MM 7.3	<ul style="list-style-type: none"> <li>New section describing how de-rating times are used for DA-PCG eligible generation units</li> <li>OPCAP is determined using both planned and actual outage times</li> <li>Market Participant requirement to provide accurate start and end times</li> </ul>
MM 9.5	<ul style="list-style-type: none"> <li>Section 5.1 - explained component 2 - and the impact of OPCAP, summary of business rules are available in Table D-1 in MM 9.5.</li> <li>Section 5.2 - Variant for STs associated with PSUs - Section 5.2</li> <li>Section 9 - DA linked wheel failure charge Section 9.6 - Linked to greater of import or export failure charge - default to import if deviations are the same. The change doesn't affect the amount only how the settlement is read.</li> </ul>
MM 5.5	<ul style="list-style-type: none"> <li>Revisions - Table 1.1 added SOR and Pre-dispatch</li> <li>Section 1.6.5 - Added back Admin pricing section and revised to mention automated calculation.</li> <li>Appendix A - Removed Admin pricing form 1549 and removed DA-GCG from title of form 1552</li> </ul>

**ACTION ITEM 45-** The IESO will review the formula for calculating settlement amounts for MGBRT over midnight for STs associated to PSUs (the example was discussed and presented on the flip chart during the meeting).

## **Item 7 Market Rules Updates from the Sept 30<sup>th</sup> PAG Meeting**

Pat Kamstra mentioned that the Market Rules amendment proposal was submitted to the Technical Panel (TP) on November 10<sup>th</sup>. IESO will provide link to Market Rules amendment proposal for PAG future reference. Any comments by PAG members can be either referred to the Technical Panel rep or brought up for discussion at the PAG meeting.

**ACTION ITEM 46:** EDAC Team to provide a link to MR amendments in the meeting minutes.  
<http://www.ieso.ca/imoweb/pubs/mr2010/MR-00375-Q00.pdf>

At the November 10<sup>th</sup> Technical Panel meeting an EDAC refresher was provided to TP members. The RT IOG offset and EDAC Implementation of Linked Wheels were both presented to the Inter-jurisdictional Trading Standing Committee on Nov 22<sup>nd</sup>. We are expecting comments from IJT members on the IOG offset process by December 3, 2010.

A PAG Member asked if the Market Rule amendments were going to impact the Market Manual baseline 2.0. The IESO responded that the Market Manual Baseline is consistent with Market Rule amendments currently proposed.

## **Item 8 Market Trials Project Plan**

Tibby Abid introduced Marcia Thomas as the EDAC Project Test Lead.

Tibby presented the proposed structure of the Market Trials Test Plan document. For details refer to the slide deck provided as part of the PAG November 30<sup>th</sup> meeting materials. The Market Trials test plan will be developed by the IESO and stakeholdered with market participants.

A PAG member asked if the consultants providing the independent review of the DACE and Settlement Systems are going to be involved in the IESO's Test Plan development and review. The IESO responded that the consultants will develop their own test plans/cases to conduct their review.

A PAG member asked if the external review will be completed before the Market Trials. The IESO responded that the consultant performing the external review will provide their final opinion/recommendations on the DACE and Settlements Systems before Market Trials begin.

Tibby reviewed the next steps in 2011:

- January -Relevant sections of the non Market Facing test plans will be shared with PAG
- February -Market Trials Test Plan first draft
- April -Finalized Market Trials Test Plan

A PAG member asked if training will be offered to PAG member and non-PAG member companies before Market Trials. The IESO responded that training will be provided and currently the IESO is in process of developing the appropriate training materials.

### **Item 9    Wrap-Up & Adjourn**

Next PAG meeting is scheduled for January, 2011. We will send out proposed dates and choose an appropriate date.

**ACTION ITEM 47:** IESO to propose dates for January 2011 PAG meeting.

## Action Item Summary

Action Item Summary				
#	Date	Action	Status	Comments
1	June 11, 2010	IESO will review the PAG Terms of Reference, revise the wording where appropriate and re-post the document. When the document is posted, the IESO will request written comments within one week. Comments on the Terms of Reference can be provided at: <a href="mailto:edac@ieso.ca">edac@ieso.ca</a>	Closed	IESO posted the revised ToR on the PAG website. PAG Members were given until July 30 to comment on the draft. No comments were received and the ToR were posted as final.
2	June 11, 2010	IESO to determine how the information relating to market participant testing environments will be communicated to stakeholders.	Closed	This item will be addressed at future meetings.
3	June 11, 2010	PAG members were requested to provide feedback on the proposed structure of market manual 9. Comments can be provided by email to <a href="mailto:edac@ieso.ca">edac@ieso.ca</a> and they will be discussed at the next PAG meeting.	Closed	No comments were provided
4	June 11, 2010	IESO will provide information on how the Shadow Price Report is generated and what the prices mean.	Closed	A response was provided in the minutes of the July 15, 2010 PAG meeting.
5	July 15, 2010	IESO to post final June 11, 2010 minutes on the web site.	Closed	Meeting minutes were posted as final.

<b>Action Item Summary</b>				
<b>#</b>	<b>Date</b>	<b>Action</b>	<b>Status</b>	<b>Comments</b>
6	July 15, 2010	PAG members were requested to submit comments on the draft market manual 9 documents by email to <a href="mailto:edac@ieso.ca">edac@ieso.ca</a>	Closed	Comments from PAG members were due July 30, 2010.
7	July 15, 2010	IESO will post the draft EDAC Project timeline showing the scheduled connectivity testing and Market Trials on the web site.	Closed	Posted July 16, 2010 under meeting materials for June 15, 2010 meeting of PAG.
8	July 15, 2010	IESO will set up an agenda item for next meeting to provide in advance a list of Market Trials scenarios.	Closed	Market Trials scenarios were discussed at the August 26, 2010 meeting.
9	July 15, 2010	The IESO will create a survey to understand PAG members' needs for Market Trials.	Closed	Action items 22, 23 & 24 were created to address stakeholder needs for Market Trials. This action item is no longer required.
10	July 15, 2010	PAG members to provide a list of potential scenarios for Market Trials prior to the next PAG meeting in August for discussion.	Closed	Scenarios from PAG members were due on July 30, 2010.
11	August 26, 2010	PAG members to provide comments on the draft minutes of the July 15, 2010 meeting by September 2, 2010.	Closed	Minutes accepted and posted

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12	August 26, 2010	The IESO will review and document the process for the situation where a DACP schedule of record is issued and constraints can't be loaded in contract manager as a result of a tool problem.	Closed	The procedure for failure to load commitments was discussed at the September 30, 2010 PAG meeting. This procedure will be added to the next version of Market Manual 9, Part 9.4.
13	August 26, 2010	The IESO will post v1.0 of Market Manual 9, Parts 9.0 to 9.4 on the portal.	Closed	MMs posted on the portal
14	August 26, 2010	The IESO will ensure that it is clear that if there is a difference between the DACP SOR and the Commitments Report the DACP SOR will take precedence.	Closed	SOR will take precedent
15	August 26, 2010	The IESO will provide a reference to the detailed design discussions where the IESO explained why the ST PCG is limited to the DIGQ when the output of another CT in real-time (above its DA schedule) made up the difference?	Closed	<p>The criteria regarding what will be included in the translation of the PSU day-ahead offers and schedules was outlined as part of the paper issued at the January 7, 2010 – Combined Cycle Plant Owners meeting where we discussed the alternative that we have devised for settling on the physical unit.</p> <p>&lt;link to SE group&gt;  <a href="http://www.ieso.ca/imoweb/consult/consult_se73-ccp.asp">http://www.ieso.ca/imoweb/consult/consult_se73-ccp.asp</a></p> <p>&lt;link to the paper&gt;  <a href="http://www.ieso.ca/imoweb/pubs/consult/se73/se73-20100107-PSU-Settlement-Paper.pdf">http://www.ieso.ca/imoweb/pubs/consult/se73/se73-20100107-PSU-Settlement-Paper.pdf</a></p>

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16	August 26, 2010	The IESO will provide a reference to the previous discussion explaining why fuel cost compensation is only to the MLP and not to the full day ahead scheduled quantity.	Closed	Fuel cost compensation for the MLP portion of the day-ahead schedule was discussed at the SDWG Meeting held on September 17, 2009. The final minutes of the meeting can be found on the portal at:  <a href="https://portal.ieso.ca/portal/server.pt/gateway/PTARGS_32_0_215_0_1_47/http://mpicollab;11930/collab/do/document/overview?projID=1602&amp;documentID=6349">https://portal.ieso.ca/portal/server.pt/gateway/PTARGS_32_0_215_0_1_47/http://mpicollab;11930/collab/do/document/overview?projID=1602&amp;documentID=6349</a>
17	August 26, 2010	The IESO will provide a link to material on the website explaining why DIPC is required and how it relates to a collapsing offer curve.	Closed	The need for a Derived Interval price Curve (DIPC) was discussed at the PSU Meeting held on January 7, 2010. The draft minutes of the meeting can be found on the portal at:  <a href="https://portal.ieso.ca/portal/server.pt/gateway/PTARGS_32_0_215_0_1_47/http://mpicollab;11930/collab/do/document/overview?projID=1602&amp;documentID=6656">https://portal.ieso.ca/portal/server.pt/gateway/PTARGS_32_0_215_0_1_47/http://mpicollab;11930/collab/do/document/overview?projID=1602&amp;documentID=6656</a>
18	August 26, 2010	The PAG members will provide their input on the approach of placing the DIPC formula in Appendix A of Market Manual 9, Part 9.5 instead of the body of the document.	Closed	Approach outlined in Appendix B

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19	August 26, 2010	EDAC project staff will discuss the impacts to the RT IOG offset to the Inter-jurisdictional Trading Standing Committee.	Closed	<del>IJT meeting scheduled for Nov 22, IESO staff to discuss at the meeting.</del>  IESO presented the impacts to the RT IOG offset to the IJT meeting held on Nov 22/10. Overall there were no concerns raised by the IJT members. The IJT members were requested to submit written comments by December 3 <sup>rd</sup> , 2010. Based on the feedback will update the status at the next PAG meeting in 2011.
20	August 26, 2010	The IESO will incorporate the changes resulting from the comments Market Manual 9, Part 9.5 in an updated draft which will be provided to the PAG for their review and comment by September 10, 2010.	Closed	Changes were posted for review and were presented as Item 3 of Sept. 30 PAG meeting.
21	August 26, 2010	The PAG members were requested to provide written comments on the proposed Administered Pricing methodology by September 10, 2010.	Closed	Comments due from PAG Members by Oct. 15 <sup>th</sup>  No comments from PAG members have been received
22	August 26, 2010	Prior to the next PAG meeting, the IESO will provide a high level list of potential market trials scenarios, based on the test cases developed for internal testing.	Closed	A high level list of Market Trials scenarios was presented as part of the whitepaper titled "Structure of Market Trials".

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23	August 26, 2010	The IESO will provide principles (guidelines) for testing that will help the MPs determine the structure of the scenarios.	Closed	Market Trials principles and guidelines were presented as part of the whitepaper titled "Structure of Market Trials".
24	August 26, 2010	The IESO will provide a diagram showing the two streams of testing during the market trials.	Closed	A diagram showing the Market Trials testing streams was presented as part of the whitepaper titled "Structure of Market Trials".
25	August 26, 2010	The IESO will propose a date for the October meeting of the PAG.	Closed	
26	Sept 30, 2010	PAG members to provide final comments on the draft minutes of the August 26, 2010 meeting by October 15, 2010.	Closed	No comments have been received The current published minutes of meeting will be considered as final.
27	Sept 30, 2010	IESO to review the request for a separate PCG and clawback charge type on Settlement Statements.	Closed	IESO propose closing the action item with the resolution of not moving forward with the change.  This is a significant change to the approved settlement design and will pose a high risk to the project schedule.  To implement these changes we would require modifications of the settlement detailed design and business requirements, the solution specification for DA-PCG and the technical specifications for DA-PCG Component 1 and DA-PCG Component 3 and the appropriate test plans. These are significant changes will pose a significant risk to the project schedule. A business case would be required to move on with the changes.

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28	Sept 30, 2010	In Market Manual 9, Part 9.5, Section 5.1.10 reword the Variant One description by adding " <u>where the start was scheduled in the current day and excluding Variant 3</u> " and delete the remainder of the sentence in part 10.	Closed	Changes made during Sept 30 PAG meeting.  Changes included in the revised Market Manual 9, Part 9.5 published by Oct 28, 2010
29	Sept 30, 2010	IESO will include the details about the initial status of resource at the beginning of the day. Details will be included in MM9 Part 9.3.	Closed	<b>A table showing how IHO is calculated was added to section 4.1.4 of MM9 Part 9.3.</b>  Revised Market Manual 9, Part 9.3 published by Oct 28, 2010
30	Sept 30, 2010	PAG members request a legend for the colours in the graphical representation to distinguish CT and ST portions in MM 9 Part 9.5 Appendix A.	Closed	Legend has been added.  Revised Market Manual 9, Part 9.5 published by Oct 28, 2010
31	Sept 30, 2010	IESO will repost all the edits discussed for MM 9.5 and provide 2 weeks for comments. PAG comments are due by October 15, 2010.	Closed	MM 9.5 v04 has been reposted on Oct 8.  Comments from PAG members have been received
32	Sept 30, 2010	PAG member comments on posted red line version of Market Manual Revisions presented in Item 4 of Sept 30 PAG meeting are due by October 15, 2010.	Closed	Comments from PAG members have been received  Revised MM (TBD) published by Oct 28, 2010
33	Sept 30, 2010	PAG members to provide feedback on Failure Reports material by October 15, 2010	Closed	No comments have been received from PAG members

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34	Sept 30, 2010	The IESO will provide clarification on the issue; if MPs need to offer in Real Time as a result of the failure of commitments tool the action in Real Time taken won't affect their PCG.	Closed	IESO confirms that there is no impact.  If a market participant changes their real time offers to get a schedule to MLP for all hours of their day-ahead commitment then their real-time revenue will be reduced but they will be held whole by the DA-PCG.
35	Sept 30, 2010	PAG members were requested to provide comments on new Form 1721 – Implementation of Three Part Offers by October 15, 2010.	Closed	No comments have been received from PAG members
36	Sept 30, 2010	IESO to review and report back to PAG why Market Rule, Chapter 7 changed from "the IESO <u>must</u> " to "the IESO <u>may</u> "? in Section 2.2.6I	Closed	Market Rule has been changed to "the IESO shall". Revised Market Rule Amendments published by October 28, 2010
37	Sept 30, 2010	IESO will review the new wording of the MGBDT definition to determine if it should refer to the technical requirements of the facility.	Closed	Market Rule definition for MGBDT will not change therefore any reference to technical requirements will be removed.  Revised Market Rule Amendments published by October 28, 2010
38	Sept 30, 2010	IESO to provide a reference to where the clawback of CMSC for a generation unit that is committed to run after midnight to satisfy MGBRT was discussed in the past.	Closed	Reference: <a href="#">"Congestion Management Settlement Credit (CMSC) Payments for Generation Facilities (SE-84) January 7, 2010"</a>  <a href="http://www.ieso.ca/imoweb/pubs/consult/se84/se84-20100107-Recovery-of-CMSC-Payments.pdf">http://www.ieso.ca/imoweb/pubs/consult/se84/se84-20100107-Recovery-of-CMSC-Payments.pdf</a>

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39	Sept 30, 2010	Receive comments from PAG members on detailed Market Rule amendment presentation by October 21; IESO response at next PAG meeting	Closed	No comments have been received from PAG members
40	Sept 30, 2010	IESO to revise the objective in the Structure of Market Trials document to reflect the benefit of MPs testing of the IESO systems and procedures.	Closed	Revised 'Structure of Market Trials' published by October 28, 2010
41	Sept 30, 2010	IESO will consider MPs request for input and participation during Technical Testing and report back <b>to the PAG.</b>	Closed	IESO will consider the PAG members request. Details will be discussed at the next PAG meeting, i.e., Nov 30, 2010
42	Sept 30, 2010	PAG to provide input/comments on <u>Structure of EDAC Market Trials</u> white paper by October 21 <sup>st</sup>	Closed	No comments have been received from PAG members
43	Nov 30, 2010	IESO to communicate schedule for connectivity testing to PAG.	Open	
44	Nov 30, 2010	The IESO will revise the registration forms to indicate that they must be submitted to EDAC and that the information will be used for testing purposes only. The revised forms will be re-posted to the IESO website on December 1, 2010 for PAG review.	Open	

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45	Nov 30, 2010	The IESO will review the formula for calculating settlement amounts for MGBRT over midnight for STs associated to PSUs (the example was discussed and presented on the flip chart during the meeting).	Open	
46	Nov 30, 2010	EDAC Team to provide a link to MR amendments in the meeting minutes.	Open	Completed (See Item 7 in Nov 30, 2010 minutes)
47	Nov 30, 2010	IESO to propose dates for January 2011 PAG meeting	Open	