

Minutes of Meeting

Date held: Sept 9, 2011	Time held: 9:30 am - 2:30 pm	Location: Viewing Gallery
Invited/Attended	Company Name	Attendance Status (A)ttended; T(Telephone); (R)egrets; (S)ubstitute
Cook, Michael	Emera Energy (GEC)	A
Windsor, John	Emera Energy (GEC)	A
Spitters, Richard	GTAA – Wattsworth	A
Lin, Jane	GTAA	A
Cammerock, Throy	IESO	A
Gopi, Biju	IESO	A
Short, Rebecca	IESO	A
Finkbeiner, Darren	IESO	A
Choi, Wonkun	IESO	A
Jovic, Rado	IESO	A
Lodyga, Martin	IESO	A
Pat Doran	IESO	A
Abid, Tibby	IESO	A
Berry, Scott	IESO	A
Backman, Karen	IESO	A
Veldhuizen, Jon	Northland Power	A
Romanish, Orest	Northland Power	A
Broadrick, Brent	Shell Energy	A
Kerr, Paul	Shell Energy	A
Jayapalan, Jennifer	Portlands Energy Centre	A
Sears, Haether	Portlands Energy Centre	A
Maddix, Melanie	Goreway Station Partnership	A
Kelly, Brian	TransCanada Energy	A
Vasquez, Nora	TransCanada Energy	A
Karabela, Henry	OPG	A
Chang, Monica	OPG	A
Lai, Lenny	OPG	A
Qureshy, Sherry	OPG	A
Towstego , Ruby	OPG	T

All meeting material will be posted on the IESO web site at:
http://ieso.ca/imoweb/consult/consult_se73-pag.asp

Market Trials Working Group Meeting

Agenda Item 1:

a) Introduction /Review Agenda

Tibby Abid introduced himself as Chairman of the meeting, welcomed the Market Trials Working Group (MTWG) members and invited them to introduce themselves.

Tibby asked the attendees if there were any additional items to be added to the agenda. No additional items were put forward

b) Review Minutes and Action Items from July 7, 2011 meeting (webcast)

Tibby reviewed the open Action Items appended to the July 7, 2011 minutes. As a result of this review, the status of the action items was updated as per the table below. These changes are reflected in the Action Item Summary appended to these minutes.

ACTION ITEM	STATUS
3	Closed
7	Closed
8	Closed
9	Closed
10	Closed
11	Closed
12	Closed

No comments were received from MTWG members since posting the minutes and no additional changes were suggested to the latest posted version of the minutes.

The MTWG members declared the minutes of the July 7, 2011 meeting final.

c) Project Status Update

Structured Settlements Market Trials were completed on August 31st. Unstructured Settlements Market Trials will continue until September 16th. The IESO has begun work on a Market Trials report with a target date for a draft report being available by September 23rd. The report will be posted on the SE-73 website for comment for one week.

The external project review continues on schedule. PA Consulting has submitted an opinion letter for the Day Ahead Engine software. This letter is available on the SE-73 website at the following link: [http://www.ieso.ca/imoweb/pubs/consult/se73/se73-20110818-Review letter-DACE.pdf](http://www.ieso.ca/imoweb/pubs/consult/se73/se73-20110818-Review_letter-DACE.pdf) .

PA Consulting will be issuing an opinion letter regarding the settlements systems at the end of September 2011.

The IESO is providing a workshop for market participants to learn about what is needed to participate in the enhanced Day-Ahead Commitment Process (DACP). The workshop will be held on Friday, September 30, 2011, from 8:30 a.m. to 4 p.m. This will be of most interest to those who are participating in DACP and have not been involved in the various Enhanced Day-Ahead Commitment Project (EDAC) working groups. A MTWG member asked if it is possible to webcast the workshop. The IESO indicated that it will check first with IT/Customer Relations and presumably the workshop will be webcasted too.

Editorial note:

The IESO confirms that the workshop will be webcast. The webcast details will be communicated once they become available.

Market Rules: On August the Technical Panel voted and approved the EDAC Market Rules recommending them for approval by the IESO Board of Directors. The Board is meeting today, September 9th, and the EDAC Market Rules are on the meeting agenda. At the last Technical Panel meeting the calculation of Locational Marginal Prices in Day Ahead and Real Time was discussed. If MTWG members would like to discuss the impact of this calculation there will be an opportunity to do so at the next MTWG meeting proposed for October 4th. MTWG members can also contact the EDAC project to discuss the matter off line before the October 4th meeting.

The IESO Sandbox testing environment that was constructed for structured and unstructured settlements testing will revert back to its original set up as of September 16th. As of September 2nd an IT code freeze is in place at the IESO for EDAC changes. Critical and high defects will be addressed before in-service while medium and low defects will have a workaround before in-service. IT have begun their rehearsal for project software deployment. The rehearsal is being conducted on the IESO QA environment.

September 30th is the deadline for Facility Registration submissions for the enhanced DACP. Please see the September 8th IESO Bulletin for links to the backline version of the applicable registration forms.

Tibby reviewed the current Market Trials Defect list. The status of the open items is listed below:

Defect #	Description	Status
044	Time out error when submitting dispatch data using MPI; Testing has not seen this error since June	Propose to close
047	MPI Errors; IESO is testing as part of the PKI Portalization project.	Open
053	DA Report times differ; this does not happen in production.	Propose to close
056	ADE Reports do not include PUs; Report had	Open

	been built and will be inserted	
072	DA Adequacy Report published multiple times	Open
077	Inconsistent rounding of CRS Intermediate results	Open
079	Predispatch DQSW is presented as a negative number	Open
083	DAOS run stopped when switching from PU to PSU; fix is being tested currently.	Open
092	Limit DIGQ and DIPC to registered MAX Gen Cap; Design change necessary, currently testing	Open
093	Documentation: Revise Charge Types and Equations (GWC); posting on Pending Changes	Open
094	Documentation: Revise Format Specification and Data Files Document; posting on Pending Changes	Open
095	Documentation: Revise Charge Types and Equations (PCG); posting on Pending Changes	Open
096	IOG Report; updating to include missing transactions	Open

Item 2 - EDAC Go-Live Activities

a) Schedule and Milestones

Tibby Abid reviewed the EDAC In Service Timeline issued to MTWG members before the meeting and posted at the following link to the SE-73 website:

http://www.ieso.ca/imoweb/pubs/consult/se73/se73-pag-20110909-EDAC_InService_Timeline.pdf

b) Release Plan

Throy Cammock reviewed the EDAC Release Plan that is posted at the following link:

http://www.ieso.ca/imoweb/pubs/consult/se73/se73-pag-20110909-EDAC_Final_Release_Plan.pdf

Throy assured the meeting that the MPI/MIM outage necessary to initiate the new systems will be treated the same as any other outage.

A MTWG member asked if the naming conventions for the new settlements charge types had been finalized. The IESO responded that confirmation was needed regarding the status of the naming conventions.

Editorial note:

The naming conventions for the new settlements charge types are final. The latest version of the "IESO Charge Types and Equations IMP_LST_0001" document can be found at the following link: http://www.ieso.ca/imowebpub/201109/IMP_LST_0001_v43.1.pdf

Item 3 - MPI Portalization project

Wonkun Choi provided a review of the PKI Portalization project. The presentation can be found at the following link: http://www.ieso.ca/imoweb/pubs/consult/se73/se73-pag-20110909-MPI_Portalization_Project.pdf.

The IESO will be migrating the MPI functionality into the IESO portal. This will eliminate the need for digital certificates and provide users a single sign on method into the IESO Portal to access the Bid/Offer window. The MPI will now be referred to as the Energy Market Graphical User Interface workspace. The current PKI system and the Portal based system will run in parallel beginning October the 12th. The PKI version will be phased out by the end of 2011.

Wonkun then provided a demonstration of the portal and access to the Energy Market GUI.

Item 4 - Summer 2011 heat wave - Lessons learned on gas generator operation discussion

Dave Devereaux led a discussion with the MTWG to review how gas generators operated during the extreme weather conditions we experienced in July. On July 17, 2011 Ontario experienced an extreme heat day of ~50 degrees C. The IESO expected to see a high number of derates as a result of the high humid/temp. Dave commented that communications from the generation fleet was excellent up to and throughout the hot days of July. From a planning perspective he asked the group if the IESO were to use a rule of thumb to predict the magnitude of deratings in conditions over 30 degrees C, what would that rule be? A few MTWG members offered a rule of thumb of 10% once the temperature exceeded 30 degrees C. The longer units operate over 30 degrees C the more likely it is that derates will increase. Dave thanked the group and offered to discuss this individually with participants in the future.

Item 5 - DA-PCG and RT-GCG Interaction

IESO Market Rules representative, Rebecca Short, delivered a presentation on the settlement treatment of a Real-Time Generation Cost Guarantee (RT-GCG) where it interacts with a Day-Ahead Production Cost Guarantee (DA-PCG). The presentation was made available to MTWG members and is posted on the SE-73 website at the following link: http://www.ieso.ca/imoweb/pubs/consult/se73/se73-pag-20110909-RT-GCG_Settlement_Treatment.pdf.

The presentation summarized a number of scenarios where a real-time start event may adjoin or overlap a day-ahead commitment for the same resource. The eligibility for RT-GCG and DA-PCG were explained under each scenario presented. The IESO indicated that it will pursue market rule amendments to provide clarification to section 5.7.1.3 of Chapter 7 of the market rules such that manual constraints applied by the IESO or constraints associated with a DA-PCG shall not be used towards validation of a RT-GCG. The IESO also stated that start-up costs will not be considered twice for the same start event.

A MTWG member asked if it was possible for a resource to have 2 minimum loading points (MLPs) issued for the same start event? The IESO responded that each start event would be subject to the MLP associated with the applicable guarantee.

Editorial note:

In all cases, the facility is expected to achieve the MLP registered with the IESO. The Daily Generation Data (DGD) MLP submitted for the DA-PCG may be greater than the registered

MLP due to a technical limitation on the facility, and this DGD MLP would be reflected in the DA-PCG schedule portion of the event only. In this case it would be the responsibility of the market participant to contact the IESO control room to inform them of this MLP limitation in the period prior to the DA-PCG schedule, where the facility has come on early to participate in a RT-GCG. MLP is the minimum output of energy specified by the market participant that can be produced by a generation facility under stable conditions without ignition support. MLP changes from registered values must be based on technical reasons.

A MTWG member asked when constraints related to a DA-PCG would be removed if that DA-PCG is withdrawn, and how would they know if the constraints have been withdrawn. The IESO responded that the constraints would be removed as soon as possible from the system, on a best effort basis, if the market participant withdraws from the day-ahead schedule. It is the market participants' responsibility to ensure that an intention to withdraw is communicated in a timely manner to allow for the constraints to be removed prior to the market participant attempting to operate under the real-time guarantee program.

In response to questions, the IESO clarified that in slide #10, the diagram indicates that the unit continues operation between guarantees such that it does not come offline or inject zero for at least one interval. If a unit comes offline (injects zero for at least one interval between guarantees), the RT-GCG and DA-PCG are treated as separate start events under current market rules.

Regarding cost submissions, the IESO asserted that where there is interaction between a RT-GCG and a DA-PCG, start-up costs will not be paid for the RT-GCG since they are considered under the DA-PCG. In this scenario, the IESO expects the start-up cost submission for the RT-GCG to be zero. If the market participant submits non-zero start-up costs for a RT-GCG claim, instead of zero, the entire RT-GCG claim will be rejected as opposed to rejecting only the start-up costs.

A MTWG member asked if an entry of zero is submitted into the portal RT-GCG online submission tool (formerly known as form 1551), will the tool accept this value? The IESO will confirm whether or not a number needs to be entered into the RT-GCG submission tool.

Editorial note:

The IESO will ensure that the online submission tool will accept "0" (zero) in the cost submission field. This field must not be left blank.

A MTWG member asked about IESO expectations for cost submissions if the RT-GCG overlaps a DA-PCG, but the DA-PCG is partially withdrawn. There was discussion around this issue, and the IESO took this away as action item requiring further response.

Editorial note:

Where a RT-GCG interacts with a DA-PCG that has partially withdrawn, but where the withdrawal is not within the generators control, the start-up cost submissions for the RT-GCG are expected to be zero since the costs are considered under the DA-PCG.

Where a RT-GCG interacts with a DA-PCG that has partially withdrawn, but where the withdrawal is within the generators control, such that the DA-PCG is not eligible, it is

acceptable to submit start-up costs under the RT-GCG, however as a guideline, these costs should be no greater than the comparable components of start-up costs submitted day-ahead for the DA-PCG, keeping in mind that the start-up costs for the DA-PCG would have included a ramp-down component which should not be submitted for a RT-GCG. This also applies to a RT-GCG coinciding with a fully withdrawn DA-PCG such that the RT-GCG start-up cost submissions should be reflective of the costs submitted day-ahead for the withdrawn DA-PCG. Costs submitted for a RT-GCG claim are auditable in accordance with section 2.2B.2 of Chapter 7.

Next Steps

The next meeting is proposed to be held on October 4th. The IESO will send out a meeting notice in advance of the meeting. MTWG members are encouraged to continue to use EDAC mailbox, i.e., edac@ieso.ca to communicate questions and issues. Defect status updates will be communicated as changes are made.

Wrap up and Adjourn

Action Item Summary

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#	Date	Action	Status	Comments
1	May 02, 2011	The MTWG is asked to review both the Stakeholder Engagement Plan and the Terms of Reference and provide commentary by May 10 th .	Closed	Comments were received from several MTWG members. As of May 12 the SE Plan and the ToR have been posted on SE 73 website with comments.
2	May 19, 2011	The EDAC Team will provide MPs with a list of known defects before going into Ability Testing. To be placed on the EDAC Portal before Ability Testing begins.	Closed	

Action Item Summary				
#	Date	Action	Status	Comments
3	May 19, 2011	The IESO will review how EELR submissions will be treated in the case of longer necessary DAOS run times	Closed	<p>Throughout the market trials we monitored the performance of DACE to determine if it takes more than an hour to publish results. At this time the results are not conclusive. There were instances when the DACP run completed in more than an hour and considering the nature of the testing environment and the various settings we had in place for trials we cannot conclude that we will see similar behaviour in production environment on a regular basis which would require changes to the EELR submission window.</p> <p>Update as of July 7, 2011: - the action item will remain open until enough data is accumulated to make an assessment. DAOS boundary conditions testing will be done throughout the week of July 11, 2011 by adjusting the market demands to reflect higher and lower demand scenarios.</p>
4	May 19, 2011	The IESO has requested that MPs review all operations test cases and indicate which test cases they are interesting in performing during Market Trials. They are asked to provide the EDAC team, via the EDAC e-mail box, a list of pertinent test cases by the end of May 2011.	Closed	

Action Item Summary				
#	Date	Action	Status	Comments
5	May 19, 2011	The IESO is to provide a listing of new/retired/replaced reports to MTWG members	Closed	
6	May 19, 2011	The IESO will post report descriptions on report site for each of the new DA reports	Closed	
7	June 30, 2011	The IESO will review the market trials schedule and determine if more time can be allocated to settlements market trials to accommodate testing of both Pus and PSUs.	Closed	Update as of July 7, 2011: - the MTWG agreed that the initial schedule for settlements trials (i.e., Jul 25 to Aug 12) is acceptable considering that the environment for settlements trials will be maintain available for unstructured testing until the end of Aug 2011. However, minimum assistance will be provided by the EDAC test team during the unstructured settlements trials period.

Action Item Summary				
#	Date	Action	Status	Comments
8	June 30, 2011	The IESO requested that MTWG members review the scenarios distributed for this meeting and identify additional scenarios they would like to test.	Closed	Update as of July 7, 2011: - several market participants provided written recommendations for additional scenarios. The IESO provided written responses to each market participant. The final conclusion was that the initially scenarios proposed by the IESO are sufficient to satisfy the objectives of the settlements trials as defined by the EDAC Market Trials Test Plan, v2.0 (for settlements). More than one market participant suggested the execution of all the scenarios twice for combined cycle plants, once for PSU and once for PU. The IESO explained that, from a charge type point of view, the execution of scenarios using the PSU is inclusive of the PU, the only difference is related to the DIPC calculation (which was covered by the IESO internal test cases). The MTWG members attending the meeting agreed with the IESO response.
9	June 30, 2011	IESO will send a list of known defects to MTWG members before the beginning of Market Trials. Settlements defects will be added to the existing Operations Defect Form.	Closed	Update as of July 7, 2011: - the IESO will publish the consolidated list of known defects to MTWG members by July 18, 2011.

Action Item Summary				
#	Date	Action	Status	Comments
10	June 30, 2011	MTWG members are to supply the IESO a list of nominated resources for testing. This list will be supplied in advance of the beginning of testing.	Closed	Update as of July 7, 2011: - the IESO received from several MTWG members the list of resources for testing during settlements trials. The IESO extended the deadline to July 18, 2011.
11	June 30, 2011	The IESO will revise the wording for exit criteria contained on the slide presented during the webcast.	Closed	Update as of July 7, 2011: - the revised exit criteria have been reviewed with the MTWG members during the July 7 th meeting while reviewing the revised 'Settlements Market Trials Test Plan' – v1.1. No new comments were received from the MTWG members - the revised wording was accepted as final.
12	July 7, 2011	MTWG to review and comment on EDAC Market Trials Test Plan v1.1 by Wednesday July 13, 2011	Closed	